LPCB Red Book

1

Part: 1

Fire detection and alarm products, systems & cables

bre

Last updated: 16 Nov 2023

Introduction

BRE Global Ltd, based in the UK near London, is an independent third party organisation offering certification of fire, security and sustainability products and services to an international market. LPCB is the certification brand used for fire and security products and services. The LPCB mark is accepted worldwide. We have representative offices in China, India and Dubai. We are owned by the BRE Trust, a not-for-profit organisation.

LPCB listings can be accessed, free of charge, at www.redbooklive.com.

BRE Global additionally carries out:

- Fire Investigation
- Fire Risk Assessment
- Fire Safety Engineering
- Research
- Training

LPCB Listings

Listings are given in sections which list related groups of products and services such as suppression, security and so on. Each section also summarises the technical basis for the certification of each product or service. The Red Book listings should always be used in conjunction with rules, regulations and design specifications required by the relevant Authority having jurisdiction.

Listings comprise:

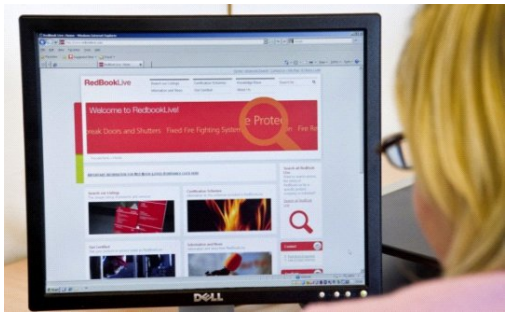
Volume 1: (This Volume)
- **Fire detection and alarm products, systems, and cables**
- **Manual fire extinguishing equipment**
- **Automatic sprinkler, water spray and deluge systems**
- **Fixed fire fighting products and systems**
- **Watermist systems**
- **Related installers**

Volume 2:
- Passive fire protection products
- Security protection products
- Fire doors and shutters
- Smoke and fire ventilation systems
- Security Assessments - SABRE
- Related installers
- Management Systems
- Construction products

Listings are given in the name of the manufacturer or service provider, in alphabetical order. They can be downloaded free of charge from our website at www.redbooklive.com

Updates

Certification of products and services are updated regularly. To ensure that you are using the most up to date information please refer to www.redbooklive.com.



What is Third Party Certification?

A frequent concern of stakeholders is in knowing whether a product will perform in accordance with the stated specifications. These concerns can involve such product attributes as safety, health or environmental impacts, durability, compatibility, suitability for intended purposes or for stated conditions, and other similar considerations. These issues can all be addressed through product certification.

Third party certification is a conformity assessment process, carried out by a body that is independent of both supplier and customer organisations. It provides confirmation that products and services have met and will continue to meet the requirements of specified standards and other normative documents.

LPCB third party product certification schemes are quality assurance schemes and comprise initial type testing and technical evaluation, assessment and surveillance of the manufacturer's quality system and factory production procedures, regular audit testing, labelling and listing.

Similarly, LPCB schemes for suppliers of services (installers) are also quality assurance schemes comprising a technical assessment of an installer's capability, assessment and surveillance of the installer's quality system and production procedures, regular inspection of completed installations and listing.

Benefits of Third Party Certification

For specifiers, regulators, insurers, manufacturers and installers, the benefits of an LPCB approval are:

For specifiers and regulators:

- Risk reduction - specifying LPCB approved products and services demonstrates due-diligence and best endeavour and mitigates against possible accusations of negligence.
- Avoidance of costly mistakes - you can trust LPCB approved products and services to conform each and every time.
- Time - using Red Book Live to search for and assess products and services can save you time.

For manufacturers and installers:

- Increased global sales - LPCB approval is recognised and specified widely throughout the world. In some territories LPCB approval is a mandatory requirement.
- Added value of the product or service - LPCB approved products and services are recognised as providing added value given their ability to conform each and every time.
- Reduced liability - LPCB approved products and services demonstrate due-diligence which can reduce liability for both you and your customers.

What does LPCB Certification offer?

LPCB certification is carried out against Loss Prevention Standards (LPS's). These LPS's include reference to BS, EN or ISO standards as appropriate. LPCB certification are level 5 schemes as detailed in ISO/ IEC 17067 with the added requirement to have a quality system certificated to ISO 9001.

The technical requirements of LPCB schemes are given in the Loss Prevention Standards (LPSs). These documents are drafted by LPCB technical experts in conjunction with appropriate external experts. They are then peer reviewed by representatives from trade bodies, regulators, insurers, specifiers, manufacturers and other suppliers. Finally these documents are approved for use by the BRE Global Governing Body; the Body that oversees all of the certification activities of BRE Global.

Product schemes comprise:

- Initial type testing and evaluation of product.
- Approval and surveillance of the manufacturer's (or supplier's) quality management system to ISO 9001
- Assessment and surveillance of the manufacturer's (or supplier) factory production control system (FPC).
- Periodic audit testing of the product from either the factory or marketplace.
- Labelling or marking as appropriate.
- Listing on Red Book Live

Installer schemes comprise:

- Technical assessment of the installation contractor's capability.
- Approval and surveillance of the contractor's quality management system to ISO 9001 or assessment against the requirements of the relevant Loss Prevention Standard where ISO 9001 is not appropriate.
- Regular surveillance inspections of on-going installations.
- The issue of Certificates of Conformity by the installer to demonstrate compliance for each installation.
- Listing in the Red Book.

The LPCB Mark - the Mark you can trust

After certification of a product or service the manufacturer or service provider may place the LPCB certification mark, as shown below, on the product, packaging and literature etc.

Where LPCB holds accreditation through the United Kingdom Accreditation Service (UKAS), the certified company may include the UKAS symbol (the Crown and Tick) alongside the LPCB mark for certain applications e.g. promotional literature or material and stationery, as shown below.

(Full details of LPCB accreditation can be found on the UKAS website at www.ukas.com)
Where for reasons of space or cost the use of the above full mark is not practical, then the following simplified mark may be applied directly to the product (for some schemes only). The LPCB scheme rules define how and where the marks can be used.

LPCB

CONTENTS

1 Fire detection and alarm products, systems & cables **1**
SECTION 1 LPS 1014 certified fire detection and alarm system firms 3
SECTION 2 Fire detection and alarm systems 16
SECTION 3 Control and indicating equipment 37
SECTION 4.1 Commercial detectors 250
SECTION 4.2 Domestic alarms - smoke, heat and carbon monoxide 493
SECTION 5 Manual call points 512
SECTION 6 Line units 554
SECTION 7 Alarm warning devices 600
SECTION 8.1 Fire resistant cables 799
SECTION 8.2 Fire retardant cables 905
SECTION 11 Power Supply Equipment - Standalone 906

4
4 Fire International ApS 493
A
Aarhus Fire Protection Limited 3
ABCA Systems Limited 3
ADI International 251
Adkinns Inc. 38, 251, 512, 554, 600
ADT Fire and Security 4
Advanced Electronics Limited 38, 252, 513, 555, 601
Advantronic Systems S.L. 255, 513, 555, 603
AEI Cables Limited 800
Agni Controls 258
Al Rayan Security & Safety Trading 41, 259, 514, 556, 604
Al Tahadi Security And Safety Equipment Trading 494, 514, 605, 804
Alberta Fire & Security Equipment Limited 4
Alfanar 804
Ambest Electronics (Ningbo) Co Ltd T/A Numens 494, 605
Ampac Pty Ltd 42, 260, 514, 556, 605
Apollo Fire Detectors Limited 265, 515, 558, 606
Application Solutions (Safety and Security) Ltd, East Sussex, United Kingdom 49
Aras Security B.V 53
Argus Fire Protection Company Limited 4
Argus Security S.r.l. 278, 517, 559, 614
Armor Safety & Security Ltd 283, 517, 616
ASENWARE LTD 53, 285, 518, 560, 618
ASI Oy Ltd 286, 518, 561, 619
ATEIS Middle East FZCO 288, 518, 562, 621
Autronica Fire & Security AS 562
B
B3 International S.R.L. 806
Bahra Cables Company 806
Bahri & Mazroei Technical Systems Co. LLC 810
Baldwin Boxall Communications Ltd 54
Basoglu Kablo ve Profil Sanayi Ticaret A.S. 811
Beijing Leader Huaxin Electronics Co. Ltd 563, 622
Beijing VSAIL Fire Protection Equipment Co Ltd 54
Belden Wire & Cable B. V. 812
Bharat Fire Fighting PVT Ltd 55, 290, 519, 563, 623
Biamp Systems LLC 56
Bilgi Elektronik 290
Bosch Security Systems BV 56
Brilliant Lighting Limited 623
Bristol Fire Engineering LLC56, 291, 519, 563, 624
British Cables Company 813
Burn Cable Management Systems (B. C. M. S. Sarl) 813
C
CAMS Fire & Security PLC 4
Carrier Fire & Security BV 58, 293, 519
Cavicel SpA 814
Ceasefire Industries Private Ltd 88, 297, 520, 564, 625
Ceasefire Industries Pvt. Ltd 521
Channel Fire Systems Limited 4
Channel Safety Systems Ltd 90
Chubb Fire & Security Ltd 301
Chubb Fire & Security Ltd t/a Chubb Mechanical 4
Chubb Fire and Security Limited trading as Vipond Fire Protection 5
Cleveland Cable Company 816
Clymac Limited 5
Comelit Group S.p.a 91
Commercial Fire Systems Limited 5
Computionics Limited (Trading as C-Tec) 91, 302, 521, 564, 627
Consilium Marine and Safety AB 303
Context Plus Limited 303, 635
Context Plus Ltd 101, 304, 522, 565, 635, 816
Cooper Lighting and Safety Ltd 638
Cooper Sécurité SAS 306
Cranford Controls Limited 638
CTM Fire & Security Limited trading as Thompson Group Services 5
D
Daemon Fire and Security Limited 5
Dalkia Scotshield Limited 6
DAS Fire Limited 6
Dätwyler IT Infra AG 817
DEF 566, 639
DEF .. 104
DEF. 105
DEF.. 308, 523, 566
Defensor Maintenance Limited trading as Defensor Life Safety Systems 6
Demco Industries Sdn. Bhd. 495
Detect Fire LLC 310, 523
Detectomat Systems GmbH 640
Detectomat Systems GmbH. 107, 566
Detectomat Systems GmbH.. 310, 523, 567
Detector Electronics Corporation 312
Digital Security Controls, a Division of Tyco Safety Products Canada Ltd 496
Direction Fire Limited 6
Doha Cables 818
Doncaster Cables 820
Draka (Malaysia) Sdn. Bhd. 821
Draka UK Limited 822
Dubai Cable Company (Private) Limited, Trading as Ducab 825, 826, 829
E
EA-RS Fire Engineering Limited 6
Eaton Electrical Products Limited 108, 314, 524
Eaton Electrical Products Ltd 318
Eaton Electrical Systems Limited 114, 524, 641
Eaton MEDC Ltd 647
EDS Elektronik Destek San. Ve Tic. Ltd. Şti. 319
El Sewedy Cables 831
El Sewedy Cables - Egypt (Egytech Cables) 831
EL.MO. Spa 319
Elite Security Products (ESP) 126, 320, 525, 567, 648
ELSEWEDY Cables - KSA 832

EMCOR Group (UK) plc, EMCOR UK - Fire and Security 7
Emico Limited 7
Emirates Fire Fighting Equipment Factory L.L.C. (FIREX) 321, 525, 649
Equans Services Limited 7
Erse Kablo Sanayi Ticaret A.S. 833
Eurofyre Limited 321
Eurotech Fire Systems Limited 127, 322, 525, 567, 649
Everday Technology Co. Limited 326, 526
F
FARE 328
Federal Transformers Co. LLC 834
FFE Ltd 328
Fike Safety Technology Ltd 130, 329, 526, 569, 651
Finder Yangin Güvenlik Elektronik Sistemler A.Ş 331, 527, 569, 653
Finder Yangin Güvenlik Elektronik Sistemler A.Ş 131, 332, 527
Fire Design Solutions Limited 7
Fire Fighter CO Security and Safety Equipment Trading LLC 132, 334, 528, 569, 654
FireAngel Safety Technology Ltd 496
Fireguard Global Ltd. 654
Fireguard Safety Equipment Co Ltd 335, 528
Firelite by Honeywell (Pittway Systems Technology Group (Europe) Ltd) 336
Firesafe 133, 528, 835
Firetecnics Systems Limited 7
FIREX Protection System Technology Ltd 135, 337, 528, 570, 655
Frontier Safety Ltd UK 137, 339, 497, 529, 570, 656
G
G.B. Electronics Limited trading as GBE Converge 7
G4S Secure Solutions (UK) Limited trading as G4S Fire Security Systems (UK) 8
Gent By Honeywell (Novar Systems Ltd) 138, 341, 529, 571, 657
GEZE GmbH 356, 572
Giza Cable Industries 836
Global Fire Systems Limited trading as Global Fire & Security Systems 8
Guangdong Isafenest Co., Ltd 498
Gulf Alarm UK Limited 145, 357, 530, 572, 663
Gulf Cables & Electrical Industries Group Co. K.S.C.P. 839
Gulf Fire Vision Workshop Equipment Machinery & Spare parts Trading 840
Gulf Security Technology Co., Ltd. 145, 358, 530, 573, 663
H
Haes Technologies Limited 150
Hall & Kay Fire Services Limited trading as Hall & Kay Fire Engineering (Ascot) 8
Harmony Fire Limited 8
Havells India Limited 841
Helukabel GmbH 842
HESIS Limited 8
Hochiki America Corporation 360
Hochiki Corporation 16, 157, 361
Hochiki Europe (UK) Limited 20, 158, 361, 531, 573, 664
Honeywell 159, 575
Honeywell Analytics Inc. 374
Honeywell Automation (I) Pvt. Ltd 375
Honeywell Control Systems Limited 376, 575
Honeywell Control Systems Limited trading as Honeywell Building Solutions 8
Honeywell International (I) Pvt. Ltd. 531
Honeywell International (India) Pvt. Ltd. 378
Honeywell Life Safety Systems (Novar Systems Ltd) 383
Honeywell Morley-IAS by Honeywell International (I) Pvt. Ltd. 164, 384, 532, 576
Honeywell Products & Solutions Sàrl (Trading as System Sensor Europe) 388, 576, 685
Horing LIH Industrial Co Ltd 394, 500, 532, 697
Hosiden Besson Limited 697
Hyfire Wireless Fire Solutions Limited 396, 532, 578, 698
I
IC Service & Maintenance Limited 9
IKEA of Sweden AB 501
Indigo Systems Limited 9
INIM Electronics S.R.L 24, 166, 401, 533, 578
Integrated Fire Safety Systems Limited 9
IOT_FIRE 167, 402, 533
Italcond S.r.l. 842
J
Jaylow Supplies Ltd 843
Jeddah Cables Company 844
K
KAC Alarm Company Limited 534, 700
KEI Industries Ltd 845
Kentec Electronics Limited 25, 168, 403, 538, 710, 906
Ketton Power & Safety Ltd 407, 538, 579, 714
Keystone Electric Wire & Cable Company Ltd 846
Kingfisher Security (UK) Limited trading as Kingfisher Fire & Security 9
KME Italy SpA 848
KMW Systems S.R.L. 169, 407, 538, 579, 715
KOD ELEKTRONIK GÜVENLIK SISTEMLERI SANAYI VE TICARET LTD. STI 409
L
Labor Strauss Sicherungsanlagenbau GmbH 409, 539, 580, 715
Leigh Cables 849
Lichfield Fire & Safety Equipment Co. Ltd 411, 539, 580, 717
Lloret Fire & Security Limited 9
Lynch (I.E.I.) Limited 9
M
Mavili Elektronik Ticaret Ve Sanayi A.S. 171, 412, 540, 581, 717
Max Technologies S.A. 416

MCI-Draka Cable Co. Ltd 849, 905
MECE Fire & Security Limited 10
Mercury Engineering 10
MICC (Shanghai) Electric Co Ltd 850
Mineral Insulated Cable Co Ltd 851
Moflash Signalling Ltd. 722
Morley IAS by Honeywell 581
Morley-IAS by Honeywell, Pittway Tecnologica Srl 176, 416, 540, 582, 723
Multron Systems Pte Ltd 184, 419, 541, 583, 736
N
National Cables Industry 852
Newage Cables Pvt Ltd 854
Nexans Turkiye Endustri ve Ticaret A.S. 855
NG Bailey Limited (trading as NG Bailey Engineering Division) 10
Ningbo Haishu Tianyu Cables & Wire Co., Ltd 857
Ningbo Kingdun Electronic Industry Co Ltd 501
Ningbo Sentek Electronics Co. Ltd 505
Nittan Europe Limited 421
Norden Communication UK Ltd 858
Notifier by Honeywell 541, 583
Notifier by Honeywell, Pittway Tecnologica Srl 30, 184, 423, 541, 583, 736
Notifier Fire Systems India 427
NOTOFIRE PVT LTD 201, 428, 542, 584, 746
NSC Sicherheitstechnik GmbH 585
Nuhas Oman L.L.C 859
nVent Solutions (UK) Limited 860
O
OLYMPIC CABLE COMPANY SDN. BHD. 861
Oman Cables Industry (SAOG) 862
P
Paradox Hellas S.A 202
Paramount Communications Limited 866
PHF Fire Limited 10
POLON-ALFA S.A. 429
Pony Cables 867
Protec Fire Detection plc 11
Prysmian Cables & Systems Limited 868, 872
PT.Servvo Fire Indonesia 203, 429, 543, 585, 746
PYRONEX ELECTRICAL EQUIPMENT TRADING 873
Pyrotec Fire Protection Limited 11
Q
Qatar International Cables Company (QICC - Nexans) 874
R
Rafic Gazzaoui & Co S. A. L. 875
RAMCRO S.p.A. 876
Rapidsense Safety Technology Private Limited 430
Ravel Electronics Pvt Ltd. 430
Reed M & E Limited 11
REV Ritter GmbH 506
Rezontech Co., Ltd. 431
Riyadh Cables Group 878
S
Safe Detection 431
Safety Technology International Limited 543
Schneider Electric Fire & Security Oy 432, 543, 586
Securi-flex Limited 880
Senseco Systems Limited 11
Sensetech Systems Limited 12
Sentura Group Ltd. (including Fire Depot and Firechief Global) 506
Shakun Polymers Private Limited 881
Shanghai Huiying Industry Co Ltd 506
Shenzhen Heiman Technology Co Ltd 436, 507
Shenzhen HTI Sanjiang Electronics CO., Ltd 203, 437, 507, 544, 587, 747
Shenzhen Lilutong Technology Industry Co Ltd 881
Shield Fire, Safety & Security Ltd 204, 544, 587, 748, 882
SHIELD FIRE, SAFETY AND SECURITY LIMITED 438, 544, 588, 748, 883
SHIELD FIRE, SAFETY AND SECURITY LTD 205, 545, 588, 749, 884
Siemens Plc, Smart Infrastructure (Regional Solutions & Service) 12
Siemens Switzerland Ltd 30, 208, 440, 545, 589, 749
Siterwell Electronics CO., Limited 508
SMS (Novar Systems Ltd) 218, 449, 547, 591, 762
SOUTHERN CABLE SDN. BHD. 884
Spectrum Fire Protection (UK) Limited 12
Spence Refit Ltd 12
Static Systems Group Limited 12
Studer Cables AG 885, 905
Synaps Technology Srl 547
Syncoln Ltd 219, 455, 548, 591, 766
T
T V F (UK) Limited 12
Tai Sin Electric Limited 890
Tanda (UK) Limited 220, 456, 548, 592, 766
Tanda Development Pte Ltd 220, 457, 548, 592, 767
Tanda Technologies (Singapore) Pte Ltd 458
TClarke Contracting Limited 13
TecniKabel S.p.A. 891
Tecnoalarm S.r.l. 459, 593, 767
Tekab Co. LLC 894
Teksfera Mechanical and Engineering Trading LLC 895
TELE-FONIKA kable S.A. 895
Teletek Electronics JSC 221, 460, 549, 593, 769
Tew Plus Limited trading as LB Foster Specialist Services 13
Texecom Ltd 769
Thameside Fire Protection Co. Limited 13
Thorn Security Limited, trading as Tyco Safety Products 549
Tianjin Pro Made Fire Equipment Company Limited 896
Tianjin VSAIL Intelligent Fire Technology Co Ltd 461, 549, 594, 774
Tri Management Limited 13
Trinity Fire & Security Systems Limited 13

Trinity Fire and Security Systems Ltd (Abingdon) 13
Trinity Fire and Security Systems Ltd (Diseworth) 14
Turk Prysmian Kablo ve Sistemleri A.S. 896
Tyco Fire & Security GmbH 31, 222, 462, 550, 594, 775
Tyco Fire and Integrated Solutions (the trading company for Tyco Fire and Integrated Solutions (UK) Limited and Tyco Fire and Integrated Solutions (Ireland) Limited) 14
U
Union Cable Company Ltd 898
V
Ventcroft Limited 899
V-GREAT GLOBAL CORPORATION 239, 472, 508, 551, 595, 790
Vighnaharta Technologies Pvt Ltd. 473, 596
Vimpex Limited 596, 790
Visonic 509
VIVA ELEKTRONIK SISTEMLER 240, 473, 551, 596, 791
VRTL (Holdings) Limited trading as Grainger Fire & Security 14
W
Wagner Group GmbH 474
Walsin Lihwa Corporation 900
Walter Kidde Portable Equipment Inc. (Trading as Edwards, A Carrier Company) 241, 476, 551, 597, 792
Watania For Advanced Systems 795
Wizmart Technology Inc. 479, 509
Wrexham Mineral Cables 903
X
Xtralis Pty Limited 482
Y
Yilu Wire and Cable Tchnology Co., Ltd 904
Yingkou Tiancheng Fire Protection Equipment Co., Ltd 243, 489, 552, 599, 795
Z
Zeta Alarms Limited 244, 489, 510, 552, 796
Zhejiang Tianjie Industrial Corp. 904
Zhongshan Guta Fire Equipment Technology Co., Ltd 247, 491, 553
Zone Systems Limited 15

Part 1

FIRE DETECTION AND ALARM PRODUCTS, SYSTEMS & CABLES

PART 1: FIRE DETECTION AND ALARM PRODUCTS, SYSTEMS & CABLES

INTRODUCTION

A working fire detection and alarm system will increase the level of safety in a building by automatically warning occupants of fire before they would otherwise detect it.

To ensure the system works, the system must be designed correctly, products must be correctly selected and the systems must be correctly installed and maintained. It is recommended that all systems are designed, installed, commissioned and maintained by contractors who are approved by LPCB to LPS 1014 and that they are connected to Alarm Receiving Centres approved to LPS 1020.

Listings in this section include:

Products

- Control and indicating equipment including voice alarm and power supplies
- Wireless, flame, beam, aspirating, smoke, heat and multi-sensor detectors
- Manual call points
- Line units including input and output devices
- Alarm warning devices including visual alarms, loudspeakers and sounders
- Cables
- Alarm transmission equipment
- Signalling systems

Products are approved in accordance with a range of standards. The details of these standards are given at the front of each section relevant to the product. Some of the above products may be hard wired or wireless (Radio link). Wireless products should also be approved to EN 54-25.

Systems

Fire detection and alarm systems are approved for system compatibility in accordance with:

- *LPS 1054: Requirements and testing procedures for the approval and listing of component compatibility for fire detection and alarm systems.*
- *EN 54-13: Compatibility assessment for system components.*

Design, installation, commissioning and maintenance contractors

Contractors are approved in accordance with:

- *LPS 1014: Requirements for certificated fire detection and alarm system firms.*
- *LPS 1020: Alarm Receiving Centres*

WHY USE AN LPS 1014 APPROVED COMPANY?

Even with the best equipment, fire detection and alarm systems are only effective if correctly designed, installed, commissioned and serviced. It is therefore important that specifiers select only competent firms with a proven track record to undertake the work.

LPS 1014 *Requirements for Certificated Fire Detection and Alarm System Firms* meets these requirements in full.

LPS 1014 requires **one** encompassing Certificate of Conformity for the project, i.e. single point responsibility, which benefits all parties concerned, i.e. the insurer, the fire brigade, the building owner, etc. It is based on BS 5839-1 and also requires the use of third party approved products. For each system specifiers should request the issue of an LPCB Certificate of Conformity as part of the contract which:

- certifies that the fire detection and alarm system was designed, installed and commissioned in accordance with the installation rules applied, and
- ensures that the system is recorded by LPCB as a certificated fire detection and alarm installation.

The availability of more varied and sophisticated fire detection and alarm equipment means that it is even more important that firms listed to LPS 1014 are regularly assessed by LPCB for their competence to design, install, commission and service fire detection and alarm systems in accordance with acceptable installation rules or codes of practice.

Additional offices

Where a firm has additional offices, each office must meet the requirements of LPS 1014 to be eligible for certification, and is separately listed.

Provisional Approval

Firms with limited experience and track record can gain Provisional Approval in the LPS 1014 scheme. Their work is closely monitored by LPCB and when they have completed the requisite number of fire detection and alarm systems contracts over a period of not less than 2 years, and subject to satisfactory performance, they will be given full approval and listed in this section of the Red Book.

Aarhus Fire Protection Limited

Aarhus House, 4 Moss Lane, Whitefield, Manchester M45 6HG, United Kingdom
Tel: +44 (0)161 767 8715 • Fax: +44 (0)161 767 8716
E-mail: response@aarhusfire.co.uk • Website: www.aarhusfire.co.uk

Certificate No. CFA-187 to LPS 1014

ABCA Systems Limited

Unit 24, Mylord Crescent, Camperdown Industrial Estate, Killingworth, Tyne & Wear NE12 5UJ, United Kingdom
Tel: +44 (0)333 121 0999
E-mail: philip.miller@abcasystems.co.uk

Certificate No. CFA-206 to LPS 1014

Includes the following scope:
BS 8629 - Evacuation alert control & indicating equipment

ADT Fire and Security
Tyco Park, Grimshaw Lane, Newton Heath, Manchester M40 2WL, United Kingdom
Tel: +44 (0)161 252 5500 • Fax: +44 (0)161 252 5688

Certificate No. CFA-109 to LPS 1014

Alberta Fire & Security Equipment Limited
Zone 3, Triq San Gwakkin, Central Business District, Birkirkara CBD 3030, Malta
Tel: +356 21 443538 • Fax: +356 21 484077
E-mail: enquiries@alberta.com.mt • Website: www.alberta.com.mt

Certificate No. CFA-177 to LPS 1014

Argus Fire Protection Company Limited
Hendglade House, 46 New Road, Stourbridge, West Midlands DY8 1PA, United Kingdom
Tel: +44 (0)1384 376256 • Fax: +44 (0)1384 393955
E-mail: info@argusfire.co.uk • Website: www.argusfire.co.uk

Certificate No. CFA-148 to LPS 1014

CAMS Fire & Security PLC
6 Wedgwood Court, Wedgwood Way, Pin Green Industrial Area, Stevenage, Hertfordshire SG1 4QR, United Kingdom
Tel: +44 (0)1438 740840 • Fax: +44 (0)1438 737969
E-mail: info@camsfire.co.uk / info@camssecurity.co.uk • Website: www.camssecurity.co.uk/

Certificate No. CFA-190 to LPS1014

Channel Fire Systems Limited
OFFICE 11, Romney Marsh Business Hub, Mountfield Road, New Romney, Kent TN28 8LH, United Kingdom
Tel: +44 (0)1797 335050
E-mail: info@channelfs.com • Website: www.channelfs.com

Certificate No. CFA-201 to LPS 1014

Chubb Fire & Security Ltd t/a Chubb Mechanical
Chubb House, Shadsworth Road, Blackburn, Lancashire BB1 2PR, United Kingdom
Tel: +44 (0)1254 298706 / 298472
E-mail: qehs@chubb.co.uk • Website: www.chubb.co.uk

Certificate No. CFA-193 to LPS 1014

Chubb Fire and Security Limited trading as Vipond Fire Protection

10-12 Glenfield Road, Kelvin Industrial Estate, East Kilbride, Lanarkshire G75 0RA, United Kingdom
Tel: +44 (0)1355 2375 25/80/88 • Fax: +44 (0)1355 263399
E-mail: admin.uk@vipondltd.co.uk • Website: www.vipondfire.co.uk

Certificate No. CFA-173 to LPS 1014

Clymac Limited

Cloudway Court, Belton Road, Loughborough LE11 1LW, United Kingdom
Tel: +44 (0)1509 232651 • Fax: +44 (0)1509 232665
E-mail: sales@clymac.co.uk • Website: www.clymac.co.uk

Certificate No. CFA-221 to LPS 1014

Commercial Fire Systems Limited

Groud Floor Piercy Works, Piercy Road, Waterfoot, Rossendale, Lancashire BB4 9JW, United Kingdom
Tel: +44 (0)3331 880 950
E-mail: info@commercialfire-systems.co.uk • Website: www.commercialfire-systems.co.uk

Certificate No. CFA-216 to LPS 1014

CTM Fire & Security Limited trading as Thompson Group Services

Unit 2, Osprey Place, Moss Side Industrial Estate, Leyland PR26 7EW, United Kingdom
Tel: +44 (0)1772 641226 • Fax: +44 (0)1772 641227
E-mail: info@thompsongroupservices.com • Website: www.thompsongroupservices.com

Certificate No. CFA-156 to LPS 1014

Daemon Fire and Security Limited

Units 1 & 2 Quartz Close, B5K Business Park, Tamworth, Staffordshire B77 4GR, United Kingdom
Tel: +44 (0)1827 69266
E-mail: sales@daemonfire.co.uk

Certificate No. CFA-145 to LPS 1014

Dalkia Scotshield Limited

1 Rutherglen Links, Rutherglen Links Business Park, Glasgow G73 1DF, United Kingdom
Tel: +44 (0)141 729 8383
E-mail: jim.martin@spie.com • Website: www.spieuk.com

Including the following satellite offices for service work only
9 Sentry Lane, Mallusk, Newtownabbey, County Antrim, Northern Ireland BT36 4XX, Ireland
Tel: +44 (0)2895 906 090

Leven House, Unit 10 Lochside Place, Edinburgh Park, South Gyle, Edinburgh EH12 9RG
Tel: +44 (0)131 378 5222

Venus Building, 1 Old Park Lane, Stretford, Manchester M41 7HA
Tel: +44(0)161 529 9300

Certificate No. CFA-150 to LPS 1014

DAS Fire Limited

Unit 13 Campbell Court, Bramley, Tadley, Hampshire RG26 5EG, United Kingdom
Tel: +44 (0)845 544 2316
E-mail: info@dasfire.com • Website: www.dasfire.com

Certificate No. CFA-207 to LPS 1014

Defensor Maintenance Limited trading as Defensor Life Safety Systems

Defensor House, 15 Kingsley Street, Leicester LE2 6DY, United Kingdom
Tel: +44 (0)116 244 8689 • Fax: +44 (0)116 244 8884
E-mail: G.McCartney@defensorlifesafety.com

Certificate No. CFA-161 to LPS 1014

Direction Fire Limited

Unit 5, Fire Quarter, Blenheim Road, Epsom, Surrey KT19 9QN, United Kingdom
Tel: +44 (0)1372 744499
E-mail: general@directionfire.co.uk • Website: www.directionfire.co.uk

Certificate No. CFA-178 to LPS 1014

EA-RS Fire Engineering Limited

4 Swanbridge Industrial Park, Black Croft Road, Witham, Essex CM8 3YN, United Kingdom
Tel: +44 (0)1376 503680
E-mail: onesolution@ea-rsfire.com • Website: www.ea-rsfire.com

Certificate No. CFA-182 to LPS 1014

EMCOR Group (UK) plc, EMCOR UK - Fire and Security
Premier House, Tollgate, Eastleigh, Hampshire SO53 3YE, United Kingdom
Tel: 0800 085 4659 • Fax: +44 (0)2380 648191
E-mail: F&S@emcoruk.com • Website: www.emcoruk.com

Certificate No. CFA-151 to LPS 1014

Emico Limited
Innovation House, 39 Mark Road, Hemel Hempstead, Hertfordshire HP2 7DN, United Kingdom
Tel: +44 (0)1442 213111 • Fax: +44 (0)1442 236945
E-mail: contact@emico.co • Website: www.emico.co

Certificate No. CFA-185 to LPS 1014

Equans Services Limited
20th Floor, 25 Canada Square, Canary Wharf, London E14 5LB, United Kingdom
Tel: +44 (0)20 7320 8600
E-mail: jordan.obrien@equans.com

Certificate No. CFA-205 to LPS 1014

Fire Design Solutions Limited
152-154 London Road, Greenhithe, Dartford, Kent DA9 9JW, United Kingdom
Tel: +44 (0)1322 387411 • Fax: +44 (0)1322 386361
E-mail: estimating@fdsuk.com • Website: www.firedesignsolutions.com

Certificate No. CFA-213 to LPS 1014

Firetecnics Systems Limited
Firetecnics House, 328 St James's Road, London SE1 5JX, United Kingdom
Tel: +44 (0) 20 7587 0927 • Fax: +44 (0) 20 7740 3567
E-mail: info@firetecnics.co.uk • Website: www.firetecnics.com

Certificate No. CFA-146 to LPS 1014

G.B. Electronics Limited trading as GBE Converge
GBEC House, 31 Barnett Way, Barnwood, Gloucester GL4 3RT, United Kingdom
Tel: +44 (0)8451 220884 • Fax: +44 (0)845 1220885
E-mail: info@gbeconverge.com • Website: www.gbeconverge.com

Certificate No. CFA-180 to LPS 1014

G4S Secure Solutions (UK) Limited trading as G4S Fire Security Systems (UK)

12 Heron View, Airport Road West, Belfast BT3 9LN, Ireland
Tel: +44 (0)844 811 0016
E-mail: firesecurityenquiries@g4s.com • Website: www.g4s.com

Certificate No. CFA-220 to LPS 1014

Global Fire Systems Limited trading as Global Fire & Security Systems

15 The Triangle, NG2 Business Park, Queens Drive, Nottingham NG2 1AE, United Kingdom
Tel: +44 (0)870 220 8211 • Fax: +44 (0)115 943 8999
E-mail: g.shillingford@globalfireandsecurity.co.uk • Website: www.globalfireandsecurity.co.uk

Certificate No. CFA-189 to LPS 1014

Hall & Kay Fire Services Limited trading as Hall & Kay Fire Engineering (Ascot)

Unit E - Science Park, Silwood Business Park, Ascot, Berkshire SL5 7PW, United Kingdom
Tel: +44 (0)1344 203800 • Fax: +44 (0)1344 203801
E-mail: MatthewC.Jones@hkfire.co.uk • Website: www.hkfire.co.uk

Certificate No. CFA-147 to LPS 1014

Harmony Fire Limited

Clarence House, Watercombe Lane, Lynx Trading Estate, Yeovil, Somerset BA20 2SU, United Kingdom
Tel: +44 (0)1963 361250
E-mail: info@harmonyfire.co.uk • Website: www.harmonyfire.co.uk

Certificate No. CFA-211 to LPS 1014

HESIS Limited

Spinnaker House, 141 Sefton Street, Liverpool, Merseyside L8 5SN, United Kingdom
Tel: +44 (0)151 707 3222
E-mail: info@hesis.co.uk • Website: www.hesis.co.uk

Certificate No. CFA-218 to LPS 1014

Honeywell Control Systems Limited trading as Honeywell Building Solutions

Honeywell House, Skimped Hill Lane, Bracknell, Berkshire RG12 1EB, United Kingdom
Tel: +44 (0)1344 656000
E-mail: cfserviceadminfire@honeywell.com • Website: www.honeywell.com

Certificate No. CFA-214 to LPS 1014

IC Service & Maintenance Limited
Unit K3 Temple Court, Knights Park, Knight Road, Strood, Kent ME2 2LT, United Kingdom
Tel: +44 (0)1634 290300 • Fax: +44 (0)1634 290700
E-mail: sales@icservice.uk.com • Website: www.icservice.uk.com

Certificate No. CFA-158 to LPS 1014

Indigo Systems Limited
2A Croham Road, South Croydon, Surrey CR2 7BA, United Kingdom
Tel: +44 (0)208 681 1616
E-mail: lee@indigosystems.ltd.uk • Website: www.indigosystems.ltd.uk

Certificate No. CFA-203 to LPS 1014

Integrated Fire Safety Systems Limited
26 Nightingale Crescent, Leatherhead, Surrey KT24 6PD, United Kingdom
Tel: +44 (0)1483 673173
E-mail: info@IFSSystems.co.uk • Website: www.ifssystems.co.uk

Certificate No. CFA-212 to LPS 1014

Kingfisher Security (UK) Limited trading as Kingfisher Fire & Security
1 Riverside Industrial Estate, Dogflud Way, Farnham GU9 7UG, United Kingdom
Tel: +44 (0)1252 710809 • Fax: +44 (0)1252 710816
E-mail: info@kingfishersecurity.co.uk • Website: www.kingfishersecurity.co.uk

Certificate No. CFA-176 to LPS 1014

Lloret Fire & Security Limited
Lloret House, Ullswater Crescent, Coulsdon, Surrey CR5 2HR, United Kingdom
Tel: +44 (0) 208 410 4600 • Fax: +44 (0) 208 668 9141
E-mail: info@lloret.co.uk • Website: www.lloret.co.uk

Certificate No. CFA-181 to LPS 1014

Lynch (I.E.I.) Limited
1 Barnet Hill, Barnet, Hertfordshire EN5 5YS, United Kingdom
Tel: +44 (0) 208 449 1105
E-mail: Andy.tang@lynchiei.com • Website: www.lynchiei.com

Certificate No. CFA-210 to LPS 1014

MECE Fire & Security Limited

Unit 12 Rochester Trade Park, Maidstone Road, Rochester, Kent ME1 3QY, United Kingdom
Tel: +44 (0)1634 260607 • Fax: +44 (0)1634 260278
E-mail: enquiries@mecefireandsecurity.co.uk • Website: www.mecefireandsecurity.co.uk

Certificate No. CFA-159 to LPS 1014

Mercury Engineering

Mercury House, Sandyford Industrial Estate, Foxrock, Dublin 18 D18 XH79, Ireland
Tel: +353 1 216 3000 • Fax: +353 1 216 3006
E-mail: fireprotection@mercuryeng.com • Website: www.mercuryeng.com

Certificate No. CFA-174 to LPS 1014

NG Bailey Limited (trading as NG Bailey Engineering Division)

7 Brown Lane West, Leeds LS12 6EH, United Kingdom
Tel: +44 (0)113 234 3443 • Fax: +44 (0)113 222 3925
E-mail: Michael.Geeson@ngbailey.co.uk • Website: www.ngbailey.com

Certificate No. CFA-165 to LPS 1014

PHF Fire Limited

Unit 16, Twyford Business Centre, London Road, Bishops Stortford, Hertfordshire CM23 3YT, United Kingdom
Tel: +44 (0)1279 659125
E-mail: paul@phffire.com • Website: www.phffire.com

Certificate No. CFA-208 to LPS 1014

Protec Fire Detection plc

Protec House, Churchill Way, Nelson, Lancashire BB9 6RT, United Kingdom
Tel: +44 (0)1282 717171 • Fax: +44 (0)1282 717273
E-mail: sales@protec.co.uk • Website: www.protec.co.uk

Including the following satellite offices:
Unit 4, White Oak Square, London Road, Swanley, Kent BB8 1AG, United Kingdom
Tel: +44 (0)845 456 5394 • Fax: +44 (0)845 456 5395

Unit 10, Fulcram 4, Solent Way, Whiteley, Fareham, Hampshire PO15 7FT, United Kingdom
Tel: +44 (0)845 456 5392 • Fax: +44 (0)845 456 5393

5 Morston Court, Blakeney Way, Kingswood Lakeside, Cannock, Staffordshire WS11 8JB, United Kingdom
Tel: +44 (0845 456 5398 • Fax: +44 (0845 456 5399

Unit 1, Ashfield Court, Whitehall Road, Leeds LS12 5JB, United Kingdom
Tel: +44 (0)845 456 53388 • Fax: +44 (0)845 456 53389

Certificate No. CFA-132 to LPS 1014

Pyrotec Fire Protection Limited

Unit 8, Caburn Enterprise Park, The Broyle, Ringmer, East Sussex BN8 5NP, United Kingdom
Tel: +44 (0)1273 812376
E-mail: sales@pyrotec.co.uk • Website: www.pyrotec.co.uk

Certificate No. CFA-202 to LPS 1014

Reed M & E Limited

M & E House, 135 Red Lion Road, Surbiton, Surrey KT6 7RQ, United Kingdom
Tel: +44 (0)20 8397 2161 • Fax: +44 (0)20 8974 1542
E-mail: robert@reedme.org.uk • Website: www.reedme.org.uk

Certificate No. CFA-196 to LPS 1014

Senseco Systems Limited

6 Ambley Green, Bailey Drive, Gillingham Business Park, Gillingham, Kent ME8 0NJ, United Kingdom
Tel: +44 (0)845 644 2888 • Fax: +44 (0)845 644 2899
E-mail: sales@sensecosystems.com • Website: www.sensecosystems.com

Certificate No. CFA-198 to LPS 1014

Sensetech Systems Limited
Langdale House, 11 Marshalsea Road, London SE1 1EN, United Kingdom
Tel: +44 (0)845 689 9099 • Fax: +44 (0)207 8633238
E-mail: info@sensetechsystems.co.uk • Website: www.sensetechsystems.co.uk

Certificate No. CFA-184 to LPS 1014

Siemens Plc, Smart Infrastructure (Regional Solutions & Service)
Pinehurt 2, Pinehurt Road, Farnborough, Hampshire GU14 7BF, United Kingdom
Tel: +44 (0)1276 696111 • Fax: +44 (0)1276 696133
E-mail: sales.uk.sbt@siemens.com • Website: www.siemens.co.uk/buildingtechnologies

Certificate No. CFA-100 to LPS 1014

Spectrum Fire Protection (UK) Limited
Middlemore Lane, Aldridge, Walsall, West Midlands WS9 8SP, United Kingdom
E-mail: enquiries@spectrumfire.co.uk • Website: www.spectrumfire.co.uk

Certificate No. CFA-217 to LPS 1014

Spence Refit Ltd
MacMillan House, Paddington Station, London W2 1FT, United Kingdom
Tel: 0207 387 1268
E-mail: Nick.Moore@spenceltd.co.uk • Website: www.spenceltd.co.uk

Certificate No. CFA-219 to LPS 1014

Static Systems Group Limited
Heath Mill Road, Wombourne, Staffordshire WV5 8AN, United Kingdom
Tel: +44 (0)1902 895551
E-mail: QA@staticsystems.co.uk • Website: www.staticsystems.co.uk

Certificate No. CFA-135 to LPS 1014

T V F (UK) Limited
59-69 Queens Road, High Wycombe, Buckinghamshire HP13 6AH, United Kingdom
Tel: +44 (0)1494 450641 • Fax: +44 (0)1494 465378
E-mail: customer.service@tvfltd.co.uk • Website: www.tvfltd.co.uk

Certificate No. CFA-128 to LPS 1014

TClarke Contracting Limited
Level 2, 30 St Mary Axe, London EC2A 8BF, United Kingdom
Tel: +44 (0)207 997 7400 • Fax: +44 (0)207 997 7405
E-mail: info@tclarke.co.uk • Website: www.tclarke.co.uk

Certificate No. CFA-188 to LPS 1014

Tew Plus Limited trading as LB Foster Specialist Services
Kings Cross HQ, 2nd Floor, Grays Inn Road, London WC1X 8BP, United Kingdom
Tel: +44 (0)203 995 5055
E-mail: Dstark-ext@lbfoster.com • Website: www.lbfoster.eu/en/telecoms

Certificate No. CFA-215 to LPS 1014

Thameside Fire Protection Co. Limited
Unit 4, Sovereign Park, Cranes Farm Road, Basildon, Essex SS14 3JD, United Kingdom
Tel: +44 (0)1268 597999 • Fax: +44 (0)1268 597998
E-mail: darko.petrovic@thamesidefire.co.uk • Website: www.thamesidefire.co.uk

Certificate No. CFA-171 to LPS 1014

Tri Management Limited
4 Park Parade, Park Road, Farnham Royal, Buckinghamshire SL2 3AU, United Kingdom
Tel: +44 (0)8443 350187 • Fax: +44 (0)1753 648647
E-mail: info@triman.co.uk • Website: www.triman.co.uk

Certificate No. CFA-204 to LPS 1014

Trinity Fire & Security Systems Limited
Little Bridge Business Park, Oil Mill Lane, Clyst St Mary, Exeter, Devon EX5 1AU, United Kingdom
Tel: +44 (0)1392 874455 • Fax: +44 (0)1392 875546
E-mail: info@trinitypro.co.uk • Website: www.trinityfireandsecurity.com

Certificate No. CFA-160 to LPS 1014

Trinity Fire and Security Systems Ltd (Abingdon)
Central Hub, 9E Nuffield Trade Park, Nuffield Way, Abingdon, Oxfordshire OX14 1RN, United Kingdom
Tel: +44 (0)1235 862456 • Fax: +44 (0)1235 834450
E-mail: info@trinitypro.co.uk • Website: www.trinityfireandsecurity.com

Certificate No. CFA-168 to LPS 1014

Trinity Fire and Security Systems Ltd (Diseworth)
West Acre, The Walnut Yard, Gelscoe Lane, Diseworth, Derbyshire DE74 2AN, United Kingdom
Tel: +44 (0)1926 485080 • Fax: +44 (0)1926 485090
E-mail: info@trinitypro.co.uk • Website: www.trinityfireandsecurity.com

Certificate No. CFA-167 to LPS 1014

Tyco Fire and Integrated Solutions (the trading company for Tyco Fire and Integrated Solutions (UK) Limited and Tyco Fire and Integrated Solutions (Ireland) Limited)
Building 8, Quinton Business Park, Birmingham, West Midlands B32 1AF, United Kingdom
Tel: +44 (0)121 255 6000 • Fax: +44 (0)121 255 6100
Website: www.tycofis.com

Certificate No. CFA-103 to LPS 1014

Tyco Fire and Integrated Solutions (the trading company for Tyco Fire and Integrated Solutions (UK) Limited and Tyco Fire and Integrated Solutions (Ireland) Limited)
180 Aztec West, Almondsbury, Bristol BS32 4TU, United Kingdom
Tel: +44 (0)1454 240071 • Fax: +44 (0)1454 626443
Website: www.tycofis.com

Certificate No. CFA-170 to LPS 1014

Tyco Fire and Integrated Solutions (the trading company for Tyco Fire and Integrated Solutions (UK) Limited and Tyco Fire and Integrated Solutions (Ireland) Limited)
Security House, The Summit, Hanworth Road, Sunbury on Thames, Middlesex TW16 5DB, United Kingdom
Tel: +44 (0)1753 574111 • Fax: +44 (0)1753 824226
Website: www.tycofis.com

Certificate No. CFA-157 to LPS 1014

VRTL (Holdings) Limited trading as Grainger Fire & Security
Unit 1A Newton Court, Wavertree Technology Park, Liverpool L13 1EJ, United Kingdom
Tel: +44 (0)151 220 4068
E-mail: enquiries@grainger-fire.co.uk

Certificate No. CFA-125 to LPS 1014

Zone Systems Limited
Global House, 60 Westcliffe Road, Ruskington, Lincolnshire NG34 9AY, United Kingdom
Tel: +44 (0)1526 833999 • Fax: +44 (0)1526 833888
E-mail: sales@zonesystems.co.uk • Website: www.zonesystems.co.uk

Certificate No. CFA-194 to LPS 1014

A fire detection and fire alarm system is typically made up of a number of inter-linked components including detectors, manual call points, and alarm sounders connected to control and indicating equipment by means of one or more transmission paths. All system components, including the control and indicating equipment are also connected to a power supply directly or indirectly.

A fire detection and alarm system may be linked to other systems such as fire protection, or building management systems. These other systems are not considered as part of the fire detection and alarm systems.

The fire detection and alarm systems may be networked together.

Each of the components that constitute the fire detection and alarm system may be individually tested and approved against their appropriate standard to demonstrate their own performance and reliability but in order to ensure their compatibility and performance together within the system, certain system tests and requirements must be fulfilled.

The system standard specifies the requirements for compatibility and connectability assessment of system components that either comply with the requirements of EN 54 and/or with a manufacturer's specification. The standard also includes requirements for the integrity of the fire detection and fire alarm system when connected to other systems.

This section lists approved fire detection and alarm systems suitable for use in buildings for the protection of people and property. The system requirements ensure the compatibility of the different components of the system work reliably together. Each component of the fire detection and alarm systems listed in this section are approved to the applicable product standard and are listed in Sections 3, 4.1, 5, 6, and 7. The approval process for the system is outlined in scheme document SD040.

Systems listed in this section have been approved to LPS 1054 *Requirements for the evaluation of component compatibility for fire alarm systems*

This standard was designed for the UK market and applies to systems incorporating control and indicating equipment and power supply equipment complying with EN 54-2 *Fire detection and fire alarm systems - Control and indicating equipment* and EN 54-4 *Fire detection and fire alarm systems - Power supply equipment* respectively.

Networked systems are evaluated by ensuring that each control panel connected to the network can operate as a stand alone unit, in the event of failure of the network connections, and that failure of a control panel will not affect other control panels on the network.

LPCB is now accepting products for approval to EN 54-13 *Compatibility assessment for system components* which is applicable to the EU market and to LPS 1653 *Requirement for Network fire detection and alarm systems.*

Note: Since LPCB uses national and international standards for the listing of products, in some instances, the requirements of these standards may conflict with the recommendations of local codes of practice. We recommend that specifiers seek advice from the relevant local authorities and amend their specifications accordingly.

Hochiki Corporation
10-43, Kamiosaki 2 Chrome, Shinagawa-ku, Tokyo, 141-8660, Japan
Tel: (+81) 3 5488 8685
E-mail: info@hochiki.co.jp • Website: http://www.hochiki.co.jp

Certificate No: 360c-(cl-2) to EN 54-13:2005

Certificated Products		**LPCB Ref. No.**
Hochiki Latitude Fire Detection and Alarm System	The Hochiki Latitude Fire Detection and Alarm System comprises of the following: Control and Indicating Equipment Hochiki Latitude 2-8 Loop Analogue Addressable Control and Indicating Equipment (Hochiki Protocol) Hochiki Latitude 2-16 Loop Analogue Addressable Control and Indicating Equipment (Hochiki Protocol) The Hochiki Latitude CIE may be connected to the following equipment and devices: **Commercial Detectors (Hochiki Protocol)** ACB-EW Weatherproof Intelligent Analogue Addressable Class P Detector (Ivory Colour) ACC-E(WHT) Intelligent Analogue Addressable Multi-Criteria Detector (White Colour) ACC-E(HFP) Intelligent Analogue Addressable Multi-Criteria Detector (White Colour) ACC-E(WHT)-SCI Intelligent Analogue Addressable Multi-Criteria Detector with Short Circuit Isolator (White Colour) ACC-E(HFP)-SCI Intelligent Analogue Addressable Multi-Criteria Detector with Short Circuit Isolator (White Colour) ACC-EN Intelligent Analogue Addressable Multi-Criteria Detector (Ivory Colour) ACC-EN(WHT) Intelligent Analogue Addressable Multi-Criteria Detector (White Colour) ACC-EN(SCI) Intelligent Analogue Addressable Multi-Criteria Detector with Short Circuit Isolator (Ivory Colour) ACC-EN(WHT)SCI Intelligent Analogue Addressable Multi-Criteria Detector with Short Circuit Isolator (White Colour) ACD-E(WHT) Intelligent Analogue Addressable Multi-Criteria Detector (White Colour) ACD-E(HFP) Intelligent Analogue Addressable Multi-Criteria Detector (White Colour) ACD-EN Intelligent Analogue Addressable Multi-Criteria Detector (Ivory Colour) ACD-EN(WHT) Intelligent Analogue Addressable Multi-Criteria Detector (White Colour) ALN-E(WHT) Intelligent Analogue Addressable Optical Smoke Detector (White Colur) ALN-E(HFP) Intelligent Analogue Addressable Optical Smoke Detector (White Colour) ALN-E(WHT)-SCI Intelligent Analogue Addressable Optical Smoke Detector with Short Circuit Isolator (White) ALN-E(HFP)-SCI Intelligent Analogue Addressable Optical Smoke Detector with Short Circuit Isolator (White) ALN-EN Intelligent Analogue Addressable Optical Smoke Detector (Ivory Colour) ALN-EN (WHT) Intelligent Analogue Addressable Optical Smoke Detector (White) ALN-EN(SCI) Intelligent Analogue Addressable Optical Smoke Detector with Short Circuit Isolator (Ivory Colour) ALN-EN(WHT)SCI Intelligent Analogue Addressable Optical Smoke Detector with Short Circuit Isolator (White) ATJ-E(WHT) Intelligent Analogue Addressable Call P Heat Detector (White Colour) ATJ-E(HFP) Intelligent Analogue Addressable Call P Heat Detector (White Colour) ATJ-E(WHT)-SCI Intelligent Analogue Addressable Call P Heat Detector with Short Circuit Isolator (White Colour) ATJ-E(HFP)-SCI Intelligent Analogue Addressable Call P Heat Detector with Short Circuit Isolator (White Colour) ATJ-EN Intelligent Analogue Addressable Call P Heat Detector (Ivory Colour) ATJ-EN(WHT) Intelligent Analogue Addressable Call P Heat Detector (White Colour) ATJ-EN(SCI) Intelligent Analogue Addressable Call P Heat Detector with Short Circuit Isolator (White Colour) ATJ-EN(WHT)-SCI Intelligent Analogue Addressable Call P Heat Detector with Short Circuit Isolator (White Colour) **Alarm Warning Devices (Hochiki Protocol)** CHQ-CB (RED)/RL Intelligent Analogue Addressable Ceiling VAD (Red Light) (Red Colour) CHQ-CB (RED)/RL-HFP Intelligent Analogue Addressable Ceiling VAD (Red Light) (Red Colour) CHQ-CB (RED)/WL Intelligent Analogue Addressable Ceiling VAD (White Light) (Red Colour) CHQ-CB (RED)/WL-15 Intelligent Analogue Addressable Ceiling VAD (White Light) (Red	360c/01

Certificated Products	LPCB Ref. No.

Colour) - 15 Meter
CHQ-CB (RED)/WL-15-HFP Intelligent Analogue Addressable Ceiling VAD (White Light) (Red Colour) - 15 Meter
CHQ-CB (RED)/WL-HFP Intelligent Analogue Addressable Ceiling VAD (White Light) (Red Colour)
CHQ-CB (WHT)/RL Intelligent Analogue Addressable Ceiling VAD (Red Light) (White Colour)
CHQ-CB (WHT)/RL-HFP Intelligent Analogue Addressable Ceiling VAD (Red Light) (White Colour)
CHQ-CB (WHT)/WL Intelligent Analogue Addressable Ceiling VAD (White Light) (White Colour)
CHQ-CB (WHT)/WL-15 Intelligent Analogue Addressable Ceiling VAD (White Light) (White Colour) - 15 Meter
CHQ-CB (WHT)/WL-15-HFP Intelligent Analogue Addressable Ceiling VAD (White Light) (White Colour) - 15 Meter
CHQ-CB (WHT)/WL-HFP Intelligent Analogue Addressable Ceiling VAD (White Light) (White Colour)
CHQ-CB/RL Intelligent Analogue Addressable Ceiling VAD (Red Light) (Ivory Colour)
CHQ-CB/WL Intelligent Analogue Addressable Ceiling VAD (White Light) (Ivory Colour)
CHQ-CB/WL-15 Intelligent Analogue Addressable Ceiling VAD (White Light) (Ivory Colour) - 15 Meter
CHQ-CB/WL-15-HFP Intelligent Analogue Addressable Ceiling VAD (White Light) (Ivory Colour) - 15 Meter
CHQ-WB(RED)/RL Intelligent Analogue Addressable Type A Wall VAD (Red Light) (Red Colour)
CHQ-WB(RED)/RL-HFP Intelligent Analogue Addressable Type A Wall VAD (Red Light) (Red Colour)
CHQ-WB(RED)/WL Intelligent Analogue Addressable Type A Wall VAD (White Light) (Red Colour)
CHQ-WB(RED)/WL-HFP Intelligent Analogue Addressable Type A Wall VAD (White Light) (Red Colour)
CHQ-WB(WHT)/RL Intelligent Analogue Addressable Type A Wall VAD (Red Light) (White Colour)
CHQ-WB(WHT)/RL-HFP Intelligent Analogue Addressable Type A Wall VAD (Red Light) (White Colour)
CHQ-WB(WHT)/WL Intelligent Analogue Addressable Type A Wall VAD (White Light) (White Colour)
CHQ-WB(WHT)/WL-HFP Intelligent Analogue Addressable Type A Wall VAD (White Light) (White Colour)
CHQ-WB/RL Intelligent Analogue Addressable Type A Wall VAD (Red Light) (Ivory Colour)
CHQ-WB/WL Intelligent Analogue Addressable Type A Wall VAD (White Light) (Ivory Colour)
CHQ-WS2 Intelligent Analogue Addressable Type A Wall Sounder (Red Colour)
CHQ-WS2 (WHT) Intelligent Analogue Addressable Type A Wall Sounder (White Colour)
CHQ-WS2(HFP) Intelligent Analogue Addressable Type A Wall Sounder (White Colour)
CHQ-WSB2(WHT)/RL Intelligent Analogue Addressable Type A/B Wall Sounder (Red Light) Beacon (White Colour)
CHQ-WSB2/RL Intelligent Analogue Addressable Type A/B Wall Sounder (Red Light) Beacon (Red Colour)
CHQ-WSB2/RL-HFP Intelligent Analogue Addressable Type A/B Wall Sounder (Red Light) Beacon (Red Colour)
CHQ-WSB2(WHT)/RL-HFP Intelligent Analogue Addressable Type A/B Wall Sounder (Red Light) Beacon (White Colour)
CHQ-WSB2(WHT)/WL Intelligent Analogue Addressable Type A/B Wall Sounder (White Light) Beacon (White Colour)
CHQ-WSB2(WHT)/WL-HFP Intelligent Analogue Addressable Type A/B Wall Sounder (White Light) Beacon (White Colour)
CHQ-WSB2/WL Intelligent Analogue Addressable Type A/B Wall Sounder (White Light) Beacon (Red Colour)
CHQ-WSB2/WL-HFP Intelligent Analogue Addressable Type A/B Wall Sounder (White Light) Beacon (Red Colour)
YBO-BS Intelligent Analogue Addressable Type A Base Sounder (Ivory Colour)
YBO-BS (WHT) Intelligent Analogue Addressable Type A Base Sounder (White Colour)
YBO-BS(HFP) Intelligent Analogue Addressable Type A Base Sounder (White Colour)
YBO-BSB2(WHT)/RL Intelligent Analogue Addressable Type A Base Sounder (Red

Certificated Products	LPCB Ref. No.

Light) Beacon (White Colour)
YBO-BSB2(WHT)/RL-HFP Intelligent Analogue Addressable Type A Base Sounder (Red Light) Beacon (White Colour)
YBO-BSB2(WHT)/WL Intelligent Analogue Addressable Type A Base Sounder (White Light) Beacon (White Colour)
YBO-BSB2(WHT)/WL-HFP Intelligent Analogue Addressable Type A Base Sounder (White Light) Beacon (White Colour)
YBO-BSB2/RL Intelligent Analogue Addressable Type A Base Sounder (Red Light) Beacon (Ivory Colour)
YBO-BSB2/WL Intelligent Analogue Addressable Type A Base Sounder (White Light) Beacon (Ivory Colour)
CWST-RW-S5 Conventional Beacon
CWST-RW-W5 Conventional Beacon
CWST-RR-S5 Conventional Beacon
CWST-WW-S5 Conventional Beacon
CWST-WW-W5 Conventional Beacon
CWST-WR-S5 Conventional Beacon
CWST-WR-W5 Conventional Beacon

Line Units (Hochiki Protocol)

CHQ-DIM/DIN(SCI) Intelligent Analogue Addressable Dual Input Module with Short Circuit Isolator (DIN Rail Version)
CHQ-DIM/OEM(SCI) Intelligent Analogue Addressable Dual Input Module with Short Circuit Isolator
CHQ-DIM/OEM(HFP)-SCI Intelligent Analogue Addressable Dual Input Module with Short Circuit Isolator
CHQ-DIM2(SCI) Intelligent Analogue Addressable Dual Input Module with Short Circuit Isolator
CHQ-DIM2/DIN(SCI) Intelligent Analogue Addressable Dual Input Module with Short Circuit Isolator (DIN Rail Version)
CHQ-DRC/DIN(SCI) Intelligent Analogue Addressable Dual Relay Controller with Short Circuit Isolator (DIN Rail Version)
CHQ-DRC/OEM(SCI) Intelligent Analogue Addressable Dual Relay Controller with Short Circuit Isolator
CHQ-DRC/OEM(HFP)-SCI Intelligent Analogue Addressable Dual Relay Controller with Short Circuit Isolator
CHQ-DRC2(SCI) Intelligent Analogue Addressable Dual Relay Controller with Short Circuit Isolator
CHQ-DRC2/DIN(SCI) Intelligent Analogue Addressable Dual Relay Controller with Short Circuit Isolator (DIN Rail Version)
CHQ-DRC2(HFP)-SCI Intelligent Analogue Addressable Dual Relay Controller with Short Circuit Isolator
CHQ-DSC/OEM(SCI) Intelligent Analogue Addressable Dual Sounder Controller with Short Circuit Isolator
CHQ-DSC/DIN(SCI) Intelligent Analogue Addressable Dual Sounder Controller with Short Circuit Isolator (DIN Rail Version)
CHQ-DSC/OEM(HFP)-SCI Intelligent Analogue Addressable Dual Sounder Controller with Short Circuit Isolator
CHQ-DSC2(SCI) Intelligent Analogue Addressable Dual Sounder Controller with Short Circuit Isolator
CHQ-DSC2/DIN(SCI) Intelligent Analogue Addressable Dual Sounder Controller with Short Circuit Isolator (DIN Rail Version)
CHQ-DSC2(HFP)-SCI Intelligent Analogue Addressable Dual Sounder Controller with Short Circuit Isolator
CHQ-DZM(SCI) Intelligent Analogue Addressable Dual Zone Monitor with Short Circuit Isolator
CHQ-DZM(HFP)-SCI Intelligent Analogue Addressable Dual Zone Monitor with Short Circuit Isolator
CHQ-DZM(SCI)-IS Intelligent Analogue Addressable Intrinsically Safe Dual Zone Monitor with Short Circuit Isolator
CHQ-DZM(HFP)-SCI-IS Intelligent Analogue Addressable Intrinsically Safe Dual Zone Monitor with Short Circuit Isolator
CHQ-DZM/DIN(SCI) Intelligent Analogue Addressable Dual Zone Monitor with Short Circuit Isolator
CHQ-DZM/DIN(SCI)-IS Intelligent Analogue Addressable Intrinsically Safe Dual Zone Monitor with Short Circuit Isolator (DIN Rail Version)
CHQ-FTM Intelligent Analogue 4-20mA Input/Output Module
CHQ-FTM/DIN Intelligent Analogue 4-20mA Input/Output Module (DIN Rail Version)
CHQ-FTM(HFP) Intelligent Analogue 4-20mA Input/Output Module
CHQ-MRC2(SCI) Intelligent Analogue Mains Relay Controller with Short Circuit Isolator
CHQ-MRC2/DIN(SCI) Intelligent Analogue Mains Relay Controller with Short Circuit Isolator (DIN Rail Version)

Certificated Products		LPCB Ref. No.
	CHQ-MRC2(HFP)-SCI Intelligent Analogue Mains Relay Controller with Short Circuit Isolator CHQ-PCM(SCI) Intelligent Analogue Addressable 4 Input 4 Output Plant Control Module with Short Circuit Isolator CHQ-PCM/DIN(SCI) Intelligent Analogue Addressable 4 Input 4 Output Plant Control Module with Short Circuit Isolator (DIN Rail Version) CHQ-PCM(HFP)-SCI Intelligent Analogue Addressable 4 Input 4 Output Plant Control Module with Short Circuit Isolator CHQ-POM Intelligent Analogue Addressable Powered Output Module CHQ-POM(HFP) Intelligent Analogue Addressable Powered Output Module CHQ-SIM Intelligent Analogue Addressable Single Input Module CHQ-SIM(HFP) Intelligent Analogue Addressable Single Input Module CHQ-SOM Intelligent Analogue Addressable Single Output Module CHQ-SOM(HFP) Intelligent Analogue Addressable Single Output Module CHQ-SZM2(SCI) Intelligent Analogue Addressable Single Zone Module with Short Circuit Isolator CHQ-SZM2/DIN(SCI) Intelligent Analogue Addressable Single Zone Module with Short Circuit Isolator (DIN Rail Version) CHQ-SZM2(HFP)-SCI Intelligent Analogue Addressable Single Zone Module with Short Circuit Isolator **Manual Call Points (Hochiki Protocol)** HCP-E(SCI) Intelligent Analogue Addressable Manual Call point with Short Circuit Isolator (SR Mounting Box) HCP-E(HFP)-SCI Intelligent Analogue Addressable Manual Call point with Short Circuit Isolator (SR Mounting Box) SCP-W(DPS) Intelligent Analogue Addressable Type A Weatherproof Manual Call point SCP-DPS Intelligent Analogue Addressable Type A Manual Call point HCP-W(SCI) Weatherproof Intelligent Analogue Addressable Manual Call point with Short Circuit Isolator (SR Mounting Box) HCP-W(HFP)-SCI Weatherproof Intelligent Analogue Addressable Manual Call point with Short Circuit Isolator (SR Mounting Box) Short Circuit Isolating Bases YBN-R/3(SCI)-WHT Short Circuit Isolating Base (White Colour) YBN-R/3(SCI) Short Circuit Isolating Base (Ivory Colour) YBN-R/3(HFP)-SCI Short Circuit Isolating Base (Ivory Colour) YBO-R/SCI(RED) Short Circuit Isolating Base (Red Colour) > . ***2)*** *For further information on each transmission path compatibility and connectability refer to the manufacturers EN54-13 Manual document ref MAN-1401H.*	

A copy of the certificate, confirming the full scope of approval including notes relating to the superscript references in the above table, may be viewed online by clicking on the product name in the associated entry on www.RedBookLive.com

---

Hochiki Europe (UK) Limited

Grosvenor Road, Gillingham Business Park, Gillingham, Kent ME8 0SA, United Kingdom
Tel: +44 (0)1634 260133 • Fax: +44 (0)1634 260132
E-mail: info@hochikieurope.com • Website: www.hochikieurope.com

Certificate No: 360c-(cl-1) to EN 54-13:2005

Certificated Products		LPCB Ref. No.
HFP Latitude Fire Detection and Alarm System	The HFP Latitude Fire Detection and Alarm System comprises of the following: Control and Indicating Equipment HFP Latitude (Hochiki Protocol) 2-8 Loop Analogue Addressable Control and Indicating Equipment HFP Latitude (Hochiki Protocol) 2-16 Loop Analogue Addressable Control and Indicating Equipment The HFP Latitude CIE may be connected to the following equipment and devices: Commercial Detectors (Hochiki Protocol) ACB-EW Weatherproof Intelligent Analogue Addressable Class P Detector (Ivory Colour) ACC-E(WHT) Intelligent Analogue Addressable Multi-Criteria Detector (White	360c/01

Certificated Products **LPCB Ref. No.**

Colour)
ACC-E(HFP) Intelligent Analogue Addressable Multi-Criteria Detector (White Colour)
ACC-E(WHT)-SCI Intelligent Analogue Addressable Multi-Criteria Detector with Short Circuit Isolator (White Colour)
ACC-E(HFP)-SCI Intelligent Analogue Addressable Multi-Criteria Detector with Short Circuit Isolator (White Colour)
ACC-EN Intelligent Analogue Addressable Multi-Criteria Detector (Ivory Colour)
ACC-EN(WHT) Intelligent Analogue Addressable Multi-Criteria Detector (White Colour)
ACC-EN(SCI) Intelligent Analogue Addressable Multi-Criteria Detector with Short Circuit Isolator (Ivory Colour)
ACC-EN(WHT)SCI Intelligent Analogue Addressable Multi-Criteria Detector with Short Circuit Isolator (White Colour)
ACD-E(WHT) Intelligent Analogue Addressable Multi-Criteria Detector (White Colour)
ACD-E(HFP) Intelligent Analogue Addressable Multi-Criteria Detector (White Colour)
ACD-EN Intelligent Analogue Addressable Multi-Criteria Detector (Ivory Colour)
ACD-EN(WHT) Intelligent Analogue Addressable Multi-Criteria Detector (White Colour)
ALN-E(WHT) Intelligent Analogue Addressable Optical Smoke Detector (White Colur)
ALN-E(HFP) Intelligent Analogue Addressable Optical Smoke Detector (White Colour)
ALN-E(WHT)-SCI Intelligent Analogue Addressable Optical Smoke Detector with Short Circuit Isolator (White)
ALN-E(HFP)-SCI Intelligent Analogue Addressable Optical Smoke Detector with Short Circuit Isolator (White)
ALN-EN Intelligent Analogue Addressable Optical Smoke Detector (Ivory Colour)
ALN-EN (WHT) Intelligent Analogue Addressable Optical Smoke Detector (White)
ALN-EN(SCI) Intelligent Analogue Addressable Optical Smoke Detector with Short Circuit Isolator (Ivory Colour)
ALN-EN(WHT)SCI Intelligent Analogue Addressable Optical Smoke Detector with Short Circuit Isolator (White)
ATJ-E(WHT) Intelligent Analogue Addressable Call P Heat Detector (White Colour)
ATJ-E(HFP) Intelligent Analogue Addressable Call P Heat Detector (White Colour)
ATJ-E(WHT)-SCI Intelligent Analogue Addressable Call P Heat Detector with Short Circuit Isolator (White Colour)
ATJ-E(HFP)-SCI Intelligent Analogue Addressable Call P Heat Detector with Short Circuit Isolator (White Colour)
ATJ-EN Intelligent Analogue Addressable Call P Heat Detector (Ivory Colour)
ATJ-EN(WHT) Intelligent Analogue Addressable Call P Heat Detector (White Colour)
ATJ-EN(SCI) Intelligent Analogue Addressable Call P Heat Detector with Short Circuit Isolator (White Colour)
ATJ-EN(WHT)-SCI Intelligent Analogue Addressable Call P Heat Detector with Short Circuit Isolator (White Colour)

Alarm Warning Devices (Hochiki Protocol)
CHQ-CB (RED)/RL Intelligent Analogue Addressable Ceiling VAD (Red Light) (Red Colour)
CHQ-CB (RED)/RL-HFP Intelligent Analogue Addressable Ceiling VAD (Red Light) (Red Colour)
CHQ-CB (RED)/WL Intelligent Analogue Addressable Ceiling VAD (White Light) (Red Colour)
CHQ-CB (RED)/WL-15 Intelligent Analogue Addressable Ceiling VAD (White Light) (Red Colour) - 15 Meter
CHQ-CB (RED)/WL-15-HFP Intelligent Analogue Addressable Ceiling VAD (White Light) (Red Colour) - 15 Meter
CHQ-CB (RED)/WL-HFP Intelligent Analogue Addressable Ceiling VAD (White Light) (Red Colour)
CHQ-CB (WHT)/RL Intelligent Analogue Addressable Ceiling VAD (Red Light) (White Colour)
CHQ-CB (WHT)/RL-HFP Intelligent Analogue Addressable Ceiling VAD (Red Light) (White Colour)
CHQ-CB (WHT)/WL Intelligent Analogue Addressable Ceiling VAD (White Light) (White Colour)
CHQ-CB (WHT)/WL-15 Intelligent Analogue Addressable Ceiling VAD (White Light) (White Colour) - 15 Meter

Certificated Products **LPCB Ref. No.**

CHQ-CB (WHT)/WL-15-HFP Intelligent Analogue Addressable Ceiling VAD (White Light) (White Colour) - 15 Meter
CHQ-CB (WHT)/WL-HFP Intelligent Analogue Addressable Ceiling VAD (White Light) (White Colour)
CHQ-CB/RL Intelligent Analogue Addressable Ceiling VAD (Red Light) (Ivory Colour)
CHQ-CB/WL Intelligent Analogue Addressable Ceiling VAD (White Light) (Ivory Colour)
CHQ-CB/WL-15 Intelligent Analogue Addressable Ceiling VAD (White Light) (Ivory Colour) - 15 Meter
CHQ-CB/WL-15-HFP Intelligent Analogue Addressable Ceiling VAD (White Light) (Ivory Colour) - 15 Meter
CHQ-WB(RED)/RL Intelligent Analogue Addressable Type A Wall VAD (Red Light) (Red Colour)
CHQ-WB(RED)/RL-HFP Intelligent Analogue Addressable Type A Wall VAD (Red Light) (Red Colour)
CHQ-WB(RED)/WL Intelligent Analogue Addressable Type A Wall VAD (White Light) (Red Colour)
CHQ-WB(RED)/WL-HFP Intelligent Analogue Addressable Type A Wall VAD (White Light) (Red Colour)
CHQ-WB(WHT)/RL Intelligent Analogue Addressable Type A Wall VAD (Red Light) (White Colour)
CHQ-WB(WHT)/RL-HFP Intelligent Analogue Addressable Type A Wall VAD (Red Light) (White Colour)
CHQ-WB(WHT)/WL Intelligent Analogue Addressable Type A Wall VAD (White Light) (White Colour)
CHQ-WB(WHT)/WL-HFP Intelligent Analogue Addressable Type A Wall VAD (White Light) (White Colour)
CHQ-WB/RL Intelligent Analogue Addressable Type A Wall VAD (Red Light) (Ivory Colour)
CHQ-WB/WL Intelligent Analogue Addressable Type A Wall VAD (White Light) (Ivory Colour)
CHQ-WS2 Intelligent Analogue Addressable Type A Wall Sounder (Red Colour)
CHQ-WS2 (WHT) Intelligent Analogue Addressable Type A Wall Sounder (White Colour)
CHQ-WS2(HFP) Intelligent Analogue Addressable Type A Wall Sounder (White Colour)
CHQ-WSB2(WHT)/RL Intelligent Analogue Addressable Type A/B Wall Sounder (Red Light) Beacon (White Colour)
CHQ-WSB2/RL Intelligent Analogue Addressable Type A/B Wall Sounder (Red Light) Beacon (Red Colour)
CHQ-WSB2/RL-HFP Intelligent Analogue Addressable Type A/B Wall Sounder (Red Light) Beacon (Red Colour)
CHQ-WSB2(WHT)/RL-HFP Intelligent Analogue Addressable Type A/B Wall Sounder (Red Light) Beacon (White Colour)
CHQ-WSB2(WHT)/WL Intelligent Analogue Addressable Type A/B Wall Sounder (White Light) Beacon (White Colour)
CHQ-WSB2(WHT)/WL-HFP Intelligent Analogue Addressable Type A/B Wall Sounder (White Light) Beacon (White Colour)
CHQ-WSB2/WL Intelligent Analogue Addressable Type A/B Wall Sounder (White Light) Beacon (Red Colour)
CHQ-WSB2/WL-HFP Intelligent Analogue Addressable Type A/B Wall Sounder (White Light) Beacon (Red Colour)
YBO-BS Intelligent Analogue Addressable Type A Base Sounder (Ivory Colour)
YBO-BS (WHT) Intelligent Analogue Addressable Type A Base Sounder (White Colour)
YBO-BS(HFP) Intelligent Analogue Addressable Type A Base Sounder (White Colour)
YBO-BSB2(WHT)/RL Intelligent Analogue Addressable Type A Base Sounder (Red Light) Beacon (White Colour)
YBO-BSB2(WHT)/RL-HFP Intelligent Analogue Addressable Type A Base Sounder (Red Light) Beacon (White Colour)
YBO-BSB2(WHT)/WL Intelligent Analogue Addressable Type A Base Sounder (White Light) Beacon (White Colour)
YBO-BSB2(WHT)/WL-HFP Intelligent Analogue Addressable Type A Base Sounder (White Light) Beacon (White Colour)
YBO-BSB2/RL Intelligent Analogue Addressable Type A Base Sounder (Red Light) Beacon (Ivory Colour)
YBO-BSB2/WL Intelligent Analogue Addressable Type A Base Sounder (White Light) Beacon (Ivory Colour)
CWST-RW-S5 Conventional Beacon
CWST-RW-W5 Conventional Beacon

Certificated Products **LPCB Ref. No.**

CWST-RR-S5 Conventional Beacon
CWST-WW-S5 Conventional Beacon
CWST-WW-W5 Conventional Beacon
CWST-WR-S5 Conventional Beacon
CWST-WR-W5 Conventional Beacon

Line Units (Hochiki Protocol)

CHQ-DIM/DIN(SCI) Intelligent Analogue Addressable Dual Input Module with Short Circuit Isolator (DIN Rail Version)
CHQ-DIM/OEM(SCI) Intelligent Analogue Addressable Dual Input Module with Short Circuit Isolator
CHQ-DIM/OEM(HFP)-SCI Intelligent Analogue Addressable Dual Input Module with Short Circuit Isolator
CHQ-DIM2(SCI) Intelligent Analogue Addressable Dual Input Module with Short Circuit Isolator
CHQ-DIM2/DIN(SCI) Intelligent Analogue Addressable Dual Input Module with Short Circuit Isolator (DIN Rail Version)
CHQ-DRC/DIN(SCI) Intelligent Analogue Addressable Dual Relay Controller with Short Circuit Isolator (DIN Rail Version)
CHQ-DRC/OEM(SCI) Intelligent Analogue Addressable Dual Relay Controller with Short Circuit Isolator
CHQ-DRC/OEM(HFP)-SCI Intelligent Analogue Addressable Dual Relay Controller with Short Circuit Isolator
CHQ-DRC2(SCI) Intelligent Analogue Addressable Dual Relay Controller with Short Circuit Isolator
CHQ-DRC2/DIN(SCI) Intelligent Analogue Addressable Dual Relay Controller with Short Circuit Isolator (DIN Rail Version)
CHQ-DRC2(HFP)-SCI Intelligent Analogue Addressable Dual Relay Controller with Short Circuit Isolator
CHQ-DSC/OEM(SCI) Intelligent Analogue Addressable Dual Sounder Controller with Short Circuit Isolator
CHQ-DSC/DIN(SCI) Intelligent Analogue Addressable Dual Sounder Controller with Short Circuit Isolator (DIN Rail Version)
CHQ-DSC/OEM(HFP)-SCI Intelligent Analogue Addressable Dual Sounder Controller with Short Circuit Isolator
CHQ-DSC2(SCI) Intelligent Analogue Addressable Dual Sounder Controller with Short Circuit Isolator
CHQ-DSC2/DIN(SCI) Intelligent Analogue Addressable Dual Sounder Controller with Short Circuit Isolator (DIN Rail Version)
CHQ-DSC2(HFP)-SCI Intelligent Analogue Addressable Dual Sounder Controller with Short Circuit Isolator
CHQ-DZM(SCI) Intelligent Analogue Addressable Dual Zone Monitor with Short Circuit Isolator
CHQ-DZM(HFP)-SCI Intelligent Analogue Addressable Dual Zone Monitor with Short Circuit Isolator
CHQ-DZM(SCI)-IS Intelligent Analogue Addressable Intrinsically Safe Dual Zone Monitor with Short Circuit Isolator
CHQ-DZM(HFP)-SCI-IS Intelligent Analogue Addressable Intrinsically Safe Dual Zone Monitor with Short Circuit Isolator
CHQ-DZM/DIN(SCI) Intelligent Analogue Addressable Dual Zone Monitor with Short Circuit Isolator
CHQ-DZM/DIN(SCI)-IS Intelligent Analogue Addressable Intrinsically Safe Dual Zone Monitor with Short Circuit Isolator (DIN Rail Version)
CHQ-FTM Intelligent Analogue 4-20mA Input/Output Module
CHQ-FTM/DIN Intelligent Analogue 4-20mA Input/Output Module (DIN Rail Version)
CHQ-FTM(HFP) Intelligent Analogue 4-20mA Input/Output Module
CHQ-MRC2(SCI) Intelligent Analogue Mains Relay Controller with Short Circuit Isolator
CHQ-MRC2/DIN(SCI) Intelligent Analogue Mains Relay Controller with Short Circuit Isolator (DIN Rail Version)
CHQ-MRC2(HFP)-SCI Intelligent Analogue Mains Relay Controller with Short Circuit Isolator
CHQ-PCM(SCI) Intelligent Analogue Addressable 4 Input 4 Output Plant Control Module with Short Circuit Isolator
CHQ-PCM/DIN(SCI) Intelligent Analogue Addressable 4 Input 4 Output Plant Control Module with Short Circuit Isolator (DIN Rail Version)
CHQ-PCM(HFP)-SCI Intelligent Analogue Addressable 4 Input 4 Output Plant Control Module with Short Circuit Isolator
CHQ-POM Intelligent Analogue Addressable Powered Output Module
CHQ-POM(HFP) Intelligent Analogue Addressable Powered Output Module
CHQ-SIM Intelligent Analogue Addressable Single Input Module
CHQ-SIM(HFP) Intelligent Analogue Addressable Single Input Module
CHQ-SOM Intelligent Analogue Addressable Single Output Module

Certificated Products		LPCB Ref. No.
	CHQ-SOM(HFP) Intelligent Analogue Addressable Single Output Module CHQ-SZM2(SCI) Intelligent Analogue Addressable Single Zone Module with Short Circuit Isolator CHQ-SZM2/DIN(SCI) Intelligent Analogue Addressable Single Zone Module with Short Circuit Isolator (DIN Rail Version) CHQ-SZM2(HFP)-SCI Intelligent Analogue Addressable Single Zone Module with Short Circuit Isolator **Manual Call Points (Hochiki Protocol)** HCP-E(SCI) Intelligent Analogue Addressable Manual Call point with Short Circuit Isolator (SR Mounting Box) HCP-E(HFP)-SCI Intelligent Analogue Addressable Manual Call point with Short Circuit Isolator (SR Mounting Box) SCP-W(DPS) Intelligent Analogue Addressable Type A Weatherproof Manual Call point SCP-DPS Intelligent Analogue Addressable Type A Manual Call point HCP-W(SCI) Weatherproof Intelligent Analogue Addressable Manual Call point with Short Circuit Isolator (SR Mounting Box) HCP-W(HFP)-SCI Weatherproof Intelligent Analogue Addressable Manual Call point with Short Circuit Isolator (SR Mounting Box) Short Circuit Isolating Bases YBN-R/3(SCI)-WHT Short Circuit Isolating Base (White Colour) YBN-R/3(SCI) Short Circuit Isolating Base (Ivory Colour) YBN-R/3(HFP)-SCI Short Circuit Isolating Base (Ivory Colour) YBO-R/SCI(RED) Short Circuit Isolating Base (Red Colour) > . ***2)*** *For further information on each transmission path compatibility and connectability refer to the manufacturers EN54-13 Manual document ref MAN-1401H.*	

A copy of the certificate, confirming the full scope of approval including notes relating to the superscript references in the above table, may be viewed online by clicking on the product name in the associated entry on www.RedBookLive.com

---

INIM Electronics S.R.L

Via Dei Lavoratori 10, Frazione Centobuchi, Monteprandone (AP) 63076, Italy
Tel: +39 0735 705007 • Fax: +39 0735 704912
E-mail: info@inim.biz • Website: www.inim.biz

Certificate No: 991m to EN 54-13:2005

Certificated Products		LPCB Ref. No.
PREVIDIA216 Fire Detection and Alarm System	The PREVIDIA216 Fire Detection and Alarm System comprises of the following: Control and Indicating Equipment PREVIDIA216 2 - 16 Loop Analogue Addressable Control and Indicating Equipment and Extinguishing Control Panel (e.c.d) PREVIDIA216R 2 - 16 Loop Analogue Addressable Control and Indicating Equipment and Extinguishing Control Panel (e.c.d) - Red **The PREVIDIA216 CIE may be connected to the following equipment and devices:** **Commercial Detectors** ED100 Intelligent Analogue Addressable Optical Smoke Detector with Short Circuit Isolator ED200 Intelligent Analogue Addressable Class P Heat Detector with Short Circuit Isolator ED300 Intelligent Analogue Addressable Multi-Criteria Detector with Short Circuit Isolator Manual Call Points EC0020 Addressable Type A Indoor Resettable Manual Call Point with Short Circuit Isolator Line Units EM312SR Intelligent Analogue Addressable Mini Input/Output Module with Short Circuit Isolator	991m/01

Certificated Products		LPCB Ref. No.
	EU311 Intelligent Analogue Addressable Micro Input/Output Module with Short Circuit Isolator EM344S Intelligent Analogue Addressable 4 Input / 4 Supervised Output Module with Short Circuit Isolator EM344R Intelligent Analogue Addressable 4 Input / 4 Relay Output Module with Short Circuit Isolator EM340 Intelligent Analogue Addressable 4 Input Module with Short Circuit Isolator EM304S Intelligent Analogue Addressable Output Module with Short Circuit Isolator EM304R Intelligent Analogue Addressable 4 Relay Output Module with Short Circuit Isolator > . ***2)*** *For further information on each transmission path compatibility and connectability refer to the manufacturers EN54-13 Manual document ref DCMIINIEPRAEMAXEN5413*	

A copy of the certificate, confirming the full scope of approval including notes relating to the superscript references in the above table, may be viewed online by clicking on the product name in the associated entry on www.RedBookLive.com

---

Kentec Electronics Limited

Units 25-27, Fawkes Avenue, Questor, Dartford, Kent DA1 1JQ, United Kingdom
Tel: +44 (0)1322 222121 • Fax: +44 (0)1322 291794
E-mail: sales@kentec.co.uk • Website: www.kentec.co.uk

Certificate No: 360c to EN 54-13:2005

Certificated Products		LPCB Ref. No.
Taktis Fire Detection and Alarm System	The Taktis Fire Detection and Alarm System comprises of the following: Control and Indicating Equipment Taktis 2-8 Loop Analogue Addressable Control and Indicating Equipment (Hochiki and Apollo Protocols) Taktis 2-16 Loop Analogue Addressable Control and Indicating Equipment (Hochiki and Apollo Protocols) The Taktis CIE may be connected to the following equipment and devices: Commercial Detectors (Hochiki Protocol) ACB-EW Weatherproof Intelligent Analogue Addressable Class P Detector (Ivory Colour) ACC-E(WHT) Intelligent Analogue Addressable Multi-Criteria Detector (White Colour) ACC-E(HFP) Intelligent Analogue Addressable Multi-Criteria Detector (White Colour) ACC-E(WHT)-SCI Intelligent Analogue Addressable Multi-Criteria Detector with Short Circuit Isolator (White Colour) ACC-E(HFP)-SCI Intelligent Analogue Addressable Multi-Criteria Detector with Short Circuit Isolator (White Colour) ACC-EN Intelligent Analogue Addressable Multi-Criteria Detector (Ivory Colour) ACC-EN(WHT) Intelligent Analogue Addressable Multi-Criteria Detector (White Colour) ACC-EN(SCI) Intelligent Analogue Addressable Multi-Criteria Detector with Short Circuit Isolator (Ivory Colour) ACC-EN(WHT)SCI Intelligent Analogue Addressable Multi-Criteria Detector with Short Circuit Isolator (White Colour) ACD-E(WHT) Intelligent Analogue Addressable Multi-Criteria Detector (White Colour) ACD-E(HFP) Intelligent Analogue Addressable Multi-Criteria Detector (White Colour) ACD-EN Intelligent Analogue Addressable Multi-Criteria Detector (Ivory Colour) ACD-EN(WHT) Intelligent Analogue Addressable Multi-Criteria Detector (White Colour) ALN-E(WHT) Intelligent Analogue Addressable Optical Smoke Detector (White Colur) ALN-E(HFP) Intelligent Analogue Addressable Optical Smoke Detector (White Colour) ALN-E(WHT)-SCI Intelligent Analogue Addressable Optical Smoke Detector with Short Circuit Isolator (White) ALN-E(HFP)-SCI Intelligent Analogue Addressable Optical Smoke Detector with Short	360c/01

Certificated Products	LPCB Ref. No.

Circuit Isolator (White)
ALN-EN Intelligent Analogue Addressable Optical Smoke Detector (Ivory Colour)
ALN-EN (WHT) Intelligent Analogue Addressable Optical Smoke Detector (White)
ALN-EN(SCI) Intelligent Analogue Addressable Optical Smoke Detector with Short Circuit Isolator (Ivory Colour)
ALN-EN(WHT)SCI Intelligent Analogue Addressable Optical Smoke Detector with Short Circuit Isolator (White)
ATJ-E(WHT) Intelligent Analogue Addressable Call P Heat Detector (White Colour)
ATJ-E(HFP) Intelligent Analogue Addressable Call P Heat Detector (White Colour)
ATJ-E(WHT)-SCI Intelligent Analogue Addressable Call P Heat Detector with Short Circuit Isolator (White Colour)
ATJ-E(HFP)-SCI Intelligent Analogue Addressable Call P Heat Detector with Short Circuit Isolator (White Colour)
ATJ-EN Intelligent Analogue Addressable Call P Heat Detector (Ivory Colour)
ATJ-EN(WHT) Intelligent Analogue Addressable Call P Heat Detector (White Colour)
ATJ-EN(SCI) Intelligent Analogue Addressable Call P Heat Detector with Short Circuit Isolator (White Colour)
ATJ-EN(WHT)-SCI Intelligent Analogue Addressable Call P Heat Detector with Short Circuit Isolator (White Colour)

Commercial Detectors (Apollo Protocol)

58000-400 Discovery Heat Detector
58000-700 Discovery Multi-sensor Detector
55000-600 XP95 Optical Smoke Detector
55000-620 XP95 Optical Smoke Detector
55000-401 XP95 CS Heat Detector
55000-400 XP95 A2S Heat Detector
58000-600 Discovery Optical Smoke Detector
55000-420 XP95 Heat Detector
55000-660 XP95 Optical Smoke Detector (Black)
55000-885 XP95 Multi-sensor Detector
55000-500 XP95 Ionisation smoke Detector
55000-520 XP95 Ionisation smoke Detector
58000-500 Discovery Ionisation Smoke Detector
SA5100-600 Soteria Optical sensor isolated
SA5100-700 Soteria Multi-sensor isolated
SA5100-400 Soteria Heat sensor isolated
SA5000-600 Soteria Optical sensor non-isolated
SA5000-700 Soteria Multi-sensor non-isolated
SA5000-400 Soteria Heat sensor non-isolated

Alarm Warning Devices (Hochiki Protocol)

CHQ-CB (RED)/RL Intelligent Analogue Addressable Ceiling VAD (Red Light) (Red Colour)
CHQ-CB (RED)/RL-HFP Intelligent Analogue Addressable Ceiling VAD (Red Light) (Red Colour)
CHQ-CB (RED)/WL Intelligent Analogue Addressable Ceiling VAD (White Light) (Red Colour)
CHQ-CB (RED)/WL-15 Intelligent Analogue Addressable Ceiling VAD (White Light) (Red Colour) - 15 Meter
CHQ-CB (RED)/WL-15-HFP Intelligent Analogue Addressable Ceiling VAD (White Light) (Red Colour) - 15 Meter
CHQ-CB (RED)/WL-HFP Intelligent Analogue Addressable Ceiling VAD (White Light) (Red Colour)
CHQ-CB (WHT)/RL Intelligent Analogue Addressable Ceiling VAD (Red Light) (White Colour)
CHQ-CB (WHT)/RL-HFP Intelligent Analogue Addressable Ceiling VAD (Red Light) (White Colour)
CHQ-CB (WHT)/WL Intelligent Analogue Addressable Ceiling VAD (White Light) (White Colour)
CHQ-CB (WHT)/WL-15 Intelligent Analogue Addressable Ceiling VAD (White Light) (White Colour) - 15 Meter
CHQ-CB (WHT)/WL-15-HFP Intelligent Analogue Addressable Ceiling VAD (White Light) (White Colour) - 15 Meter
CHQ-CB (WHT)/WL-HFP Intelligent Analogue Addressable Ceiling VAD (White Light) (White Colour)
CHQ-CB/RL Intelligent Analogue Addressable Ceiling VAD (Red Light) (Ivory Colour)
CHQ-CB/WL Intelligent Analogue Addressable Ceiling VAD (White Light) (Ivory Colour)

Certificated Products **LPCB Ref. No.**

CHQ-CB/WL-15 Intelligent Analogue Addressable Ceiling VAD (White Light) (Ivory Colour) - 15 Meter
CHQ-CB/WL-15-HFP Intelligent Analogue Addressable Ceiling VAD (White Light) (Ivory Colour) - 15 Meter
CHQ-WB(RED)/RL Intelligent Analogue Addressable Type A Wall VAD (Red Light) (Red Colour)
CHQ-WB(RED)/RL-HFP Intelligent Analogue Addressable Type A Wall VAD (Red Light) (Red Colour)
CHQ-WB(RED)/WL Intelligent Analogue Addressable Type A Wall VAD (White Light) (Red Colour)
CHQ-WB(RED)/WL-HFP Intelligent Analogue Addressable Type A Wall VAD (White Light) (Red Colour)
CHQ-WB(WHT)/RL Intelligent Analogue Addressable Type A Wall VAD (Red Light) (White Colour)
CHQ-WB(WHT)/RL-HFP Intelligent Analogue Addressable Type A Wall VAD (Red Light) (White Colour)
CHQ-WB(WHT)/WL Intelligent Analogue Addressable Type A Wall VAD (White Light) (White Colour)
CHQ-WB(WHT)/WL-HFP Intelligent Analogue Addressable Type A Wall VAD (White Light) (White Colour)
CHQ-WB/RL Intelligent Analogue Addressable Type A Wall VAD (Red Light) (Ivory Colour)
CHQ-WB/WL Intelligent Analogue Addressable Type A Wall VAD (White Light) (Ivory Colour)
CHQ-WS2 Intelligent Analogue Addressable Type A Wall Sounder (Red Colour)
CHQ-WS2 (WHT) Intelligent Analogue Addressable Type A Wall Sounder (White Colour)
CHQ-WS2(HFP) Intelligent Analogue Addressable Type A Wall Sounder (White Colour)
CHQ-WSB2(WHT)/RL Intelligent Analogue Addressable Type A/B Wall Sounder (Red Light) Beacon (White Colour)
CHQ-WSB2/RL Intelligent Analogue Addressable Type A/B Wall Sounder (Red Light) Beacon (Red Colour)
CHQ-WSB2/RL-HFP Intelligent Analogue Addressable Type A/B Wall Sounder (Red Light) Beacon (Red Colour)
CHQ-WSB2(WHT)/RL-HFP Intelligent Analogue Addressable Type A/B Wall Sounder (Red Light) Beacon (White Colour)
CHQ-WSB2(WHT)/WL Intelligent Analogue Addressable Type A/B Wall Sounder (White Light) Beacon (White Colour)
CHQ-WSB2(WHT)/WL-HFP Intelligent Analogue Addressable Type A/B Wall Sounder (White Light) Beacon (White Colour)
CHQ-WSB2/WL Intelligent Analogue Addressable Type A/B Wall Sounder (White Light) Beacon (Red Colour)
CHQ-WSB2/WL-HFP Intelligent Analogue Addressable Type A/B Wall Sounder (White Light) Beacon (Red Colour)
YBO-BS Intelligent Analogue Addressable Type A Base Sounder (Ivory Colour)
YBO-BS (WHT) Intelligent Analogue Addressable Type A Base Sounder (White Colour)
YBO-BS(HFP) Intelligent Analogue Addressable Type A Base Sounder (White Colour)
YBO-BSB2(WHT)/RL Intelligent Analogue Addressable Type A Base Sounder (Red Light) Beacon (White Colour)
YBO-BSB2(WHT)/RL-HFP Intelligent Analogue Addressable Type A Base Sounder (Red Light) Beacon (White Colour)
YBO-BSB2(WHT)/WL Intelligent Analogue Addressable Type A Base Sounder (White Light) Beacon (White Colour)
YBO-BSB2(WHT)/WL-HFP Intelligent Analogue Addressable Type A Base Sounder (White Light) Beacon (White Colour)
YBO-BSB2/RL Intelligent Analogue Addressable Type A Base Sounder (Red Light) Beacon (Ivory Colour)
YBO-BSB2/WL Intelligent Analogue Addressable Type A Base Sounder (White Light) Beacon (Ivory Colour)
CWST-RW-S5 Conventional Beacon
CWST-RW-W5 Conventional Beacon
CWST-RR-S5 Conventional Beacon
CWST-WW-S5 Conventional Beacon
CWST-WW-W5 Conventional Beacon
CWST-WR-S5 Conventional Beacon
CWST-WR-W5 Conventional Beacon

Alarm Warning Devices (Apollo Protocol)

45681-700 Discovery Sounder VAD Base with isolator
55000-006 XP95 Open -Area Sounder Visual indicator (WHITE)

Certificated Products **LPCB Ref. No.**

58000-007 Discovery Open-Area Sounder Visual indicator (WHITE)
55000-005 XP95 Open-Area Sounder Visual indicator (RED)
58000-005 Discovery Open -Area Sounder Visual indicator (RED)
55000-002 XP95 Intelligent Open-Area Sounder W (WHITE)
55000-001 XP95 Intelligent Open-Area Sounder R (RED)
55000-741 Loop Powered Type A VAD 6m Red
55000-744 Loop Powered Type A VAD 6m White
55000-742 Loop Powered Type A VAD 8.5m Red
55000-745 Loop Powered Type A VAD 8.5m White
55000-743 Loop Powered Type A VAD 15m White
55000-740 Loop Powered Type A VAD 15m Red

Line Units (Hochiki Protocol)

CHQ-DIM/DIN(SCI) Intelligent Analogue Addressable Dual Input Module with Short Circuit Isolator (DIN Rail Version)
CHQ-DIM/OEM(SCI) Intelligent Analogue Addressable Dual Input Module with Short Circuit Isolator
CHQ-DIM/OEM(HFP)-SCI Intelligent Analogue Addressable Dual Input Module with Short Circuit Isolator
CHQ-DIM2(SCI) Intelligent Analogue Addressable Dual Input Module with Short Circuit Isolator
CHQ-DIM2/DIN(SCI) Intelligent Analogue Addressable Dual Input Module with Short Circuit Isolator (DIN Rail Version)
CHQ-DRC/DIN(SCI) Intelligent Analogue Addressable Dual Relay Controller with Short Circuit Isolator (DIN Rail Version)
CHQ-DRC/OEM(SCI) Intelligent Analogue Addressable Dual Relay Controller with Short Circuit Isolator
CHQ-DRC/OEM(HFP)-SCI Intelligent Analogue Addressable Dual Relay Controller with Short Circuit Isolator
CHQ-DRC2(SCI) Intelligent Analogue Addressable Dual Relay Controller with Short Circuit Isolator
CHQ-DRC2/DIN(SCI) Intelligent Analogue Addressable Dual Relay Controller with Short Circuit Isolator (DIN Rail Version)
CHQ-DRC2(HFP)-SCI Intelligent Analogue Addressable Dual Relay Controller with Short Circuit Isolator
CHQ-DSC/OEM(SCI) Intelligent Analogue Addressable Dual Sounder Controller with Short Circuit Isolator
CHQ-DSC/DIN(SCI) Intelligent Analogue Addressable Dual Sounder Controller with Short Circuit Isolator (DIN Rail Version)
CHQ-DSC/OEM(HFP)-SCI Intelligent Analogue Addressable Dual Sounder Controller with Short Circuit Isolator
CHQ-DSC2(SCI) Intelligent Analogue Addressable Dual Sounder Controller with Short Circuit Isolator
CHQ-DSC2/DIN(SCI) Intelligent Analogue Addressable Dual Sounder Controller with Short Circuit Isolator (DIN Rail Version)
CHQ-DSC2(HFP)-SCI Intelligent Analogue Addressable Dual Sounder Controller with Short Circuit Isolator
CHQ-DZM(SCI) Intelligent Analogue Addressable Dual Zone Monitor with Short Circuit Isolator
CHQ-DZM(HFP)-SCI Intelligent Analogue Addressable Dual Zone Monitor with Short Circuit Isolator
CHQ-DZM(SCI)-IS Intelligent Analogue Addressable Intrinsically Safe Dual Zone Monitor with Short Circuit Isolator
CHQ-DZM(HFP)-SCI-IS Intelligent Analogue Addressable Intrinsically Safe Dual Zone Monitor with Short Circuit Isolator
CHQ-DZM/DIN(SCI) Intelligent Analogue Addressable Dual Zone Monitor with Short Circuit Isolator
CHQ-DZM/DIN(SCI)-IS Intelligent Analogue Addressable Intrinsically Safe Dual Zone Monitor with Short Circuit Isolator (DIN Rail Version)
CHQ-FTM Intelligent Analogue 4-20mA Input/Output Module
CHQ-FTM/DIN Intelligent Analogue 4-20mA Input/Output Module (DIN Rail Version)
CHQ-FTM(HFP) Intelligent Analogue 4-20mA Input/Output Module
CHQ-MRC2(SCI) Intelligent Analogue Mains Relay Controller with Short Circuit Isolator
CHQ-MRC2/DIN(SCI) Intelligent Analogue Mains Relay Controller with Short Circuit Isolator (DIN Rail Version)
CHQ-MRC2(HFP)-SCI Intelligent Analogue Mains Relay Controller with Short Circuit Isolator
CHQ-PCM(SCI) Intelligent Analogue Addressable 4 Input 4 Output Plant Control Module with Short Circuit Isolator
CHQ-PCM/DIN(SCI) Intelligent Analogue Addressable 4 Input 4 Output Plant Control Module with Short Circuit Isolator (DIN Rail Version)
CHQ-PCM(HFP)-SCI Intelligent Analogue Addressable 4 Input 4 Output Plant Control

Certificated Products **LPCB Ref. No.**

Module with Short Circuit Isolator
CHQ-POM Intelligent Analogue Addressable Powered Output Module
CHQ-POM(HFP) Intelligent Analogue Addressable Powered Output Module
CHQ-SIM Intelligent Analogue Addressable Single Input Module
CHQ-SIM(HFP) Intelligent Analogue Addressable Single Input Module
CHQ-SOM Intelligent Analogue Addressable Single Output Module
CHQ-SOM(HFP) Intelligent Analogue Addressable Single Output Module
CHQ-SZM2(SCI) Intelligent Analogue Addressable Single Zone Module with Short Circuit Isolator
CHQ-SZM2/DIN(SCI) Intelligent Analogue Addressable Single Zone Module with Short Circuit Isolator (DIN Rail Version)
CHQ-SZM2(HFP)-SCI Intelligent Analogue Addressable Single Zone Module with Short Circuit Isolator

Line Units (Apollo Protocol)
SA4700-102 Soteria Input/Output Unit
SA4700-100 Soteria Switch Monitor
SA4700-103 Soteria Mains Switching Input/Output Unit
SA4700-104 Soteria Twin Input/Output Unit
SA6700-100 Soteria Twin Switch Monitor Plus
SA4700-302 Soteria DIN-Rail Input/Output Unit
SA4700-300 Soteria DIN-Rail Switch Monitor
SA4700-403 Soteria DIN-Rail Mains Switching Input/Output Unit
55000-760 Mini Switch Monitor
55000-797 DIN- RAIL Mains Input/Output Unit
55000-812 DIN-RAIL Zone Monitor Unit
55000-182 DIN-RAIL Sounder Controller (5 Ampreres)
55000-847 Input/Output Unit with Isolator
55000-841 Switch Monitor Plus with Isolator
55000-845 XP95 Zone Monitor with isolator
55000-852 XP95 Sounder Control Unit with isolator
FL6100-600 Soteria Dimension
FL5100-600 Soteria Dimension Specialist
55000-855APO XP95 Analogue Addressable DIN-rail Protocol Translator - single channel

Manual Call Points (Hochiki Protocol)
HCP-E(SCI) Intelligent Analogue Addressable Manual Call point with Short Circuit Isolator (SR Mounting Box)
HCP-E(HFP)-SCI Intelligent Analogue Addressable Manual Call point with Short Circuit Isolator (SR Mounting Box)
SCP-W(DPS) Intelligent Analogue Addressable Type A Weatherproof Manual Call point
SCP-DPS Intelligent Analogue Addressable Type A Manual Call point
HCP-W(SCI) Weatherproof Intelligent Analogue Addressable Manual Call point with Short Circuit Isolator (SR Mounting Box)
HCP-W(HFP)-SCI Weatherproof Intelligent Analogue Addressable Manual Call point with Short Circuit Isolator (SR Mounting Box)

Manual Call Points (Apollo Protocol)
SA5900-908 Intelligent Manual Call Point
SA5900-928MAR Intelligent Marine Manual Call Point
58100-950 Weatherproof Manual Call Point (Red)
58100-910 Discovery Manual Call Point (Red)
55100-905 XP95 Manual Call Point

Short Circuit Isolating Bases
YBN-R/3(SCI)-WHT Short Circuit Isolating Base (White Colour)
YBN-R/3(SCI) Short Circuit Isolating Base (Ivory Colour)
YBN-R/3(HFP)-SCI Short Circuit Isolating Base (Ivory Colour)
YBO-R/SCI(RED) Short Circuit Isolating Base (Red Colour)
> .

2) *For further information on each transmission path compatibility and connectability refer to the manufacturers EN54-13 Manual document refMAN-1401*

A copy of the certificate, confirming the full scope of approval including notes relating to the superscript references in the above table, may be viewed online by clicking on the product name in the associated entry on www.RedBookLive.com

Notifier by Honeywell, Pittway Tecnologica Srl

Via Caboto 19/3, Trieste 34147, Italy
Tel: +44 (0)1444 230300 • Fax: +44 (0)1444 230888
E-mail: sales@notifiersystems.co.uk • Website: www.notifierfiresystems.co.uk

Certificate No: 154e to LPS 1054: Issue 2.1

Certificated Products		LPCB Ref. No.
Notifier NFS2-8 Fire Alarm System	Comprising the following products: Notifier Fire Systems Ltd 124-345-002 NFS2-8, 2 Zone Conventional Control and Indicating Equipment 124-345-004 NFS2-8, 4 Zone Conventional Control and Indicating Equipment 124-345-008 NFS2-8, 8 Zone Conventional Control and Indicating Equipment Morley-IAS Fire Systems ECO 1002 Photoelectric smoke and heat detector ECO 1003 Photoelectric smoke detector ECO 1004T High Temperature 78C heat detector class BS ECO 1005 Heat detector class A1R ECO 1005T Fixed temperature heat detector class A2S KAC Alarm Company Ltd MCP1A-Rxxxxx Indoor/outdoor surface/flush mounting conventional manual call point NS4/R Sounder 4 tone wall mounting conventional (red) NS4/W Sounder 4 tone wall mounting conventional (white) NS14/R Sounder 14 tones wall mounting conventional (red) NS14/W Sounder 14 tones wall mounting conventional (white)	154e/S1

A copy of the certificate, confirming the full scope of approval including notes relating to the superscript references in the above table, may be viewed online by clicking on the product name in the associated entry on www.RedBookLive.com

Siemens Switzerland Ltd

Theilerstrasse 1a, , CH-6300 Zug, Switzerland
Website: www.siemens.com

Certificate No: 126bu to EN 54-13:2005

Fire Detection and Alarm Systems

Certificated Products		LPCB Ref. No.
FC360	Fire Detection System	126bu/01

A copy of the certificate, confirming the full scope of approval including notes relating to the superscript references in the above table, may be viewed online by clicking on the product name in the associated entry on www.RedBookLive.com

Certificate No: 126bs to EN54-13: 2005
Certificate No: 126bs to EN54-13: 2005

Fire Detection and Alarm Systems

Certificated Products	LPCB Ref. No.
FC121-ZA / FC122-ZA / FC123-ZA / FC124-ZA	126bs/01

A copy of the certificate, confirming the full scope of approval including notes relating to the superscript references in the above table, may be viewed online by clicking on the product name in the associated entry on www.RedBookLive.com

Tyco Fire & Security GmbH
Victor Von Bruns-Strasse 21, Neuhausen am Rheinfall 8212, Switzerland
Tel: +44 (0)1462 667700 • Fax: +44 (0)1462 667777
E-mail: deepika.sahni@jci.com • Website: www.tycosafetyproducts-europe.com

Certificate No: 681ar-(cl-1) to EN 54-13: 2005
Certificate No: 681av-(cl-1) to EN 54-13: 2015
Certificate No: 681av-(cl-2) to EN 54-13: 2015

Certificated Products		**LPCB Ref. No.**
FireClass Fire Detection System	Commercial Detectors FC460P Digital Addressable Photoelectric Smoke Detector (4B, 4B-I and 5B) FC460PH Digital Addressable Photoelectric Smoke and Class P Heat Detector (4B, 4B-I and 5B bases) FC460PC Digital Addressable Photoelectric Smoke, Class P Heat and Carbon Monoxide Detector (4B, 4B-I and 5B bases) FC460H Digital Addressable Class P Heat Detector (4B, 4-BI and 5B bases) **Manual Call Points** FC420CP-I Indoor Surface/Flush Mounting Analogue Addressable Type A Call Point with Short Circuit Isolator FC421CP-I Outdoor Surface Mounting Analogue Addressable Type A Call Point with Short Circuit Isolator **Line Units** 4B-I Short Circuit Isolator Base FC410QIO Quad Input/Output Module with Short Circuit Isolator FC410QRM Quad Relay Module with Short Circuit Isolator FC410QMO Quad Monitored Output Module with Short Circuit Isolator FC410CIM Contact Input Module FC410DIM Detector Input Module FC410RIM Relay Interface Module FC410MIM Mini Input Module FC410SNM Sounder Notification Module FC410MIO Mini Input/Output Module FC410BDM Beam Detector Interface Module FC410DDM Detector Driver Module **Alarm Warning Devices** FC410LPSY Addressable Loop Powered Type B Sounder (Red) with Short Circuit Isolator FC410LPAV Addressable Loop Powered Type B Sounder Beacon (Red) with Short Circuit Isolator FC430LPASB Loop Powered Sounder Beacon Base with Short Circuit Isolator FC430LPSB Loop Powered Sounder Base with Short Circuit Isolator FC430SB Analogue Addressable Type A Sounder Base **Visual Alarm Devices** FC410LPBS-R Loop Powered Type A Beacon Sounder with Short Circuit Isolator FC410LPBS-W Loop Powered Type A Beacon/Sounder with Short Circuit Isolator FC410LPBS LP Loop Powered Type B Beacon/Sounder with Short Circuit Isolator FC430LPBSB LP Loop Powered Beacon Sounder Base with Short Circuit Isolator **Control and Indicating Equipment** FC32-1 FireClass (557.200.701) Analogue Addressable Control and Indicating Equipment, 1 Loop, 32 Zone FC64-2 FireClass (557.200.702) Analogue Addressable Control and Indicating Equipment, 2 Loop, 64 Zone FC64-4 FireClass (557.200.703) Analogue Addressable Control and Indicating Equipment, 4 Loop, 64 Zone FC240-2 FireClass (557.200.704) Analogue Addressable Control and Indicating Equipment, 2 Loop, 240 Zone	681ar/01

Certificated Products		LPCB Ref. No.
	FC240-4 FireClass (557.200.705) Analogue Addressable Control and Indicating Equipment, 4 Loop, 240 Zone	

Bases

4B	Universal Mounting Base
4B-I	Isolator Base
5B	Standard Mounting Base

A copy of the certificate, confirming the full scope of approval including notes relating to the superscript references in the above table, may be viewed online by clicking on the product name in the associated entry on www.RedBookLive.com

Certificate No: 681av-(cl-1) to EN 54-13: 2005

Fire Detection and Alarm Systems

Certificated Products		LPCB Ref. No.
Zettler Profile Fire Detection and Alarm System	The Zettler Profile Fire Detection and Alarm System comprises of the following: Zettler Profile Control and Indicating Equipment Pro16xD with Pro16xBB Pro16xD 4-16 Loops Analogue Addressable Control & Indicating Equipment Pro16xBB 4-16 Loops Analogue Addressable Control & Indicating Equipment (Black Box) Pro32xD with Pro32xBB Pro32xD 4-32 Loops Analogue Addressable Control & Indicating Equipment Pro32xBB 4-32 Loops Analogue Addressable Control & Indicating Equipment (Black Box) **Profile Flexible Control and Indicating Equipment** Pro215S 1-2 Loops Analogue Addressable Control & Indicating Equipment, Shallow Housing Pro215D 1-2 Loops Analogue Addressable Control & Indicating Equipment, Deep Housing Pro815D 4-8 Loops Analogue Addressable Control & Indicating Equipment Pro885D 4-8 Loops Analogue Addressable Control & Indicating Equipment Pro815D-CH 4-8 Loops Analogue Addressable Control & Indicating Equipment **Profile Lite Control and Indicating Equipment** Pro215S Lite 1-2 Loop Analogue Addressable Control and Indicating Equipment, Shallow Housing Pro415S Lite 2-4 Loop Analogue Addressable Control and Indicating Equipment, Shallow Housing Pro415D Lite 2-4 Loop Analogue Addressable Control and Indicating Equipment, Deep Housing Pro215S Lite Swiss 1-2 Loop Analogue Addressable Control and Indicating Equipment, Shallow Housing Pro415S Lite Swiss 2-4 Loop Analogue Addressable Control and Indicating Equipment, Shallow Housing The Zettler Profile CIE may be connected to the following Equipment and devices: Control and Indicating Equipment via MX Network MX4000 2-8 Loop Analogue Addressable Control and Indicating Equipment MZX-250 Analogue Addressable Control and Indicating Equipment, 1 loop, 32 Zone MZX-251 Analogue Addressable Control and Indicating Equipment 1 Loop, 32 Zone MZX-252 Analogue Addressable Control and Indicating Equipment 2 Loop, 32 Zone MZX-253 Analogue Addressable Control and Indicating Equipment 2-4 Loop, 64 Zone MZX-254 Analogue Addressable Control and Indicating Equipment 2-4 Loop, 240 Zone **Repeaters** P32AR LT AC 32 Zone AC Repeater, Zettler P32DR LT DC 32 Zone DC Repeater, Zettler P32AR-CH LT AC 32 Zone AC Repeater, Zettler Swiss P32DR-CH LT DC 32 Zone DC Repeater, Zettler Swiss PR8AS Repeater Panel **Commercial Detectors** 830P MX Digital Addressable Photoelectric Smoke Detector 840P MX Digital Addressable Photoelectric Smoke Detector	681av/01

Certificated Products **LPCB Ref. No.**

850P MX digital Addressable Photoelectric Smoke Detector with Short Circuit Isolator
830H MX Digital Addressable Class P Heat Detector
840H MX Digital Addressable Class P Heat Detector
850H MX Digital Addressable Class P Heat Detector with Short Circuit Isolator
830PH MX Digital Addressable Photoelectric Smoke and Class P Heat Detector
840PH MX Digital Addressable Photoelectric Smoke and Class P Heat Detector
850PH MX Digital Addressable Photoelectric Smoke and Class P Heat Detector with Short Circuit Isolator
851PH MX Digital Addressable Photoelectric Smoke and Class P Heat Detector with Short Circuit Isolator [Marine Version]
830PC MX Digital Addressable Photoelectric Smoke, Class P Heat and Carbon Monoxide Detector
850PC MX Digital Addressable Photoelectric Smoke, Class P Heat and Carbon Monoxide Detector with Short Circuit Isolator
835P Photo Detector
835H Heat Detector
835PC 3otec Triple Sensor Detector
835PH Photo Heat Detector
855P Photo Detector with SCI
855H Heat Detector with SCI
855PC 3oTec Triple Sensor Detector with SCI
855PH Photo Heat Detector with SCI
801F MX Addressable Class 2 Flame Detector
801FEX Conventional Class 2 Intrinsically Safe Flame Detector
VESDA VLC-800 High Sensitivity Aspirating Smoke Detector
VESDA VLF-250 High Sensitivity Aspirating Smoke Detector
VESDA VLF-500 High Sensitivity Aspirating Smoke Detector
VESDA VLP High Sensitivity Aspirating Smoke Detector
VESDA VLS High Sensitivity Aspirating Smoke Detector
VESDA Laser Industrial High Sensitivity Aspirating Smoke Detector

Manual Call Points
MCP820 Indoor Surface/Flush Mounting Analogue Addressable Type A Call Point with Short Circuit Isolator
MCP830 Outdoor Surface Mounting Analogue Addressable Type A Call Point with Short Circuit Isolator

Alarm Warning Devices
LPSY865 Symphoni MX Addressable Loop Powered Type B Sounder (Red) with Short Circuit Isolator
LPAV865 Symphoni MX Addressable Loop Powered Type B Sounder Beacon (Red) with Short Circuit Isolator
LPBS865 LP Beacon Symphoni Type B Sounder IP65, Red Housing with Short Circuit Isolator
P80AVW Zettler Addressable Type A Indoor Wall Sounder Beacon VAD with Short Circuit Isolator, White Housing
P80AVR Zettler Addressable Type A Indoor Wall Sounder Beacon VAD with Short Circuit Isolator, Red Housing
P80AVB Zettler Addressable Type A Indoor Base Sounder Beacon VAD Standard Power with Short Circuit Isolator, Clear Housing
P81AVB Zettler Addressable Type A Base Sounder Beacon VAD High Power with Short Circuit Isolator, Clear Housing
P80SB Zettler Addressable Type A Indoor Base Sounder with Short Circuit Isolator, White Housing
P80AIB Zettler Addressable Type A Indoor Base Sounder Beacon VID with Short Circuit Isolator (Red Flash), Clear Housing
P80SW Zettler Addressable Type A Wall Sounder with Short Circuit Isolator, White Housing
P80SR Zettler Addressable Type A Indoor Wall Sounder with Sort Circuit Isolator, Red Housing
P80AIW Zettler Addressable Type A Indoor Wall Sounder Beacon VID with Short Circuit Isolator, White Housing
P80AIR Zettler Addressable Type A Indoor Wall Sounder Beacon VID with Short Circuit Isolator, Red Housing
P85SR Zettler Addressable Type B Outdoor Wall Sounder IP with Short Circuit Isolator, Red Housing
P85AIR Zettler Addressable Type B Outdoor Wall Sounder Beacon VID IP with Short Circuit Isolator, Red Housing
80DSB Zettler Type A Indoor Detector Base Sounder, White Housing
P85CAV Zettler Addressable Type B Outdoor Wall Sounder Beacon VAD BC with Short Circuit Isolator, Red Housing

Certificated Products		LPCB Ref. No.

P80CAVB Addressable Type A Indoor Base Sounder Beacon VAD BC with Short Circuit Isolator, Clear housing
P85AVR Addressable Type B Outdoor Wall Sounder Beacon VAD Weatherproof with Short Circuit Isolator, Red Housing
P82AVB Addressable Type A Indoor Open Class Base Sounder VAD with SCI, White Flash, Clear Housing

Line Units
RIM800 Relay Interface Module
MIM800 Mini Input Module
CIM800 Contact Input Module
MIO800 Small Addressable Multi Input/Output Module
QIO850 Quad Input/Output Module with Short Circuit isolator
QRM850 Quad Relay Module with Short Circuit Isolator
QMO850 Quad Monitored Output Module with Short Circuit Isolator
BDM800 Loop Powered Beam Detector Interface Module
SNM800 Sounder Notification Module
LAV800 Extinguishing Input Module
HVR800 High Voltage Relay Module

Power Supplies
PSU-A17 Addressable 17Ah Power Supply Unit
PSU-A38 Addressable 38Ah Power Supply Unit

Bases
4B-I Short Circuit Isolator Base
802SB Analogue Addressable Type A Sounder Base
>>
2) *For further information on each transmission path compatibility and connectability refer to the manufacturers EN54-13 Manual for profile panels document ref: PROFILE-PRO-SYS-EN54-13.*

A copy of the certificate, confirming the full scope of approval including notes relating to the superscript references in the above table, may be viewed online by clicking on the product name in the associated entry on www.RedBookLive.com

Certificate No: 681av-(cl-2) to EN 54-13: 2005

Fire Detection and Alarm Systems

Certificated Products		LPCB Ref. No.
FireClass Profile Fire Detection and Alarm System	The FireClass Fire Detection and Alarm System comprises of the following:	681av/01

FireClass Control and Indicating Equipment
FC702S 1-2 Loops Analogue Addressable Control & Indicating Equipment, Shallow Housing
FC702D 1-2 Loops Analogue Addressable Control & Indicating Equipment, Deep Housing
FC718D 4-8 Loops Analogue Addressable Control & Indicating Equipment
FC708D 4-8 Loops Analogue Addressable Control & Indicating Equipment
FC602S 1-2 Loop Analogue Addressable Control and Indicating Equipment, Shallow Housing
FC604S 2-4 Loop Analogue Addressable Control and Indicating Equipment, Shallow Housing
FC602S Scandinavian 2-4 Loop Analogue Addressable Control and Indicating Equipment, Deep Housing
FC604S Scandinavian 1-2 Loop Analogue Addressable Control and Indicating Equipment, Shallow Housing

Repeaters
FC32AR 32 Zone AC Repeater
FC32DR 32 Zone DC Repeater
FC8AS Repeater Panel

Commercial Detectors
FC460P MX Digital Addressable Photoelectric Smoke Detector
FC460H MX Digital Addressable Class P Heat Detector
FC460PH MX Digital Addressable Photoelectric Smoke and Class P Heat Detector
FC460PC MX Digital Addressable Photoelectric Smoke, Class P Heat and Carbon Monoxide Detector
VESDA VLC-800 High Sensitivity Aspirating Smoke Detector

Certificated Products **LPCB Ref. No.**

VESDA VLF-250 High Sensitivity Aspirating Smoke Detector
VESDA VLF-500 High Sensitivity Aspirating Smoke Detector
VESDA VLP High Sensitivity Aspirating Smoke Detector
VESDA VLS High Sensitivity Aspirating Smoke Detector
VESDA Laser Industrial High Sensitivity Aspirating Smoke Detector

Manual Call Points
FC420CP-I Indoor Surface/Flush Mounting Analogue Addressable Type A Call Point with Short Circuit Isolator
FC421CP-I Outdoor Surface Mounting Analogue Addressable Type A Call Point with Short Circuit Isolator

Alarm Warning Devices
FC410LPSY Symphoni MX Addressable Loop Powered Type B Sounder (Red) with Short Circuit Isolator
FC410LPSYR Symphoni MX Addressable Loop Powered Type A Sounder (Red) with Short Circuit Isolator
FC410LPSYW Symphoni MX Addressable Loop Powered Type A Sounder (White) with Short Circuit Isolator
FC410LPAV Symphoni MX Addressable Loop Powered Type B Sounder Beacon (Red) with Short Circuit Isolator
FC410LPAVR Symphoni MX Addressable Loop Powered Type B Sounder Beacon (Red) with Short Circuit Isolator
FC410LPAVW Symphoni MX Addressable Loop Powered Type B Sounder Beacon (White) with Short Circuit Isolator
FC410LPBSR L/P Beacon Symphoni Type A Sounder with Short Circuit Isolator - Red Housing
FC410LPBSW L/P Beacon Symphoni Type A Sounder with Short Circuit Isolator - White Housing
FC410LPBS-LP Beacon Symphoni Type B Sounder IP65, Red Housing with Short Circuit Isolator
FC430LPBS-LP Loop Powered Beacon Sounder Base with Short Circuit Isolator (Type A Mounting Flange)
FC440AVW FireClass Addressable Type A Indoor Wall Sounder Beacon VAD with Short Circuit Isolator, White Housing
FC440AVR FireClass Addressable Type A Indoor Wall Sounder Beacon VAD with Short Circuit Isolator, Red Housing
FC440AVB FireClass Addressable Type A Indoor Base Sounder Beacon VAD Standard Power with Short Circuit Isolator, Clear Housing
FC441AVB FireClass Addressable Type A Base Sounder Beacon VAD High Power with Short Circuit Isolator, Clear Housing
FC440SB FireClass Addressable Type A Indoor Base Sounder with Short Circuit Isolator, White Housing
FC440AIB FireClass Addressable Type A Indoor Base Sounder Beacon VID with Short Circuit Isolator (Red Flash), Clear Housing
FC440SW FireClass Addressable Type A Wall Sounder with Short Circuit Isolator, White Housing
FC440SR FireClass Addressable Type A Indoor Wall Sounder with Sort Circuit Isolator, Red Housing
FC440AIW FireClass Addressable Type A Indoor Wall Sounder Beacon VID with Short Circuit Isolator, White Housing
FC440AIR FireClass Addressable Type A Indoor Wall Sounder Beacon VID with Short Circuit Isolator, Red Housing
FC445SR FireClass Addressable Type B Outdoor Wall Sounder IP with Short Circuit Isolator, Red Housing
FC445AIR FireClass Addressable Type B Outdoor Wall Sounder Beacon VID IP with Short Circuit Isolator, Red Housing
FC440DSB FireClass Type A Indoor Detector Base Sounder, White Housing
FC445CAV FireClass Addressable Type B Outdoor Wall Sounder Beacon VAD BC with Short Circuit Isolator, Red Housing
FC440CAVB Addressable Type A Indoor Base Sounder Beacon VAD BC with Short Circuit Isolator, Clear housing
FC445AVR Addressable Type B Outdoor Wall Sounder Beacon VAD Weatherproof with Short Circuit Isolator, Red Housing

Line Units
FC410RIM Relay Interface Module
FC410MIM Mini Input Module
FC410CIM Contact Input Module
FC410MIO Small Addressable Multi Input/Output Module
FC410QIO Quad Input/Output Module with Short Circuit isolator

Certificated Products **LPCB Ref. No.**

FC410QRM	Quad Relay Module with Short Circuit Isolator
FC410QMO	Quad Monitored Output Module with Short Circuit Isolator
FC410BDM	Loop Powered Beam Detector Interface Module
FC410SNM	Sounder Notification Module

Bases

4B-I	Short Circuit Isolator Base
FC430SB	Analogue Addressable Type A Sounder Base

> .

2) *For further information on each transmission path compatibility and connectability refer to the manufacturers EN54-13 Manual for profile panels document ref: FC-FC700-SYS-EN54/13.*

A copy of the certificate, confirming the full scope of approval including notes relating to the superscript references in the above table, may be viewed online by clicking on the product name in the associated entry on www.RedBookLive.com

Control and Indicating Equipment (CIE) is a component of a fire detection and alarm system through which other components may be connected to it such as detectors, manual call points, sounders, routing equipment, voice alarm equipment and fire protection equipment. It is supplied with power from power supply equipment which may be housed within the CIE enclosure or a separate enclosure.

CIE is used to receive and send out signals that are related to fire. CIE also monitors the system for faults (short and open circuit or power supply faults) and indicates the status of the fire detection and alarm system.

CIE designed to meet a European standard such as EN 54-2 or international standard such as ISO 7240-2 has certain options with requirements. For example, it may be designed to provide a signal to fire protection equipment or have dependencies on more than one alarm signal. Some CIEs have other functions which are not specified in the standard. These additional features are normally assessed such that they do not jeopardise compliance.

The choice of CIE is dependent on the specific applications as recommended in the application guidelines for a specific job or building.

Some CIEs have associated repeaters or mimic panels. These are normally used to repeat the indications given on the main CIE and sometimes they have control functions such as silencing sounders. There are no published standards that these repeaters or mimics can be tested against.

Voice Alarm Control and Indicating Equipment (VACIE) is a component of the fire alarm system which receives signals from the CIE or via manual control in order to activate messages via loudspeakers. VACIE may also include emergency microphone to broadcast live messages. The approval processes for this type of equipment is outlined in scheme document SD040.

This section lists Control and Indicating Equipment, Voice Alarm Control and Indicating Equipment approved for use in fire detection and fire alarm systems in buildings. Repeaters or mimics and power supply equipment listed in this section are only approved with their associated CIE and are subjected to the same environmental tests as the CIE. The approval processes for this type of equipment is outlined in scheme document SD040.

Products listed in this section have been approved to:

EN 54-2 *Control and Indicating Equipment;*
EN 54-4 *Power supply equipment;*
ISO 7240-2 *Control and Indicating Equipment*;
ISO 7240-4 *Power supply equipment;*
EN 54-16 *Voice Alarm Control and Indicating Equipment.*

Audit:
Regular product auditing and regular factory inspections are carried out by LPCB ensuring high manufacturing standards and continued compliance with the applicable product standard.

Notes:
1. Since LPCB uses national and international standards for the listing of products, in some instances the requirements of these standards may conflict with the recommendations of local codes of practice. We recommend that specifiers seek advice from the relevant local authorities and amend their specifications accordingly.

2. Where the Control and Indicating Equipment is of modular construction, and the use of certain modules (or printed circuit boards PCBs) is optional, these are listed with the applicable equipment.

Adkinns Inc.

5063 Commercial Circle, Concord CA 94520, USA
Tel: +1 (650) 457 4580
Website: www.adkinns.com

Certificate No: 1426g-(cl-5) to EN 54-2:1997 + A1:2006 & EN 54-4:1997 + A1:2002 + A2:2006

Control & Indicating Equipment

Certificated Products		LPCB Ref. No.
PYR-FA-CHA-1L	Single Loop Analogue Addressable Control and Indicating Equipment (Branded as Pyronics) Incorporating the following modules: CHA-2L_IO IO Board CHA-2L_B Monitoring Board (B Board) CHA-2L_A Main CPU Board (A Board) CHA-2L_PS Power Supply CHA-2L_IB Zone Indication Board CHA-2L_KB Keyboard CHA-2L_LP Loop SPU Board Incorporating the following optional modules: CHA-2L_COM Communication Board Certified with the following options with requirements from EN54-2: 7.8 Output to fire alarm devices 7.10.1 Output type A 7.11 Delays to outputs 8.3 Fault signals from points 9.5 Disablement of addressable point 10 Test condition *Notes:* *1. This product approval does not constitute compliance with the fire detection and alarm systems requirements of EN54-13.* *2. Scope of approval does not include the operation of the network functionality.*	1426g/01
PYR-FA-CHA-ML	Single Loop Analogue Addressable Control and Indicating Equipment (Branded as Pyronics) Incorporating the following modules: CHA-ML_CB Main Control Board CHA-ML_IO IO Board CHA-ML_PMC Power Management Control Board LRS-75-24 Meanwell Power Supply Certified with the following options with requirements from EN54-2: 7.8 Output to fire alarm devices 7.11 Delays to outputs 8.3 Fault signals from points 9.5 Disablement of addressable points 10 Test condition *Notes:* *1. This product approval does not constitute compliance with the fire detection and alarm systems requirements of EN54-13.*	1426g/02

A copy of the certificate, confirming the full scope of approval including notes relating to the superscript references in the above table, may be viewed online by clicking on the product name in the associated entry on www.RedBookLive.com

Advanced Electronics Limited

The Bridges, Balliol Business Park, Longbenton, Newcastle-Upon-Tyne NE12 8EW, United Kingdom
Tel: +44 (0)345 894 7000 • Fax: +44 (0)1670 707 222
E-mail: pbrown@advancedco.com • Website: www.advancedco.com

Certificate No: 544b to EN54-2: 1997+A1:2006 EN54-4: 1997+A1-2002+A2:2006

Control and indicating equipment

Certificated Products		**LPCB Ref. No.**
QuickZone	2 and 4 Zone Conventional Control and Indicating Equipment	544b/01
	QuickZone 2 (QZ-2) Incorporating as modular units: TPC A01 QuickZone 2 (QZ-2) main PCB applicable on 2 zone CIE only TPC A02 QuickZone LED display PCB PSM1.5 24 Power supply 1.5A rated Certified with the following options with requirements from EN 54 Part 2: 7.8 Output to fire alarm devices 7.12.1 Dependency on more than one alarm signal type A 10 Test condition QuickZone 4 (QZ-4) Incorporating as modular units: TPC A01 Quick Zone 4 (QZ-4) main PCB applicable on 4 zone CIE only TPC A02 QuickZone LED display PCB PSM1.5 24 Power supply 1.5A rated Certified with the following options with requirements from EN 54 Part 2: 7.8 Output to fire alarm devices 7.12.1 Dependency on more than one alarm signal type A 10 Test condition *Note:* *1. This product approval does not constitute compliance with the fire detection and alarm systems requirements of EN 54-13.*	
QuickZone XL	4, 8 and 12 Zone conventional control and indicating equipment	544b/02
	QuickZoneXL 4 Conventional Control Panel (QZXL-4) Incorporating as modular units: TPCA01 X4 QuickZoneXL 4 Zone Main PCB TPCA03 QuickZoneXL Display Board PSM3.0 24 Power Supply QuickZoneXL 8 Conventional Control Panel (QZXL-8) Incorporating as modular units: TPCA01 X4 QuickZoneXL 4 Zone Main PCB TPCA03 QuickZoneXL Display Board QZXL-ZEC QuickZoneXL Standard 4 Zone Extension Board PSM3.0 24 Power Supply QuickZoneXL 8 Conventional Control Panel (QZXL-8HS) Incorporating as modular units: TPCA01 X4 QuickZoneXL 4 Zone Main PCB TPCA03 QuickZoneXL Display Board QZXL-HSZEC QuickZoneXL High Spec 4 Zone Extension Board PSM3.0 24 Power Supply QuickZoneXL 12 Conventional Control Panel (QZXL-12) TPCA01 X4 QuickZoneXL 4 Zone Main PCB TPCA03 QuickZoneXLDisplay Board QZXL-ZEO QuickZoneXL Standard 4 Zone Extension Board QZXL-ZEC QuickZoneXL High Spec 4 Zone Extension Board PSM3.0 24 Power Supply QuickZoneXL 12 Zone Conventional Control Panel (QZXL-12HS) TPCA01 X4 QuickZoneXL 4 Zone Main PCB TPCA03 QuickZoneXL Display Board QZXL-HSZEC Two QuickZoneXL Standard 4 Zone Extension Board PSM3.0 24 Power Supply Certified with the following options with requirements from EN 54 Part 2: 7.8 Output to fire alarm devices 7.11 Delays to outputs 7.12.1 Dependency on more than one alarm signal type A 7.12.2 Dependency on more than one alarm signal type B 7.12.3 Dependency on more than one alarm signal type C 10 Test condition *Note:* *1. This product approval does not constitute compliance with the fire*	

Certificated Products		LPCB Ref. No.
	detection and alarm systems requirements of EN 54-13.	
QuickZone XL 16-32	16, 24 and 32 Zone Conventional Control and Indicating Equipment QuickZone XL16 (QZXL-16) 16 Zone Conventional Control Panel Incorporating as modular units: TPCA10 32 Zone LED display PCB TPCA11-16 16 Zone Main PCB TPCA12 Power supply PCB and as optional modules TPCR01 Relay PCB TPCR03 Isolate Switch PCB TPCA09 Sounder Card PCB TPCA08 Output Card PCB TPCA05 XLEN Communications Board QuickZone XL24 (QZXL-24) 24 Zone Conventional Control Panel Incorporating as modular units: TPCA10 32 Zone LED display PCB TPCA11-24 24 Zone Main PCB TPCA12 Power supply PCB and as optional modules TPCR01 Relay PCB TPCR03 Isolate Switch PCB TPCA09 Sounder Card PCB TPCA08 Output Card PCB TPCA05 XLEN Communications Board QuickZone XL32 (QZXL-32) 32 Zone Conventional Control Panel Incorporating as modular units: TPCA10 32 Zone LED display PCB TPCA11-32 32 Zone Main PCB TPCA12 Power supply PCB and as optional modules TPCR01 Relay PCB TPCR03 Isolate Switch PCB TPCA09 Sounder Card PCB TPCA08 Output Card PCB TPCA05 XLEN Communications Board Certified with the following options with requirements from EN 54 Part 2: 7.8 Output to fire alarm devices 7.9.1 Output to fire alarm routing equipment 7.11 Delays to outputs 7.12.1 Dependence on more than one alarm signal (Type A) 7.12.2 Dependence on more than one alarm signal (Type B) 7.12.3 Dependence on more than one alarm signal (Type C) 10 Test condition Note: 1. This product approval does not constitute compliance with the fire detection and alarm systems requirements of EN 54-13.	544b/03

A copy of the certificate, confirming the full scope of approval including notes relating to the superscript references in the above table, may be viewed online by clicking on the product name in the associated entry on www.RedBookLive.com

Al Rayan Security & Safety Trading

Warehouse No, 12, Al Qusais Industrial Area 4, P O Box 233949, Dubai, United Arab Emirates
Tel: +971 42630396 • Fax: +971 42630397
E-mail: rayandxb@eim.ae • Website: www.rayandxb.ae

Certificate No: 1174e-(cl-6) to EN54-2: 1997 + A1: 2006 & EN54-4: 1997 + A1: 2002 + A2: 2006
Certificate No: 1174j-(cl-2) to EN54-2: 1997 + A1: 2006 & EN54-4: 1997 + A1: 2002 + A2: 2006

Control and indicating equipment

Certificated Products		**LPCB Ref. No.**
SC-6831/16	16 Zone Conventional Control and Indicating Equipment	1174e/01
	Incorporating the following units: VSL2.908.004 16 Zone Control Board VSL2.908.007 16 Zone Display Board PD-100-24 AC/DC Power Supply Module VSL2.908.005 16 Zone Signal Output Board	
	Certified with the following Options with requirements from EN 54-2:1997 7.8 Output to fire alarm device(s) 7.11 Delay to outputs 10 Test condition	
	1. This approval does not constitute compliance with the fire detection and alarm systems requirements of EN 54-13.	
SC-6831/8	8 Zone Conventional Control and Indicating Equipment	1174e/02
	Incorporating the following units: VSL2.908.042 8 Zone Control Board VSL2.908.043 8 Zone Display Board PD-100-24 AC/DC Power Supply Module	
	Certified with the following Options with requirements from EN 54-2:1997 7.8 Output to fire alarm device(s) 7.11 Delay to outputs 10 Test condition	
	1. This approval does not constitute compliance with the fire detection and alarm systems requirements of EN 54-13.	
SC-6831/4	4 Zone Conventional Control and Indicating Equipment	1174e/03
	Incorporating the following units: VSL2.908.044 4 Zone Control Board VSL2.908.045 4 Zone Display Board PD-100-24 AC/DC Power Supply Module	
	Certified with the following Options with requirements from EN 54-2:1997 7.8 Output to fire alarm device(s) 7.11 Delay to outputs 10 Test condition	
	1. This approval does not constitute compliance with the fire detection and alarm systems requirements of EN 54-13.	
SC-6831/2	2 Zone Conventional Control and Indicating Equipment	1174e/04
	Incorporating the following units: VSL2.908.046 2 Zone Control Board VSL2.908.047 2 Zone Display Board PD-100-24 AC/DC Power Supply Module	
	Certified with the following Options with requirements from EN 54-2:1997 7.8 Output to fire alarm device(s) 7.11 Delay to outputs 10 Test condition	
	Note: *1. This approval does not constitute compliance with the fire detection and alarm systems requirements of EN 54-13.*	

A copy of the certificate, confirming the full scope of approval including notes relating to the superscript references in the above table, may be viewed online by clicking on the product name in the associated entry on www.RedBookLive.com

Certificate No: 1174j-(cl-2) to EN54-2: 1997 + A1: 2006 & EN54-4: 1997 + A1: 2002 + A2: 2006

Control and indicating equipment

Certificated Products		**LPCB Ref. No.**
SI-6847	4 Loop Analogue Addressable Control and Indicating Equipment Incorporating the following modules: VSL2.908.146 Main Board VSL2.908.149 Indication board VSL2.908.155 Terminal board VSL2.908.162 Control Board VSL2.908.153 Loop Card VSL2.908.152 I/O Board VSL2.908.169 Power Board VSL7-820-150 Zone Board VSL7-820-154 Network Card LRS-150-24 MEAN-WELL Power Supply module Certified with the following option with requirements for EN54-2: 7.8 Output to fire alarm devices 7.10.1 Outputs to fire protection equipment (Type A) 7.10.2 Outputs to fire protection equipment (Type B) 7.10.3 Outputs to fire protection equipment (Type C) 7.10.4 Fault monitoring of fire protection equipment 7.11 Delays to outputs 7.12.1 Dependencies on more than one alarm signal (Type A dependency) 7.12.2 Dependencies on more than one alarm signal (Type B dependency) 7.12.3 Dependencies on more than one alarm signal (Type C dependency) 7.13 Alarm Counter 9.5 Disablement of addressable point 10 Test condition *Notes:* *1. The scope of the approval does not include the operation of the network functionality* *2. This approval does not constitute compliance with the fire detection and alarm systems requirements of EN54-13.*	1174j/01

A copy of the certificate, confirming the full scope of approval including notes relating to the superscript references in the above table, may be viewed online by clicking on the product name in the associated entry on www.RedBookLive.com

---

Ampac Pty Ltd

7 Ledgar Road, Balcatta 6021, Australia
Tel: +618 (9242) 3333 • Fax: +618 (9242) 3334
E-mail: askellham@ampac.net • Website: www.ampac.net

Certificate No: 966a to EN 54-2: 1997 + A1: 2006, EN 54-4: 1997 + A1: 2002 + A2: 2006
Certificate No: 966b to EN 54-2: 1997 + A1: 2006 and EN 54-4: 1998 + A1: 2002 + A2: 2006
Certificate No: 966c to EN 54-4:1997 + A1:2002 + A2:2006 & EN 54-16:2008
Certificate No: 966d to AS4428.16:2020, AS7240.4:2018 & AS4428.4:2016

Certificated Products		**LPCB Ref. No.**
LoopSense 8281-0105	One loop, 32 Zone analogue addressable control and indicating equipment. Incorporating the following units: BRD82MBA Main Termination Board BRD82ZICC Zone Interface & Control Card PSU2397 Power Supply Unit ASS82ZICC Zone Indicator & LCD Assembly (8210)	966a/01

Certificated Products		LPCB Ref. No.
	Certificated with the following options with requirements from EN54-2: 7.8 Output to fire alarm devices 7.9.1 Output to fire alarm routing equipment 7.9.2 Alarm confirmation input from fire alarm routing equipment 7.11 Delay to outputs 7.12.1 Dependencies on more than one alarm signal - Type A 7.12.2 Dependencies on more than one alarm signal - Type B 7.12.3 Dependencies on more than one alarm signal - Type C 8.3 Fault signal from points 8.9 Output to fault warning routing equipment 9.5 Disablement of each addressable point 10 Test condition *Note:* *1. This product approval does not constitute compliance with the fire detection and alarm systems requirements of EN 54-13.*	
LoopSense 8281-0205	Two loop, 32 Zone analogue addressable control and indicating equipment. Incorporating the following units: BRD82MBA Main Termination Board BRD82ZICC Zone Interface & Control Card PSU2397 Power Supply Unit 8210-0001 2nd loop activation Key BRD82LSD Loop Activation Board ASS82ZICC Zone Indicator & LCD Assembly (8210) Certificated with the following options with requirements from EN54-2: 7.8 Output to fire alarm devices 7.9.1 Output to fire alarm routing equipment 7.9.2 Alarm confirmation input from fire alarm routing equipment 7.11 Delay to outputs 7.12.1 Dependencies on more than one alarm signal Type A 7.12.2 Dependencies on more than one alarm signal Type B 7.12.3 Dependencies on more than one alarm signal Type C 8.3 Fault signal from points 8.9 Output to fault warning routing equipment 9.5 Disablement of each addressable point 10 Test condition *Note:* *1. This product approval does not constitute compliance with the fire detection and alarm systems requirements of EN 54-13.*	966a/02

A copy of the certificate, confirming the full scope of approval including notes relating to the superscript references in the above table, may be viewed online by clicking on the product name in the associated entry on www.RedBookLive.com

Certificate No: 966b to EN 54-2: 1997 + A1: 2006, EN 54-4: 1997 + A1: 2002 + A2: 2006

Control and indicating equipment

Certificated Products		LPCB Ref. No.
SP1M FireFinder Plus	1-4 Loop, 32 Zone Analogue Addressable Control and Indicating Equipment (with Apollo Protocol) Incorporating as modular units: BRD86BPSC4-B FFP Brigade & Power supply control board (8610) BRD86DLTB4-C FFP Dual loop termination board (8610) BRD86FPB5-B FFP Front panel board EN54 (8610) BRD86MBA4-A FFP Main board LCD (8610) BRD86MCPU4-B FFP Main 64MB CPU card (8610) BRD86SCB3-A FFP Slave CPU card (8610) PSU1888 Power supply 5A (8610) Incorporating as optional modules: BRD43EZC2-A 8 Zone conventional module (4310) BRD43ZAMC2-A 32 Zone alarm MIMIC internal card (4310) Certified with the following options with requirements from EN 54-2: 7.8 Output to fire alarm devices 7.9.1 Output to fire alarm routing equipment	966b/01

Certificated Products		LPCB Ref. No.
	7.9.2 Alarm confirmation input from fire alarm routine equipment 7.11 Delays to outputs 7.12.1 Dependencies on more than one alarm signal - Type A 7.12.2 Dependencies on more than one alarm signal - Type B 7.12.3 Dependencies on more than one alarm signal - Type C 8.3 Fault signal from points 8.9 Output to fault warning routing equipment 9.5 Disablement of each addressable point 10 Test Condition *Notes:* *1. This product approval does not constitute compliance with the fire detection and alarm systems requirements of EN54-13.* *2. Available in marketing model/part numbers 8681-0108, 8681-0208, 8681-0308 & 8681-0408.*	
SP1X FireFinder Plus	1-4 Loop, Analogue Addressable Control and Indicating Equipment (with Apollo Protocol) Incorporating the following modular units: BRD86BPSC4-B FFP Brigade & Power supply control board (8610) BRD86DLTB4-C FFP Dual loop termination board (8610) BRD86FPB5-B FFP Front panel board EN54 (8610) BRD86MBA4-A FFP Main board LCD (8610) BRD86MCPU4-B FFP Main 64MB CPU card (8610) PSU1888 Power supply 5A Slim RS-150-27 (8610) Incorporating as optional modules: BRD43EZC2-A 8 Zone conventional module (4310) BRD43ZAMC2-A 32 Zone alarm MIMIC internal card (4310) BRD86SCB3-A FFP Slave CPU card (8610) BRD86NIC1-A FFP Network Interface Card BRD43HLI3-A High Level Interface Card Certified with the following options with requirements from EN 54-2: 7.8 Output to fire alarm devices 7.9.1 Output to fire alarm routing equipment 7.9.2 Alarm confirmation input from fire alarm routine equipment 7.11 Delays to outputs 7.12.1 Dependencies on more than one alarm signal - Type A 7.12.2 Dependencies on more than one alarm signal - Type B 7.12.3 Dependencies on more than one alarm signal - Type C 8.3 Fault signal from points 8.9 Output to fault warning routing equipment 9.5 Disablement of each addressable point 10 Test Condition *Notes:* *1. This product approval does not constitute compliance with the fire detection and alarm systems requirements of EN54-13.* *2. Available in marketing model/part numbers 8681-0110, 8681-0210, 8681-0310 & 8681-0410.*	966b/05
SP8X FireFinder Plus	1-8 Loop, 64 Zone 5A Analogue Addressable Control and Indicating Equipment (with Apollo Protocol) Incorporating the following modular units: BRD86BPSC4-B FFP Bridge and power supply control board (8610) BRD86DLTB4-C FFP Dual loop termination board (8610) BRD86FPB5-B FFP Front panel board EN54 (8610) BRD86MBA4-A FFP Main board LCD (8610) BRD86MCPU4-B FFP Main 64MB CPU card (8610) PSU1888 Power supply 5A slim RS-150-27 (8610) BRD86FEPB3-A FFP Expansion panel board (8610) - Required in the 5 to 8 Loop CIEs Incorporating as optional modules: BRD43EZC2-A 8 Zone conventional module (4310) BRD43ZAMC2-A 32 Zone alarm MIMIC internal card (4310) BRD86SCB3-A FFP Slave CPU card (8610) BRD86NIC1-A FFP Network Interface Card BRD43HLI3-A High Level Interface Card Certified with the following options with requirements from EN 54-2: 7.8 Output to fire alarm devices 7.9.1 Output to fire alarm routing equipment 7.9.2 Alarm confirmation input from fire alarm routine equipment	966b/09

Certificated Products		LPCB Ref. No.
	7.11 Delays to outputs 7.12.1 Dependencies on more than one alarm signal - Type A 7.12.2 Dependencies on more than one alarm signal - Type B 7.12.3 Dependencies on more than one alarm signal - Type C 8.3 Fault signal from points 8.9 Output to fault warning routing equipment 9.5 Disablement of each addressable point 10 Test Condition *Notes:* *1. This product approval does not constitute compliance with the fire detection and alarm systems requirements of EN54-13.* *2. Available in marketing model/part numbers 8681-0113, 8681-0213, 8681-0313, 8681-0413, 8681-0513, 8681-0613, 8681-0713 & 8681-0813.*	

A copy of the certificate, confirming the full scope of approval including notes relating to the superscript references in the above table, may be viewed online by clicking on the product name in the associated entry on www.RedBookLive.com

Certificate No: 966c to EN 54-2: 1997 + A1: 2006, EN 54-4: 1997 + A1: 2002 + A2: 2006

Certificated Products		LPCB Ref. No.
13U EvacU Elite	Wall Mounted Voice Alarm Control and Indicating Equipment (VACIE) Incorporating the following mandatory modules: BRD63PDB1-A Power Distribution Board BRD63ABB1-A Amplifier Backplane Board BRD63CPU1-A Distribution CPU BRD63GUI1-A Graphical User Interface Primary ASS63CPU-NET EvacU Elite CPU Network incorporating: BRD63NIC1-A Network Interface Card ASS63PSU12M Primary Power Supply incorporatingBRD63PCC1-A Power Control Card - Primary RCB-1600-24 Meanwell Power Supply Network SFP Modules OEM3087 IC SFP VDSL Transceiver Module SFP-V5311-L-O "COPPER" OEM3088 IC SFP VDSL Transceiver Module SFP-V5311-L-R "COPPER" Incorporating the following optional modules: BRD63ILC1-A Quad Radial Line CardBRD63LILC1-A Dual Loop Line Card BRD63LPA1-A Dual 25W Amplifier BRD63LPA1-B 50W Amplifier BRD63MIC1-A Multi-Purpose Interface Card BRD63MOC1-A Multi-Purpose Output Card BRD63GUI1-B Graphical User Interface Secondary ASS63PSU12S Secondary Power Supply incorporating BRD63PCC1-B Power Control Card - Secondary RCB-1600-24 Meanwell Power Supply Certified with the following options with requirements from EN 54-16: 7.3 Audible warning 7.4 Delays to entering the voice alarm condition 7.5 Phased evacuation 7.6.2 Manual silencing of the voice alarm condition 7.7.2 Manual reset of the voice alarm condition 7.8 Output to fire alarm devices 7.9 Voice alarm condition output 8.3 Indication of faults related to the transmission path to the CIE 8.4 Indication of faults related to voice alarm zones 9 Disabled condition 10 Voice alarm manual control 12 Emergency microphone(s) *Notes:* *1. The ASS63WIPM Primary warden intercom phone, ASS63WIPS Radial WIP Handset and ASS63LWIP Loop WIP Handset were connected to the VACIE as ancillary equipment to verify the functionality only.* *2. The OEM3095 EVACU Elite SFP Single Mode Single Fibre Side A (SFP-GE-BX, BIDI, 1000Base, 1310TX/1490nmRX, SMF, 10km, LC simplex, DOM) and OEM3096 EVACU Elite SFP Single Mode Single Fibre Side B (SFP-GE-BX, BIDI, 1000Base,*	966c/01

Certificated Products		LPCB Ref. No.
	1490TX/1310nmRX, SMF, 10km, LC simplex, DOM) were functionally tested but were not subjected to the environmental and EMC tests.	
24U EvacU Elite	Floor Mounted Voice Alarm Control and Indicating Equipment (VACIE)Incorporating the following mandatory modules: BRD63PDB1-A Power Distribution Board BRD63ABB1-A Amplifier Backplane Board BRD63CPU1-A Distribution CPU BRD63GUI1-A Graphical User Interface Primary ASS63CPU-NET EvacU Elite CPU Network incorporating: BRD63NIC1-A Network Interface Card ASS63PSU12M Primary Power Supply incorporatingBRD63PCC1-A Power Control Card - Primary RCB-1600 -24 Meanwell Power Supply Network SFP Modules OEM3087 IC SFP VDSL Transceiver Module SFP-V5311-L-O "COPPER" OEM3088 IC SFP VDSL Transceiver Module SFP-V5311-L-R "COPPER" Incorporating the following optional modules: BRD63ILC1-A Quad Radial Line CardBRD63LILC1-A Dual Loop Line Card BRD63LPA1-A Dual 25W Amplifier BRD63LPA1-B 50W Amplifier BRD63MIC1-A Multi-Purpose Interface Card BRD63MOC1-A Multi-Purpose Output Card BRD63GUI1-B Graphical User Interface Secondary ASS63PSU12S Secondary Power Supply incorporating BRD63PCC1-B Power Control Card - Secondary RCB-1600-24 Meanwell Power Supply Certified with the following options with requirements from EN 54-16: 7.3 Audible warning 7.4 Delays to entering the voice alarm condition 7.5 Phased evacuation 7.6.2 Manual silencing of the voice alarm condition 7.7.2 Manual reset of the voice alarm condition 7.8 Output to fire alarm devices 7.9 Voice alarm condition output 8.3 Indication of faults related to the transmission path to the CIE 8.4 Indication of faults related to voice alarm zones 9 Disabled condition 10 Voice alarm manual control 12 Emergency microphone(s) *Notes:* *1. The ASS63WIPM Primary warden intercom phone, ASS63WIPS Radial WIP Handset and ASS63LWIP Loop WIP Handset were connected to the VACIE as ancillary equipment to verify the functionality only.* *2. The OEM3095 EVACU Elite SFP Single Mode Single Fibre Side A (SFP-GE-BX, BIDI, 1000Base, 1310TX/1490nmRX, SMF, 10km, LC simplex, DOM) and OEM3096 EVACU Elite SFP Single Mode Single Fibre Side B (SFP-GE-BX, BIDI, 1000Base, 1490TX/1310nmRX, SMF, 10km, LC simplex, DOM) were functionally tested but were not subjected to the environmental and EMC tests.*	966c/02

A copy of the certificate, confirming the full scope of approval including notes relating to the superscript references in the above table, may be viewed online by clicking on the product name in the associated entry on www.RedBookLive.com

Certificate No: 966d to EN 54-2: 1997 + A1: 2006, EN 54-4: 1997 + A1: 2002 + A2: 2006

Control and indicating equipment

Certificated Products		LPCB Ref. No.
13U EvacU Elite	Wall Mounted Emergency Warning Control and Indicating Equipment (EWCIE) and Emergency Intercom Control and Indicating Equipment (EICIE) (Grade 1) Incorporating the following mandatory modules: BRD63PDB1-A Power Distribution Board BRD63ABB1-A Amplifier Backplane Board BRD63CPU1-A Distribution CPU BRD63GUI1-A Graphical User Interface Primary	966d/01

Certificated Products **LPCB Ref. No.**

ASS63CPU-NET EvacU Elite CPU Network incorporating:
BRD63NIC1-A Network Interface Card

ASS63PSU12M Primary Power Supply incorporating:
BRD63PCC1-A Power Control Card - Primary
RCB-1600-24 Meanwell Power Supply

Network SFP Modules:
OEM3087 IC SFP VDSL Transceiver Module SFP-V5311-L-O "COPPER"
OEM3088 IC SFP VDSL Transceiver Module SFP-V5311-L-R "COPPER"

Incorporating the following optional modules:
BRD63ILC1-A Quad Radial Line Card
BRD63LILC1-A Dual Loop Line Card
BRD63LPA1-A Dual 25W Amplifier
BRD63LPA1-B 50W Amplifier
BRD63MIC1-A Multi-Purpose Interface Card
BRD63MOC1-A Multi-Purpose Output Card
BRD63GUI1-B Graphical User Interface Secondary
ASS63WIPM Primary Warden Intercom Phone

ASS63PSU12S Secondary Power Supply incorporating
BRD63PCC1-B Power Control Card - Secondary
RCB-1600-24 Meanwell Power Supply

Certified with the following options with requirements from AS4428.16:2020:
7.2 Indication of alarm signals
7.3 Alert signal
7.6 Audible indication of alarm signal reception
7.7 Delays before entering the emergency warning condition
7.8 Phased Evacuation with Multi-Zone System
7.9.2 Silencing of the emergency warning condition with a manual control
7.10.2 Reset of emergency warning condition with a manual condition
7.11 Output to Warning devices
7.12 Emergency warning condition output signal
9 Disabled condition
10 Test Condition
11 Automatic/Manual Mode
11.2 Manual Control of Networked EWCIE
12.1 Individual emergency zone controls
12.2 All emergency zone controls
14 Emergency Microphone
14.2 Ready-to-Talk Indicator
18.9 Dry heat, steady state test (operational) 50°±2°C

Certified with the following options with requirements from AS7240.4:2018:
6.8 Impact (operational)
6.9 Vibration, sinusoidal (operational)
6.12 Vibration, sinusoidal (endurance)
6.13 Dry heat (operational) 50°±2°C

Certified with the following options with requirements from AS4428.4:2016:
8.8 External silencing of the EICIE Fault Condition
9 Zone cleared condition

Certificated Products		LPCB Ref. No.
	10 Manual control of networked EICIE 11.2 WIP group call control 16.6 Dry heat, steady state test (operational) 50°±2°C *Notes:* *1. The Emergency warning control and indicating equipment (EWCIE) meets grade 1. The EWCIE is capable of meeting certain optional functions but for grade 1, these must not be enabled.* *2. The ASS63WIPS Radial WIP Handset and ASS63LWIP Loop WIP Handset were connected to the EICIE as ancillary equipment to verify the functionality only. These modules were not subjected to the environmental and EMC tests.* *3. The OEM3095 EVACU Elite SFP Single Mode Single Fibre Side A (SFP-GE-BX, BIDI, 1000Base, 1310TX/1490nmRX, SMF, 10km, LC simplex, DOM) and OEM3096 EVACU Elite SFP Single Mode Single Fibre Side B (SFP-GE-BX, BIDI, 1000Base, 1490TX/1310nmRX, SMF, 10km, LC simplex, DOM) were functionally tested but were not subjected to the environmental and EMC tests.*	
24U EvacU Elite	Floor Mounted Emergency Warning Control and Indicating Equipment (EWCIE) and Emergency Intercom Control and Indicating Equipment (EICIE) (Grade 1) Incorporating the following mandatory modules: BRD63PDB1-A Power Distribution Board BRD63ABB1-A Amplifier Backplane Board BRD63CPU1-A Distribution CPU BRD63GUI1-A Graphical User Interface Primary ASS63CPU-NET EvacU Elite CPU Network incorporating: BRD63NIC1-A Network Interface Card ASS63PSU12M Primary Power Supply incorporating BRD63PCC1-A Power Control Card - Primary RCB-1600-24 Meanwell Power Supply Network SFP Modules OEM3087 IC SFP VDSL Transceiver Module SFP-V5311-L-O "COPPER" OEM3088 IC SFP VDSL Transceiver Module SFP-V5311-L-R "COPPER" Incorporating the following optional modules: BRD63ILC1-A Quad Radial Line Card BRD63LILC1-A Dual Loop Line Card BRD63LPA1-A Dual 25W Amplifier BRD63LPA1-B 50W Amplifier BRD63MIC1-A Multi-Purpose Interface Card BRD63MOC1-A Multi-Purpose Output Card BRD63GUI1-B Graphical User Interface Secondary ASS63WIPM Primary Warden Intercom Phone ASS63PSU12S Secondary Power Supply incorporating BRD63PCC1-B Power Control Card - Secondary RCB-1600-24 Meanwell Power Supply Certified with the following options with requirements from AS4428.16:2020: 7.2 Indication of alarm signals 7.3 Alert signal 7.6 Audible indication of alarm signal reception 7.7 Delays before entering the emergency warning condition 7.8 Phased Evacuation with Multi-Zone System 7.9.2 Silencing of the emergency warning condition with a manual control	966d/02

Certificated Products		LPCB Ref. No.
	7.10.2 Reset of emergency warning condition with a manual condition 7.11 Output to Warning devices 7.12 Emergency warning condition output signal 9 Disabled condition 10 Test Condition 11 Automatic/Manual Mode 11.2 Manual Control of Networked EWCIE 12.1 Individual emergency zone controls 12.2 All emergency zone controls 14 Emergency Microphone 14.2 Ready-to-Talk Indicator 18.9 Dry heat, steady state test (operational) 50°±2°C Certified with the following options with requirements from AS7240.4:2018: 6.8 Impact (operational) 6.9 Vibration, sinusoidal (operational) 6.12 Vibration, sinusoidal (endurance) 6.13 Dry heat (operational) 50°±2°C Certified with the following options with requirements from AS4428.4:2016: 8.8 External silencing of the EICIE Fault Condition 9 Zone cleared condition 10 Manual control of networked EICIE 11.2 WIP group call control 16.6 Dry heat, steady state test (operational) 50°±2°C *Notes:* *1. The Emergency warning control and indicating equipment (EWCIE) meets grade 1. The EWCIE is capable of meeting certain optional functions but for grade 1, these must not be enabled.* *2. The ASS63WIPS Radial WIP Handset and ASS63LWIP Loop WIP Handset were connected to the EICIE as ancillary equipment to verify the functionality only. These modules were not subjected to the environmental and EMC tests.* *3. The OEM3095 EVACU Elite SFP Single Mode Single Fibre Side A (SFP-GE-BX, BIDI, 1000Base, 1310TX/1490nmRX, SMF, 10km, LC simplex, DOM) and OEM3096 EVACU Elite SFP Single Mode Single Fibre Side B (SFP-GE-BX, BIDI, 1000Base, 1490TX/1310nmRX, SMF, 10km, LC simplex, DOM) were functionally tested but were not subjected to the environmental and EMC tests.*	

A copy of the certificate, confirming the full scope of approval including notes relating to the superscript references in the above table, may be viewed online by clicking on the product name in the associated entry on www.RedBookLive.com

---

Application Solutions (Safety and Security) Ltd, East Sussex, United Kingdom

Unit 17, Cliffe Industrial Estate, Lewes, East Sussex BN8 6JL, United Kingdom
Tel: +44 (0) 1273 405411 • Fax: +44(0) 1273 405415
E-mail: sales@asl-control.co.uk • Website: www.asl-control.co.uk

Certificate No: 1043a-(cl-1) to EN 54-16: 2008 and EN 54-4: 1997 + A1: 2002 + A2: 2006

Certificated Products		LPCB Ref. No.
ASL Rack mount voice alarm system	ASL Rack mount voice alarm system incorporating the following modules: *Series Routers:* *VAR4(EN54) Router 4x4 DSP EN54* *VAR12(EN54) Router 12x12 DSP EN54* *VAR20(EN54) Router 20x20 DSP EN54* *VIPEDIA-12 Series Routers:*	1043a/01

Certificated Products **LPCB Ref. No.**

VIPEDIA-12 VIPEDIA 12x12 IP Voice Alarm Router
VIPEDIA-12-NET VIPEDIA 12x12 IP Voice Alarm Router with Networking Card (Consists of VIPEDIA-12 and VIPEDIA-NET)
VIPEDIA-12-PRO VIPEDIA 12x12 IP Voice Alarm Router with Dante DSP Audio Processor (Consists of VIPEDIA-12 and VIPEDIA-PRO)

VIPEDIA-12 Optional modules:
VIPEDIA-NET VIPEDIA-12 Network Card
VIPEDIA-NET-4GB VIPEDIA-12 Network Card with 4GB Audio Storage Inc. VIPA-OS
VIPEDIA-PRO VIPEDIA-12 Network Card with Dante DSP Audio Processor

SFP Optional Adaptors:
SFP-CU1G SFP Module (Copper Ethernet)
SFP-MM1GL SFP Module (Multi-mode Fibre)
SFP-MM1GC SFP Module (Multi-mode Fibre)
SFP-SM1G SFP Module (Single-mode Fibre)

Network Switches:
*NETWORK-SWITCH-MM4 Multi-mode Secure Loop Switch (2*Fibre, 2*RJ45)*
*NETWORK-SWITCH-SM4 Single-mode Secure Loop Switch (2*Fibre, 2*RJ45)*
*NETWORK-SWITCH-MM8 Multi-mode Secure Loop Switch (2*Fibre, 6*RJ45)*
*NETWORK-SWITCH-SM8 Single-mode Secure Loop Switch (2*Fibre, 6*RJ45)*
*NETWORK-SWITCH-NF8 Secure Loop Switch (8*RJ45)*
*NETWORK-SWITCH-LP01 Network Loop Switch (2*SFP, 8*RJ45)*

Adaptors:
BOA01 RJ45 DIN Terminal Breakout Adaptor Single Port With Terminations
BOA02 RJ45 DIN Terminal Breakout Adaptor Four Port Straight Through

V2000 Amplifier Frame: V2000 Amplifier frame for housing D series amplifiers and amplifier interfaces

D Series amplifiers:
D500 Amplifier Module 500W
D150 Amplifier Module 150W

Amplifier interfaces for V2000 mainframe:
LSZDC Dual Line surveillance interface
V2000-STBY V2000 Standby Interface
V400 Amplifier frame: V400 Amplifier frame for housing M series amplifiers and amplifier interfaces

M series amplifiers:
M100 Amplifier Module 100W
M200 Amplifier Module 200W
M400 Amplifier Module 400W

Amplifier interfaces for V400 mainframe:
LSDDC Dual Line Surveillance Interface
SSINT Standby Surveillance interface

X400 Amplifier frame: X400 Amplifier frame for housing MX series amplifiers

MX series amplifiers:
MX100 Amplifier Module 100W MX Series
MX200 Amplifier Module 200W MX Series
MX400 Amplifier Module 400W MX Series

Power supply:
BPC65 Battery Charger with Mounting Tray 65Ah Inc. Cables and Breakers
BPC75 Battery Charger with Mounting Tray 75Ah Inc. Cables and Breakers
BPC130 Battery Charger with Mounting Tray 130Ah Inc. Cables and Breakers

Optional modules:
BMB01 RS485 Interfaced Analogue and Digital I/O Expansion Unit
EAP01 Emergency access point - All call emergency microphone
EMS01 (MK2) Emergency microphone station - All call
EMS01-EC(MK2) Emergency microphone station - All call with euro-cylinder lock
EMS10 Emergency microphone station - 10 Button
EMS10-EC Emergency microphone station - 10 Button with euro-cylinder lock
EMS20 Emergency microphone station - 20 Button

Certificated Products		LPCB Ref. No.
	EMS20-EC Emergency microphone station - 20 Button with euro-cylinder lock *EMS30 Emergency microphone station - 30 Button* *EMS40 Emergency microphone station - 40 Button* *EMS50 Emergency microphone station - 50 Button* *EMX30 Expansion module for EMS20 - 30 Button* *MPS01-F Desk paging and emergency microphone - 1 Button Fist mic* *MPS01-G Desk paging and emergency microphone - 1 Button Gooseneck mic* *MPS10-F Desk paging and emergency microphone - 10 Button Fist mic* *MPS10-G Desk paging and emergency microphone - 10 Button Gooseneck mic* *MPS20-F Desk paging and emergency microphone - 20 Button Fist mic* *MPS20-G Desk paging and emergency microphone - 20 Button Gooseneck mic* *MPS30-F Desk paging and emergency microphone - 30 Button Fist mic* *MPS30-G Desk paging and emergency microphone - 30 Button Gooseneck mic* *MPS40-F Desk paging and emergency microphone - 40 Button Fist mic* *MPS40-G Desk paging and emergency microphone - 40 Button Gooseneck mic* *MPS50-F Desk paging and emergency microphone - 50 Button Fist mic* *MPS50-G Desk paging and emergency microphone - 50 Button Gooseneck mic* *MPX10 Microphone expansion module for MPS01 - 10 Button* *MPS01-MB Wall mount bracket kit for MPS01* *MPX10-MB Wall mount bracket kit for MPS10 - MPS20* *Certified with the following options with requirements from EN 54 Part 16:* *7.6.2 Manual silencing of voice alarm condition* *7.7.2 Manual reset of the voice alarm condition* *7.9 Voice alarm condition output* *8.3 Indication of faults related to the transmission path to the CIE* *8.4 Indication of faults related to voice alarm zones* *10 Voice Alarm Manual control (Except on VAR routers)* *12 Emergency microphone(s)* *13.14 Redundant power amplifiers* *Notes:* *1. The certification is valid only when the installation and configuration of the VACIE meet the manufactures system design guide and EN 54-16 functionality* *2. Refer to the ASL technical document reference number T-0667-0379 for further detail of ASL order numbers for product variants and third-party products tested and approved by BRE/LPCB to be used with or as part of ASL VACIE.*	
INTEGRA	ASL Wall Mounting VACIE *ASL Wall Mounting VACIE* *Incorporating the following:* *INTEGRA All-in-one Wall Mount Voice Alarm System for D Series amplifiers and amplifier interfaces* *OR* *INTEGRA-PRO All-in-one Wall Mount Voice Alarm System for D Series amplifiers and amplifier interfaces with Dante DSP Audio Processor (consists of INTEGRA and VIPEDIA-PRO)* *D Series amplifiers:* *D500 Amplifier Module 500W* *D150 Amplifier Module 150W* *Amplifier interfaces:* *LSZDC Dual Line surveillance interface* *V2000-STBY V2000 Standby Interface* *Optional modules:* *BMB01 RS485 Interfaced Analogue and Digital I/O Expansion Unit* *BOA01 RJ45 DIN Terminal Breakout Adaptor Single Port With Terminations* *BOA02 RJ45 DIN Terminal Breakout Adaptor Four Port Straight Through* *VIPEDIA-NET Vipedia-12 Network Card* *VIPEDIA-NET-4GB Vipedia-12 Network Card with 4GB Audio Storage Inc. VIPA-OS* *VIPEDIA-PRO VIPEDIA-12 Network Card with Dante DSP Audio Processor* *SFP Optional Modules:* *SFP-CU1G SFP Module (Copper Ethernet)*	1043a/02

Certificated Products **LPCB Ref. No.**

SFP-MM1GL SFP Module (Multi-mode Fibre)
SFP-MM1GC SFP Module (Multi-mode Fibre)
SFP-SM1G SFP Module (Single-mode Fibre)

Optional Network Switches:
*NETWORK-SWITCH-MM4 Multi-mode Secure Loop Switch (2*Fibre, 2*RJ45)*
*NETWORK-SWITCH-SM4 Single-mode Secure Loop Switch (2*Fibre, 2*RJ45)*
*NETWORK-SWITCH-MM8 Multi-mode Secure Loop Switch (2*Fibre, 6*RJ45)*
*NETWORK-SWITCH-SM8 Single-mode Secure Loop Switch (2*Fibre, 6*RJ45)*
*NETWORK-SWITCH-NF8 Secure Loop Switch (8*RJ45)*
*NETWORK-SWITCH-LP01 Network Loop Switch (2*SFP, 8*RJ45)*

Optional Emergency Microphones:
EAP01 Emergency access point - All call emergency microphone
EMS01 (MK2) Emergency microphone station - All call
EMS01-EC(MK2) Emergency microphone station - All call with euro-cylinder lock
EMS10 Emergency microphone station - 10 Button
EMS10-EC Emergency microphone station - 10 Button with euro-cylinder lock
EMS20 Emergency microphone station - 20 Button
EMS20-EC Emergency microphone station - 20 Button with euro-cylinder lock
EMS30 Emergency microphone station - 30 Button
EMS40 Emergency microphone station - 40 Button
EMS50 Emergency microphone station - 50 Button
EMX30 Expansion module for EMS20 - 30 Button
MPS01-F Desk paging and emergency microphone - 1 Button Fist mic
MPS01-G Desk paging and emergency microphone - 1 Button Gooseneck mic
MPS10-F Desk paging and emergency microphone - 10 Button Fist mic
MPS10-G Desk paging and emergency microphone - 10 Button Gooseneck mic
MPS20-F Desk paging and emergency microphone - 20 Button Fist mic
MPS20-G Desk paging and emergency microphone - 20 Button Gooseneck mic
MPS30-F Desk paging and emergency microphone - 30 Button Fist mic
MPS30-G Desk paging and emergency microphone - 30 Button Gooseneck mic
MPS40-F Desk paging and emergency microphone - 40 Button Fist mic
MPS40-G Desk paging and emergency microphone - 40 Button Gooseneck mic
MPS50-F Desk paging and emergency microphone - 50 Button Fist mic
MPS50-G Desk paging and emergency microphone - 50 Button Gooseneck mic
MPX10 Microphone expansion module for MPS01 - 10 Button
MPS01-MB Wall mount bracket kit for MPS01
MPX10-MB Wall mount bracket kit for MPS10 - MPS20

Certified with the following options with requirements from EN 54 Part 16:
7.6.2 Manual silencing of voice alarm condition
7.7.2 Manual reset of the voice alarm condition
7.9 Voice alarm condition output
8.3 Indication of faults related to the transmission path to the CIE
8.4 Indication of faults related to voice alarm zones
10.0 Voice Alarm Manual control
12.0 Emergency microphone(s)
13.14 Redundant power amplifiers

Notes:
1. The certification is valid only when the installation and configuration of the VACIE meet the manufactures system design guide and EN 54-16 functionality
2. Refer to the ASL technical document reference number T-0667-0379 for further detail of ASL order numbers for product variants and third-party products tested and approved by BRE/LPCB to be used with or as part of ASL VACIE.

A copy of the certificate, confirming the full scope of approval including notes relating to the superscript references in the above table, may be viewed online by clicking on the product name in the associated entry on www.RedBookLive.com

Aras Security B.V

Thomas Edisonweg 5, DH Drunen 5151, The Netherlands
Tel: 01633 628 558
E-mail: info@aras.nl

Certificate No: 378p-(cl-1) to EN54-2: 1997 + A1: 2006 & EN54-4: 1997 + A1: 2002 + A2: 2006

Control and Indicating Equipment

ASENWARE LTD

6 Prospect Way, Royal Oak Industrial Estate, Daventry, Northamptonshire NN11 8PL, United Kingdom
Tel: +8613828765759
E-mail: info@asenware.com

Certificate No: 1426g-(cl-2) to EN54-2: 1997 + A1: 2006 & EN54-4: 1997 + A1: 2002 + A2: 2006

Control and indicating equipment

Certificated Products		**LPCB Ref. No.**
AW-FP300	Single Loop Analogue Addressable Fire Alarm Control Panel *Incorporating the following modules:* *SEC3002_IO IO Board* *SEC3002_B Monitoring Board (B Board)* *ZB-9100-A Main CPU Board (A Board)* *PSE10_KZ Power Supply* *SEC3002_QK Zone Indication Board* *SEC3002_KEY Key Board* *SEC3002_FL1 Loop SPU Board* *Incorporating the following optional modules:* *SEC3002_COM Communication Board* *Certified with the following options with requirements from EN54-2:* *7.8 Output to fire alarm devices* *7.10.1 Output type A* *7.11 Delays to outputs* *8.3 Fault signals from points* *9.5 Disablement of addressable point* *10 Test condition* *Notes:* *1. This product approval does not constitute compliance with the fire detection and alarm systems requirements of EN54-13.* *2. Scope of approval does not include the operation of the network functionality.*	1426g/01
AW-FP312	Single Loop Analogue Addressable Control and Indicating Equipment Incorporating the following modules: SEC1000_CB Main Control Board SEC1000_MB IO Board PMC_01 Power Management Control Board LRS-75-24 Meanwell Power Supply Certified with the following options with requirements from EN54-2: 7.8 Output to fire alarm devices 7.11 Delays to outputs 8.3 Fault signals from points 9.5 Disablement of addressable points 10 Test condition *Notes:* *1. This product approval does not constitute compliance with the fire detection and alarm systems requirements of EN54-13.*	1426g/02

A copy of the certificate, confirming the full scope of approval including notes relating to the superscript references in the above table, may be viewed online by clicking on the product name in the associated entry on www.RedBookLive.com

Baldwin Boxall Communications Ltd

Baldwin Boxall Communications Ltd, Wealden Industrial Est.,, Farningham Road, Jarvis Brook, Crowborough, East Sussex TN6 2JR, United Kingdom
Tel: 01892 664422

Control and indicating equipment

Beijing VSAIL Fire Protection Equipment Co Ltd

No. 401, Unit A, Building 32,, No. 99 14th Kechuang Street, BDA, Beijing 100176, China
Tel: +86 10-56691196 • Fax: +86 10-56691100
E-mail: erichenx@vsail.com.cn • Website: www.vsail.com.cn

Certificate No: 1174e to EN 54-2: 1997 + A1: 2006, EN 54-4: 1997 + A1: 2002 + A2: 2006
Certificate No: 1174j to EN 54-2: 1997 + A1: 2006 & EN 54-4: 1997 + A1: 2002 + A2: 2006

Control and indicating equipment

Certificated Products		**LPCB Ref. No.**
VC-6831/16	16 Zone Conventional control and indicating equipment Incorporating the following units: VSL2.908.004 16 Zone Control Board VSL2.908.007 16 Zone Display Board PD-100-24 AC/DC Power Supply Module VSL2.908.005 16 Zone Signal Output Board Certified with the following Options with requirements from EN 54-2:1997 7.8 Output to fire alarm device(s) 7.11 Delay to outputs 10 Test condition Note: 1. This approval does not constitute compliance with the fire detection and alarm systems requirements of EN 54-13.	1174e/01
VC-6831/8	8 Zone Conventional control and indicating equipment Incorporating the following units: VSL2.908.042 8 Zone Control Board VSL2.908.043 8 Zone Display Board PD-100-24 AC/DC Power Supply Module Certified with the following Options with requirements from EN 54-2:1997 7.8 Output to fire alarm device(s) 7.11 Delay to outputs 10 Test condition Note: 1. This approval does not constitute compliance with the fire detection and alarm systems requirements of EN 54-13.	1174e/02
VC-6831/4	4 Zone Conventional control and indicating equipment Incorporating the following units: VSL2.908.044 4 Zone Control Board VSL2.908.045 4 Zone Display Board PD-100-24 AC/DC Power Supply Module Certified with the following Options with requirements from EN 54-2:1997 7.8 Output to fire alarm device(s) 7.11 Delay to outputs 10 Test condition Note: 1. This approval does not constitute compliance with the fire detection and alarm systems requirements of EN 54-13.	1174e/03

Certificated Products		LPCB Ref. No.
VC-6831/2	2 Zone Conventional control and indicating equipment Incorporating the following units: VSL2.908.046 2 Zone Control Board VSL2.908.047 2 Zone Display Board PD-100-24 AC/DC Power Supply Module Certified with the following Options with requirements from EN 54-2:1997 7.8 Output to fire alarm device(s) 7.11 Delay to outputs 10 Test condition Note: 1. This approval does not constitute compliance with the fire detection and alarm systems requirements of EN 54-13.	1174e/04

Certificate No: 1174j to EN 54-2: 1997 + A1: 2006, EN 54-4: 1997 + A1: 2002 + A2: 2006

Control and indicating equipment

Certificated Products		LPCB Ref. No.
VI-6847	4 Loop Analogue Addressable Control and Indicating Equipment Incorporating the following modules: VSL2.908.146 Main Board VSL2.908.149 Indication board VSL2.908.155 Terminal board VSL2.908.162 Control Board VSL2.908.153 Loop Card VSL2.908.152 I/O Board VSL2.908.169 Power Board VSL7-820-150 Zone Board VSL7-820-154 Network Card LRS-150-24 MEAN-WELL Power Supply module Certified with the following option with requirements for EN54-2: 7.8 Output to fire alarm devices 7.10.1 Outputs to fire protection equipment (Type A) 7.10.2 Outputs to fire protection equipment (Type B) 7.10.3 Outputs to fire protection equipment (Type C) 7.10.4 Fault monitoring of fire protection equipment 7.11 Delays to outputs 7.12.1 Dependencies on more than one alarm signal (Type A dependency) 7.12.2 Dependencies on more than one alarm signal (Type B dependency) 7.12.3 Dependencies on more than one alarm signal (Type C dependency) 7.13 Alarm Counter 9.5 Disablement of addressable point 10 Test condition *Notes:* *1. The scope of the approval does not include the operation of the network functionality* *2. This approval does not constitute compliance with the fire detection and alarm systems requirements of EN54-13.*	1174j/01

A copy of the certificate, confirming the full scope of approval including notes relating to the superscript references in the above table, may be viewed online by clicking on the product name in the associated entry on www.RedBookLive.com

---

Bharat Fire Fighting PVT Ltd

Garudichira House, Kuriyannoor post,, Thottappuzhassery, Pullada,, Pathanam Thitta, Kerala 689550, India
Tel: 00919446274427
E-mail: info@bhafffco.com

Certificate No: 1450g-(cl-3) to EN 54-2:1997 + A1:2006
EN 54-4:1997 + A1:2002 + A2:2006

Approved Products		LPCB Ref. No.
BKFA1	1-4 Loops Analogue Addressable Fire Alarm Control Panel Incorporating the following modules: TC5109-Main Main board TC5109-Loop Loop board TC5109-XZB Loop base board TC5109-Key Keypad board TC5109-ZX Zone and FPE indicator board TC5109-LCD Display board TC5109-SCR Indicator board TC5120-RS485 RS485 board TC5000-MAIN-CAN CAN board TC5109-LB1 Filter board 1 TC5109-LB2 Filter board 2 TC5109-POW Power Supply Equipment Certified with the following options with requirements: 7.8 Output to fire alarm device(s) 7.10.1 Output to automatic fire protection equipment Type A 7.10.2 Output to automatic fire protection equipment Type B 7.10.3 Output to automatic fire protection equipment Type C 8.3 Fault signals from point 9.5 Disablement of addressable points *Notes:* *1. This product approval does not constitute compliance with the fire detection and alarm systems requirements of EN54-13.* *2. Scope of approval does not include the operation of the network functionality.*	1450g/01

A copy of the certificate, confirming the full scope of approval including notes relating to the superscript references in the above table, may be viewed online by clicking on the product name in the associated entry on www.RedBookLive.com

Biamp Systems LLC

9300 S.W. Gemini Drive, Beaverton, Oregon 97008, USA
Tel: +1 503 718 9212 • Fax: +1 503 626 0281
Website: www.biamp.com

Bosch Security Systems BV

Torenallee 49, Eindhoven 5617 BA, The Netherlands
Tel: +3140 257 7174
E-mail: Henk.Goudsmits@nl.bosch.com • Website: www.boschsecurity.com

Certificate No: 1054a-(cI-1) to EN 54-16: 2008
Certificate No: 1054b-(cI-1) to EN 54-4:1997 + A1:2002 & EN 54-16: 2008
Certificate No: 1054b-(cI-2) to EN 54-4:1997 + A1:2002 & EN 54-16: 2008
Certificate No: 1054c-(cI-1) to ISO 7240-16:2007
Certificate No: 1054c-(cI-2) to ISO 7240-16:2007

Bristol Fire Engineering LLC

Al Quoz Industrial Area 3, P.O.Box 74582, Dubai, United Arab Emirates
Tel: +971 4 347 2426 • Fax: +971 4 347 2363
E-mail: sami@bristol-fire.com • Website: www.bristol-fire.com

Certificate No: 1174e-(cI-2) to EN54-2: 1997 + A1: 2006 & EN54-4: 1997 + A1: 2002 + A2: 2006
Certificate No: 1330h-(cI-2) to EN54-2: 1997 + A1: 2006 & EN54-4: 1997 + A1: 2002 + A2: 2006

Control and indicating equipment

Certificated Products		**LPCB Ref. No.**
B61-801/16	16 Zone Conventional Control and Indicating Equipment *Incorporating the following units:* *VSL2.908.004 16 Zone Control Board* *VSL2.908.007 16 Zone Display Board* *PD-100-24 AC/DC Power Supply Module* *VSL2.908.005 16 Zone Signal Output Board* *Certified with the following Options with requirements from EN 54-2:1997* *7.8 Output to fire alarm device(s)* *7.11 Delay to outputs* *10 Test condition* *Note:* *1. This approval does not constitute compliance with the fire detection and alarm systems requirements of EN 54-13.*	1174e/01
B61-801/8	8 Zone Conventional Control and Indicating Equipment *Incorporating the following units:* *VSL2.908.042 8 Zone Control Board* *VSL2.908.043 8 Zone Display Board* *PD-100-24 AC/DC Power Supply Module* *Certified with the following Options with requirements from EN 54-2:1997* *7.8 Output to fire alarm device(s)* *7.11 Delay to outputs* *10 Test condition* *Note:* *1. This approval does not constitute compliance with the fire detection and alarm systems requirements of EN 54-13.*	1174e/02
B61-801/4	4 Zone Conventional Control and Indicating Equipment *Incorporating the following units:* *VSL2.908.044 4 Zone Control Board* *VSL2.908.045 4 Zone Display Board* *PD-100-24 AC/DC Power Supply Module* *Certified with the following Options with requirements from EN 54-2:1997* *7.8 Output to fire alarm device(s)* *7.11 Delay to outputs* *10 Test condition* *Note:* *1. This approval does not constitute compliance with the fire detection and alarm systems requirements of EN 54-13.*	1174e/03
B61-801/2	2 Zone Conventional Control and Indicating Equipment *Incorporating the following units:* *VSL2.908.046 2 Zone Control Board* *VSL2.908.047 2 Zone Display Board* *PD-100-24 AC/DC Power Supply Module* *Certified with the following Options with requirements from EN 54-2:1997* *7.8 Output to fire alarm device(s)* *7.11 Delay to outputs* *10 Test condition* *Note:* *1. This approval does not constitute compliance with the fire detection and alarm systems requirements of EN 54-13.*	1174e/04

A copy of the certificate, confirming the full scope of approval including notes relating to the superscript references in the above table, may be viewed online by clicking on the product name in the associated entry on www.RedBookLive.com

Certificate No: 1330h-(cl-2) to EN54-2: 1997 + A1: 2006 & EN54-4: 1997 + A1: 2002 + A2: 2006

Control and indicating equipment

Certificated Products		**LPCB Ref. No.**
IGN250	1 to 4 loop Intelligent Addressable Control and Indicating Equipment Incorporating the following modules: 7010200004 TX7004 Mother Board 7020100022 TX7004 Main Board 7010700017 TX7004 Loop Board 7010400011 TX7004 Power Management Board	1330h/01

Certificated Products		LPCB Ref. No.
7010600019	TX7004 Communication Board	
7010400012	TX7004 Power Wiring Board	
PDF-150-27.5	Power Supply Unit	
7021300007	TX7004 Key Board	
7020800009	TX7004 Led Board	
7010300010	TX7004 Regional Display Board	
814400002	TX6940E Printer Module	

Certified with the following options with requirements from EN54-2:
7.8 Output to fire alarm device(s)
7.10.1 Output to fire protection equipment - Type A
7.11 Delays to outputs
7.12.1 Dependencies on more than one alarm signal - Type A
7.12.2 Dependencies on more than one alarm signal - Type B
7.13 Alarm counter
9.5 Disablement of each address point
10 Test condition
Notes:
1. The scope of the approval does not include the operation of the network functionality
2. The product approval does not constitute compliance with the fire detection and alarm system requirements of EN54-13.

A copy of the certificate, confirming the full scope of approval including notes relating to the superscript references in the above table, may be viewed online by clicking on the product name in the associated entry on www.RedBookLive.com

---

Carrier Fire & Security BV

Kelvinstraat 7, 6003DH, Weert, The Netherlands
Tel: +31 495 579 579
E-mail: heni.karaa@carrier.com • Website: www uk.firesecurityproducts.com/en

Certificate No: 1199a-(cl-1) to EN 54-2:1997 + A1:2006
EN 54-4:1997 + A1:2002 + A2:2006
EN 54-21:2006
Certificate No: 1199b-(cl-1) to EN 54-2:1997 + A1:2006 & EN 54-4:1997 + A1:2002 + A2:2006
Certificate No: 1199c-(cl-1) to EN 54-2:1997 + A1:2006 & EN 54-4:1997 + A1:2002 + A2:2006

Control and indicating equipment

Certificated Products		LPCB Ref. No.
2X-F1 2X-F1-S	2X-F1 Intelligent Analogue Addressable Control and Indicating Equipment with User Interface- 1 Loop 2X-F1-S Intelligent Analogue Addressable Control and Indicating Equipment with User Interface - 1 Loop Small Cabinet	1199a/05

Incorporating the following units:
2010-2F1-MB Main control board
2X-UI User interface control board
2010-2-PS-40 4A Power Supply

Incorporating the following optional modules:
2X-ZI-20 (20 Zone) (Large cabinet variant only)
2X-ZI-40 (40 Zone) (Large cabinet variant only)
2X-ZI-24-S (24 Zone) (Small cabinet variant only)
2010-2-NB Network card
2X-LB Loop Board (Large cabinet variant only)
2010-2-232-KIT Interface board for external printer
2010-2-PS-C2 UK mains cable for large cabinet
2010-2-PS-C2-S UK mains cable for small cabinet
2010-2-PIB-8O Peripheral Interface Board 8 outputs (Large cabinet variant only)
2010-2-PIB-8I Peripheral Interface Board 8 inputs (Large cabinet variant only)
2010-2-PIB-8I8O Peripheral Interface Board 8 outputs and 8 inputs (Large cabinet variant only)
2010-2-DACT with ATS7310 (GSM module)
2X-D-TP Translucent door option for large cabinet*

Certificated Products			LPCB Ref. No.
	2X-D-TP-S	Translucent door option for small cabinet*	
	2010-FS-EOL	Fault Supervision End of Line unit	
	The above fire panels are certified with the following options with requirements from EN 54-2:		
	7.8	Output to fire alarm device(s)	
	7.11	Delays to outputs	
	7.12	Dependencies on more than one alarm signal (Type A, B and C)	
	7.13	Alarm counter	
	8.4	Total loss of the power supply	
	8.9	Output to fault warning routing equipment	
	9.5	Disablement of addressable points	
	10	Test condition	
	Notes:		
	1. This product approval does not constitute compliance with the fire detection and alarm systems requirements of EN 54-13. 2. Scope of the approval does not indicate the operation of the network functionality.		
	3. Available with the following language kit options: 01 Dutch (NL) The Netherlands, 02 French (FR), 03 English (UK) United Kingdom and Ireland, 04 German (DE), 05 Norwegian, 06 Swedish, 07 Danish (DK), 08 English (AU) Australia, 09 Spanish, 10 Italian, 11 Dutch (BE) Belgium, 12 Irish, 13 German (AU) (Austria), 14 Greek, 15 Arabic, 17 English (US) United States of America, 18 Polish, 19 Turkish, 20 Czech Republic, 21 Portuguese, 22 Hungarian, 23 Danish (IC) Iceland, 24 Slovakian, 25 Russian, 27 Lithuanian, 28 Finnish, 29 German (SW) Switzerland, 30 Estonian,31 Latvian, 32 French (BE) Belgium, 33 French (SW) Switzerland, 34 Italian (SW) Switzerland, 36 French (Int) International, 40 Bulgarian, 41 Belarusian, 43 Ukrainian, 44 Serbian, 45 Romanian (RO), 46 German (Int) International, 48 Croatian, 49 Macedonian, 50 Slovenian,51 Hebrew, 71 Catalan, 80 Chinese, 99 English (Int) International English.		
	*4. *The translucent door does not meet EN54-2 access level 1 requirements. To meet EN54-2 requirements with the door fitted the following is also required:*		
	i. A Zone indicator board to display the zones in alarm (to meet requirements of EN54-2 part 7.3).		
	ii. A MCP (without program delay) fitted beside the panel to allow overriding of delays (to meet requirements of EN54-2 part 7.11).		
KFP-AF1 KFP-AF1-S	Intelligent Analogue Addressable Control and Indicating Equipment with User Interface - 1 Loop Intelligent Analogue Addressable Control and Indicating Equipment with User Interface - 1 Loop Small Cabinet		1199a/05
	Incorporating the following units:		
	2010-2F1-MB	Main control board	
	KFP-A-UI	User interface control board	
	2010-2-PS-40	4A Power Supply	
	Incorporating the following optional modules:		
	KFP-A-ZI-20	(20 Zone) (Large cabinet variant only)	
	KFP-A-ZI-40	(40 Zone) (Large cabinet variant only)	
	KFP-A-ZI-24-S	(24 Zone) (Small cabinet variant only)	
	2010-2-NB	Network card	
	KFP-A-LB	Loop Board (Large cabinet variant only)	
	2010-2-232-KIT	Interface board for external printer	
	2010-2-PS-C2	UK Mains cable for large cabinet	
	2010-2-PS-C2-S	UK mains cable for small cabinet	
	2010-2-PIB-8O	Peripheral Interface Board 8 outputs (Large cabinet variant only)	
	2010-2-PIB-8I	Peripheral Interface Board 8 inputs (Large cabinet variant only)	
	2010-2-PIB-8I8O	Peripheral Interface Board 8 outputs and 8 inputs (Large cabinet variant only)	
	2010-2-DACT	With ATS7310 (GSM module)	
	2010-FS-EOL	Fault Supervision End of Line unit	
	The above fire panels are certified with the following options with requirements from EN 54-2:		
	7.8	Output to fire alarm device(s)	
	7.11	Delays to outputs	
	7.12	Dependencies on more than one alarm signal (Type A, B and C)	
	7.13	Alarm counter	
	8.4	Total loss of the power supply	
	8.9	Output to fault warning routing equipment	
	9.5	Disablement of addressable points	
	10	Test condition	
	Notes:		
	1. Scope of approval does not include the operation of the network functionality.		

Certificated Products			LPCB Ref. No.
		2. This product approval does not constitute compliance with the fire detection and alarm system requirements of EN54-13.	
ZP2-F1	ZP2-F1-S	Intelligent Analogue Addressable Control and Indicating Equipment with User Interface - 1 Loop Intelligent Analogue Addressable Control and Indicating Equipment with User Interface - 1 Loop Small Cabinet Incorporating the following units: 2010-2F1-MB Main control board ZP2-UI User interface control board 2010-2-PS-40 4A Power Supply Incorporating the following optional modules: ZP2-ZI-20 (20 Zone) (Large cabinet variant only) ZP2-ZI-40 (40 Zone) (Large cabinet variant only) ZP2-ZI-24-S (24 Zone) (Small cabinet variant only) 2010-2-NB Network card ZP2-LB Loop Board (Large cabinet variant only) 2010-2-232-KIT Interface board for external printer 2010-2-PS-C2 UK mains cable for large cabinet 2010-2-PS-C2-S UK mains cable for small cabinet 2010-2-PIB-8O Peripheral Interface Board 8 outputs (Large cabinet variant only) 2010-2-PIB-8I Peripheral Interface Board 8 inputs (Large cabinet variant only) 2010-2-PIB-8I8O Peripheral Interface Board 8 outputs and 8 inputs (Large cabinet variant only) 2010-2-DACT With ATS7310 (GSM module) 2010-FS-EOL Fault Supervision End of Line unit ZP2-D-TP Translucent door option for large cabinet* ZP2-D-TP-S Translucent door option for small cabinet* The above fire panels are certified with the following options with requirements from EN 54-2: 7.8 Output to fire alarm device(s) 7.11 Delays to outputs 7.12 Dependencies on more than one alarm signal (Type A, B and C) 7.13 Alarm counter 8.4 Total loss of the power supply 8.9 Output to fault warning routing equipment 9.5 Disablement of addressable points 10 Test condition *Notes:* *1. Scope of approval does not include the operation of the network functionality* *2. This product approval does not constitute compliance with the fire detection and alarm system requirements of EN54-13.* *3.*The translucent door does not meet EN54-2 access level 1 requirements. To meet EN 54-2 requirements with the door fitted the following is also required:* *i. A Zone indicator board to display the zones in alarm (to meet requirements of EN54-2 part 7.3).* *ii. A MCP (without program delay) fitted beside the panel to allow overriding of delays (to meet requirements of EN54-2 part 7.11)*	1199a/05
2X-F1-FB2	2X-F1-FB2-S	Intelligent Analogue Addressable Control and Indicating Equipment with User Interface with Fire Brigade Controls - 1 Loop Intelligent Analogue Addressable Control and Indicating Equipment with User Interface with Fire Brigade Controls - 1 Loop Small Cabinet Incorporating the following units: 2010-2F1-MB Main control board 2X-UI-FB2 User interface control board 2010-2-PS-40 4A Power Supply Incorporating the following optional modules: 2X-ZI-20 (20 Zone) (Large cabinet variant only) 2X-ZI-40 (40 Zone) (Large cabinet variant only) 2X-ZI-24-S (24 Zone) (Small cabinet variant only) 2010-2-NB Network card 2X-LB Loop Board (Large cabinet variant only) 2010-2-232-KIT Interface board for external printer 2010-2-PS-C2 UK mains cable for large cabinet 2010-2-PS-C2-S UK mains cable for small cabinet 2010-2-PIB Peripheral Interface Board (Germany) (Large cabinet variant only) 2010-2-PIB-8O Peripheral Interface Board 8 outputs (Large cabinet variant only) 2010-2-PIB-8I Peripheral Interface Board 8 inputs (Large cabinet variant only)	1199a/07

Certificated Products			LPCB Ref. No.
		2010-2-PIB-8I8O Peripheral Interface Board 8 outputs and 8 inputs (Large cabinet variant only) ADP-N3E-U IFAM interface card (master) (Large cabinet variant only) ADP-N3S Interface card (slave) (Large cabinet variant only) 2010-2-DACT With ATS7310 (GSM module) 2X-D-FB2-TP Translucent door option for large cabinet* 2X-D-FB2-TP-S Translucent door option for small cabinet* 2010-FS-EOL Fault Supervision End of Line unit The above fire panels are certified with the following options with requirements from EN 54-2: 7.8 Output to fire alarm devices 7.9.1 Output to fire alarm routing equipment 7.9.2 Alarm confirmation input from fire alarm routing equipment 7.10 Output to fire protection equipment (type A, B, and C) 7.11 Delays to outputs 7.12 Dependencies on more than one alarm signal (Type A, B and C) 7.13 Alarm counter 8.4 Total loss of the power supply 8.9 Output to fault warning routing equipment 9.5 Disablement of addressable points 10 Test condition *Notes:* *1. Scope of approval does not include the operation of the network functionality* *2. This product approval does not constitute compliance with the fire detection and alarm system requirements of EN54-13.*	
KFP-AF1-FB2 KFP-AF1-FB2 -S		Intelligent Analogue Addressable Control and Indicating Equipment with User Interface with Fire Brigade Controls - 1 Loop Intelligent Analogue Addressable Control and Indicating Equipment with User Interface with Fire Brigade Controls - 1 Loop Small Cabinet Incorporating the following units: 2010-2F1-MB Main control board KFP-A-UI-FB2 User interface control board 2010-2-PS-40 4A Power Supply Incorporating the following optional modules: KFP-A-ZI-20 (20 Zone) (Large cabinet variant only) KFP-A-ZI-40 (40 Zone) (Large cabinet variant only) KFP-A-ZI-24-S (24 Zone) (Small cabinet variant only) 2010-2-NB Network card KFP-A-LB Loop Board (Large cabinet variant only) 2010-2-232-KIT Interface board for external printer 2010-2-PS-C2 UK mains cable for large cabinet 2010-2-PS-C2-S UK mains cable for small cabinet 2010-2-PIB Peripheral Interface Board (Germany) (Large cabinet variant only) 2010-2-PIB-8O Peripheral Interface Board 8 outputs (Large cabinet variant only) 2010-2-PIB-8I Peripheral Interface Board 8 inputs (Large cabinet variant only) 2010-2-PIB-8I8O Peripheral Interface Board 8 outputs and 8 inputs (Large cabinet variant only) ADP-N3E-U IFAM interface card (master) (Large cabinet variant only) ADP-N3S Interface card (slave) (Large cabinet variant only) 2010-2-DACT With ATS7310 (GSM module) 2010-FS-EOL Fault Supervision End of Line unit The above fire panels are certified with the following options with requirements from EN 54-2: 7.8 Output to fire alarm devices 7.9.1 Output to fire alarm routing equipment 7.9.2 Alarm confirmation input from fire alarm routing equipment 7.10 Output to fire protection equipment (Type A, B, and C) 7.11 Delays to outputs 7.12 Dependencies on more than one alarm signal (Type A, B and C) 7.13 Alarm counter 8.4 Total loss of the power supply 8.9 Output to fault warning routing equipment 9.5 Disablement of addressable points 10 Test condition *Notes:* *1. Scope of approval does not include the operation of the network functionality* *2. This product approval does not constitute compliance with the fire detection and alarm system requirements of EN54-13.*	1199a/07

Certificated Products			LPCB Ref. No.
ZP2-F1-FB2 -S	ZP2-F1-FB2	Intelligent Analogue Addressable Control and Indicating Equipment with User Interface with Fire Brigade controls - 1 Loop Intelligent Analogue Addressable Control and Indicating Equipment with User Interface with Fire Brigade Controls - 1 Loop Small Cabinet Incorporating the following units: 2010-2F1-MB Main control board ZP2-UI-FB2 User interface control board 2010-2-PS-40 4A Power Supply Incorporating the following optional modules: ZP2-ZI-20 (20 Zone) (Large cabinet variant only) ZP2-ZI-40 (40 Zone) (Large cabinet variant only) ZP2-ZI-24-S (24 Zone) (Small cabinet variant only) 2010-2-NB Network card ZP2-LB Loop Board (Large cabinet variant only) 2010-2-232-KIT Interface board for external printer 2010-2-PS-C2 UK mains cable for large cabinet 2010-2-PS-C2-S UK mains cable for small cabinet 2010-2-PIB Peripheral Interface Board (Germany) (Large cabinet variant only) 2010-2-PIB-8O Peripheral Interface Board 8 outputs (Large cabinet variant only) 2010-2-PIB-8I Peripheral Interface Board 8 inputs (Large cabinet variant only) 2010-2-PIB-8I8O Peripheral Interface Board 8 outputs and 8 inputs (Large cabinet variant only) ADP-N3E-U IFAM Interface card (master) (Large cabinet variant only) ADP-N3S Interface card (slave) (Large cabinet variant only) 2010-2-DACT With ATS7310 (GSM module) 2010-FS-EOL Fault Supervision End of Line unit ZP2-D-FB2-TP Translucent door option for large cabinet* ZP2-D-FB2-TP-S Translucent door option for small cabinet* The above fire panels are certified with the following options with requirements from EN 54-2: 7.8 Output to fire alarm devices 7.9.1 Output to fire alarm routing equipment 7.9.2 Alarm confirmation input from fire alarm routing equipment 7.10 Output to fire protection equipment (Type A, B, and C) 7.11 Delays to outputs 7.12 Dependencies on more than one alarm signal (Type A, B and C) 7.13 Alarm counter 8.4 Total loss of the power supply 8.9 Output to fault warning routing equipment 9.5 Disablement of addressable points 10 Test condition *Notes:* *1. Scope of approval does not include the operation of the network functionality* *2. This product approval does not constitute compliance with the fire detection and alarm system requirements of EN54-13.*	1199a/07
2X-E1	2X-E1-S	Intelligent Analogue Addressable Fire and Evacuation Control and Indicating Equipment with User Interface with Fire Brigade Controls - 1 Loop Intelligent Analogue Addressable Fire and Evacuation Control and Indicating Equipment with User Interface with Fire Brigade Controls - 1 Loop Small Cabinet Incorporating the following units: 2010-2F1-MB Main control board 2X-UI-E User interface control board 2010-2-PS-40 4A Power Supply Incorporating the following optional modules: 2X-ZI-20 (20 Zone) (Large cabinet variant only) 2X-ZI-40 (40 Zone) (Large cabinet variant only) 2X-ZI-24-S (24 Zone) (Small cabinet variant only) 2010-2-NB Network card 2X-LB Loop Board (Large cabinet variant only) 2010-2-232-KIT Interface board for external printer 2010-2-PS-C2 UK mains cable for large cabinet 2010-2-PS-C2-S UK mains cable for small cabinet 2010-2-PIB-8O Peripheral Interface Board 8 outputs (Large cabinet variant only) 2010-2-PIB-8I Peripheral Interface Board 8 inputs (Large cabinet variant only) 2010-2-PIB-8I8O Peripheral Interface Board 8 outputs and 8 inputs (Large cabinet variant only) 2010-2-DACT With ATS7310 (GSM module) 2X-D-E-TP Translucent door option for large cabinet*	1199a/08

Certificated Products			LPCB Ref. No.
		2X-D-E-TP-S Translucent door option for small cabinet* 2010-FS-EOL Fault Supervision End of Line unit The above fire panels are certified with the following options with requirements from EN 54-2: 7.8 Output to fire alarm device(s) 7.9.1 Output to fire alarm routing equipment 7.9.2 Alarm confirmation input from fire alarm routing equipment 7.10 Output to fire protection equipment (Type A, B, and C) 7.11 Delays to outputs 7.12 Dependencies on more than one alarm signal (Type A, B and C) 7.13 Alarm counter 8.4 Total loss of the power supply 8.9 Output to fault warning routing equipment 9.5 Disablement of addressable points 10 Test condition *Notes:* *1. Scope of approval does not include the operation of the network functionality.* *2. This product approval does not constitute compliance with the fire detection and alarm system requirements of EN54-13.* *3. *The translucent door does not meet EN54-2 access level 1 requirements. To meet EN54-2 requirements with the door fitted the following is also required:* *i. A Zone indicator board to display the zones in alarm (to meet requirements of EN54-2 part 7.3).* *ii. A MCP (without program delay) fitted beside the panel to allow overriding of delays (to meet requirements of EN54-2 part 7.11).*	
KFP-AE1 KFP-AE1-S		Intelligent Analogue Addressable Fire and Evacuation Control and Indicating Equipment with User Interface with Fire Brigade Controls - 1 Loop Intelligent Analogue Addressable Fire and Evacuation Control and Indicating Equipment with User Interface with Fire Brigade Controls - 1 Loop Small Cabinet Incorporating the following units: 2010-2F1-MB Main control board KFP-A-UI-E User interface control board 2010-2-PS-40 4A Power Supply Incorporating the following optional modules: KFP-A-ZI-20 (20 Zone) (Large cabinet variant only) KFP-A-ZI-40 (40 Zone) (Large cabinet variant only) KFP-A-ZI-24-S (24 Zone) (Small cabinet variant only) 2010-2-NB Network card KFP-A-LB Loop Board (Large cabinet variant only) 2010-2-232-KIT Interface board for external printer 2010-2-PS-C2 UK mains cable for large cabinet 2010-2-PS-C2-S UK mains cable for small cabinet 2010-2-PIB-8O Peripheral Interface Board 8 outputs (Large cabinet variant only) 2010-2-PIB-8I Peripheral Interface Board 8 inputs (Large cabinet variant only) 2010-2-PIB-8I8O Peripheral Interface Board 8 outputs and 8 inputs (Large cabinet variant only) 2010-2-DACT With ATS7310 (GSM module) 2010-FS-EOL Fault Supervision End of Line unit The above fire panels are certified with the following options with requirements from EN 54-2: 7.8 Output to fire alarm device(s) 7.9.1 Output to fire alarm routing equipment 7.9.2 Alarm confirmation input from fire alarm routing equipment 7.10 Output to fire protection equipment (Type A, B, and C) 7.11 Delays to outputs 7.12 Dependencies on more than one alarm signal (Type A, B and C) 7.13 Alarm counter 8.4 Total loss of the power supply 8.9 Output to fault warning routing equipment 9.5 Disablement of addressable points 10 Test condition *Notes:* *1. This product approval does not constitute compliance with the fire detection and alarm systems requirements of EN 54-13.* *2. Scope of the approval does not indicate the operation of the network functionality.* *3. Available with the following language kit options:* *01 Dutch (NL) The Netherlands, 02 French (FR) France, 03 English (UK) United Kingdom and Ireland, 04 German (DE) Germany, 05 Norwegian Norway, 06 Swedish*	1199a/08

Certificated Products		LPCB Ref. No.
	Sweden, 07 Danish (DK) Denmark, 08 English (AU) Australia, 09 Spanish Spain, 10 Italian Italy, 11 Dutch (BE) Belgium,12 Irish Ireland, 13 German (AU) German (Austria), 14 Greek Greece, 15 Arabic Middle East, 17 English (US) United States of America, 18 Polish Poland, 19 Turkish Turkey, 20 Czech Czech Republic, 21 Portuguese Portugal, 22 Hungarian Hungary, 23 Danish (IC) Iceland, 24 Slovakian Slovak Republic, 25 Russian Russia, 27 Lithuanian Lithuania, 28 Finnish Finland, 29 German (SW) Switzerland, 30 Estonian Estonia, 31 Latvian Latvia, 32 French (BE) Belgium, 33 French (SW) Switzerland, 34 Italian (SW) Switzerland, 36 French (Int) International French, 40 Bulgarian Bulgaria, 41 Belarusian Belarus, 43 Ukrainian Ukraine, 44 Serbian Serbia, 45 Romanian (RO) Romania, 46 German (Int) International German, 48 Croatian Croatia, 49 Macedonian Macedonia, 50 Slovenian Slovenia, 51 Hebrew Israel, 71 Catalan Catalonia (Spain), 80 Chinese China, 99 English (Int) International English.	
ZP2-E1 ZP2-E1-S	Intelligent Analogue Addressable Fire and Evacuation Control and Indicating Equipment with User Interface with Fire Brigade Controls - 1 Loop Intelligent Analogue Addressable Fire and Evacuation Control and Indicating Equipment with User Interface with Fire Brigade Controls - 1 Loop Small Cabinet Incorporating the following units: 2010-2F1-MB Main control board ZP2-UI-E User interface control board 2010-2-PS-40 4A Power Supply Incorporating the following optional modules: ZP2-ZI-20 (20 Zone) (Large cabinet variant only) ZP2-ZI-40 (40 Zone) (Large cabinet variant only) ZP2-ZI-24-S (24 Zone) (Small cabinet variant only) 2010-2-NB Network card ZP2-LB Loop Board (Large cabinet variant only) 2010-2-232-KIT Interface board for external printer 2010-2-PS-C2 UK mains cable for large cabinet 2010-2-PS-C2-S UK mains cable for small cabinet 2010-2-PIB-8O Peripheral Interface Board 8 outputs (Large cabinet variant only) 2010-2-PIB-8I Peripheral Interface Board 8 inputs (Large cabinet variant only) 2010-2-PIB-8I8O Peripheral Interface Board 8 outputs and 8 inputs (Large cabinet variant only) 2010-2-DACT With ATS7310 (GSM module) 2010-FS-EOL Fault Supervision End of Line unit ZP2-D-E-TP Translucent door option for large cabinet* ZP2-D-E-TP-S Translucent door option for small cabinet* The above fire panels are certified with the following options with requirements from EN 54-2: 7.8 Output to fire alarm device(s) 7.9.1 Output to fire alarm routing equipment 7.9.2 Alarm confirmation input from fire alarm routing equipment 7.10 Output to fire protection equipment (Type A, B, and C) 7.11 Delays to outputs 7.12 Dependencies on more than one alarm signal (Type A, B and C) 7.13 Alarm counter 8.4 Total loss of the power supply 8.9 Output to fault warning routing equipment 9.5 Disablement of addressable points 10 Test condition *Notes:* *1. This product approval does not constitute compliance with the fire detection and alarm systems requirements of EN 54-13.* *2. Scope of the approval does not indicate the operation of the network functionality* *3. Available with the following language kits:* *01 Dutch (NL) The Netherlands, 02 French (FR) France, 03 English (UK) United Kingdom and Ireland, 04 German (DE) Germany, 05 Norwegian Norway, 06 Swedish Sweden, 07 Danish (DK) Denmark, 08 English (AU) Australia, 09 Spanish Spain, 10 Italian Italy, 11 Dutch (BE) Belgium, 12 Irish Ireland, 13 German (AU) German (Austria), 14 Greek Greece, 15 Arabic Middle East, 17 English (US) United States of America, 18 Polish Poland, 19 Turkish Turkey, 20 Czech Czech Republic, 21 Portuguese Portugal, 22 Hungarian Hungary, 23 Danish (IC) Iceland, 24 Slovakian Slovak Republic, 25 Russian Russia, 27 Lithuanian Lithuania, 28 Finnish Finland, 29 German (SW) Switzerland, 30 Estonian Estonia, 31 Latvian Latvia, 32 French (BE) Belgium, 33 French (SW) Switzerland, 34 Italian (SW) Switzerland, 36 French (Int) International French, 40 Bulgarian Bulgaria, 41 Belarusian Belarus, 43 Ukrainian Ukraine, 44 Serbian Serbia, 45 Romanian (RO) Romania, 46 German (Int) International German, 48 Croatian Croatia, 49 Macedonian Macedonia,50 Slovenian Slovenia, 51 Hebrew Israel, 71 Catalan Catalonia (Spain), 80 Chinese China, 99 English (Int) International English*	1199a/08

Certificated Products		LPCB Ref. No.
	*4. *The translucent door does not meet EN54-2 access level 1 requirements. To meet EN54-2 requirements with the door fitted the following is also required:* *i. A Zone indicator board to display the zones in alarm (to meet requirements of EN54-2 part 7.3).* *A MCP (without program delay) fitted beside the panel to allow overriding of delays (to meet requirements of EN54-2 part 7.11).*	
2X-F1-SCFB 2X-F1-SCFB-S	Intelligent Analogue Addressable Control and Indicating Equipment with User Interface with SS3654 Fire Brigade Controls - 1 Loop with Scandinavian Key Switch Intelligent Analogue Addressable Control and Indicating Equipment with User Interface with SS3654 Fire Brigade Controls - 1 Loop Small Cabinet with Scandinavian Key Switch Incorporating the following units: 2010-2F1-MB Main control board 2X-UI-SCFB User interface control board 2010-2-PS-40 4A Power Supply Incorporating the following optional modules: 2X-ZI-20 (20 Zone) (Large cabinet variant only) 2X-ZI-40 (40 Zone) (Large cabinet variant only) 2010-2-NB Network card 2X-LB Loop Board (Large cabinet variant only) 2010-2-232-KIT Interface board for external printer 2010-SK Scandinavian key and lock assembly 2010-2-PS-C2 UK mains cable for large cabinet 2010-2-PS-C2-S UK mains cable for small cabinet 2010-2-PIB-8O Peripheral Interface Board 8 outputs (Large cabinet variant only) 2010-2-PIB-8I Peripheral Interface Board 8 inputs (Large cabinet variant only) 2010-2-PIB-8I8O Peripheral Interface Board 8 outputs and 8 inputs (Large cabinet variant only) 2010-2-DACT With ATS7310 (GSM module) 2010-FS-EOL Fault Supervision End of Line unit The above fire panels are certified with the following options with requirements from EN 54-2: 7.8 Output to fire alarm devices 7.9.1 Output to fire alarm routing equipment 7.9.2 Alarm confirmation input from fire alarm routing equipment 7.10 Output to fire protection equipment (Type A, B, and C) 7.11 Delays to outputs 7.12 Dependencies on more than one alarm signal (Type A, B and C) 7.13 Alarm counter 8.4 Total loss of the power supply 8.9 Output to fault warning routing equipment 9.5 Disablement of addressable points 10 Test condition *Notes:* *1. This product approval does not constitute compliance with the fire detection and alarm systems requirements of EN 54-13.* *2. Scope of the approval does not indicate the operation of the network functionality.* *3. Available with the following language kit options:* *01 Dutch (NL) The Netherlands, 02 French (FR), 03 English (UK) United Kingdom and Ireland, 04 German (DE), 05 Norwegian, 06 Swedish, 07 Danish (DK), 08 English (AU) Australia, 09 Spanish, 10 Italian, 11 Dutch (BE) Belgium, 12 Irish, 13 German (AU) (Austria), 14 Greek, 15 Arabic,-17 English (US) United States of America, 18 Polish, 19 Turkish, 20 Czech Republic, 21 Portuguese, 22 Hungarian, 23 Danish (IC) Iceland, 24 Slovakian, 25 Russian, 27 Lithuanian, 28 Finnish, 29 German (SW) Switzerland, 30 Estonian, 31 Latvian, 32 French (BE) Belgium, 33 French (SW) Switzerland, 34 Italian (SW) Switzerland, 36 French (Int) International, 40 Bulgarian, 41 Belarusian, 43 Ukrainian, 44 Serbian, 45 Romanian (RO), 46 German (Int) International, 48 Croatian, 49 Macedonian, 50 Slovenian, 51 Hebrew, 71 Catalan, 80 Chinese, 99 English (Int) International English.*	1199a/09
KFP-AF1-SCFB KFP-AF1-SCFB-S	Intelligent Analogue Addressable Control and Indicating Equipment with User Interface with SS3654 Fire Brigade Controls - 1 Loop with Scandinavian Key Switch Intelligent Analogue Addressable Control and Indicating Equipment with User Interface with Fire Brigade Controls - 2 Loop with Printer with Scandinavian Key Switch Incorporating the following units: 2010-2F1-MB Main control board KFP-A-UI-SCFB User interface control board 2010-2-PS-40 4A Power Supply Incorporating the following optional modules:	1199a/09

Certificated Products		LPCB Ref. No.
	KFP-A-ZI-20 (20 Zone) (Large cabinet variant only) KFP-A-ZI-40 (40 Zone) (Large cabinet variant only) 2010-2-NB Network card KFP-A-LB Loop Board (Large cabinet variant only) 2010-2-232-KIT Interface board for external printer 2010-SK Scandinavian key and lock assembly 2010-2-PS-C2 UK mains cable for large cabinet 2010-2-PS-C2-S UK mains cable for small cabinet 2010-2-PIB-8O Peripheral Interface Board 8 outputs (Large cabinet variant only) 2010-2-PIB-8I Peripheral Interface Board 8 inputs (Large cabinet variant only) 2010-2-PIB-8I8O Peripheral Interface Board 8 outputs and 8 inputs (Large cabinet variant only) 2010-2-DACT With ATS7310 (GSM module) 2010-FS-EOL Fault Supervision End of Line unit The above fire panels are certified with the following options with requirements from EN 54-2: 7.8 Output to fire alarm devices 7.9.1 Output to fire alarm routing equipment 7.9.2 Alarm confirmation input from fire alarm routing equipment 7.10 Output to fire protection equipment (Type A, B, and C) 7.11 Delays to outputs 7.12 Dependencies on more than one alarm signal (Type A, B and C) 7.13 Alarm counter 8.4 Total loss of the power supply 8.9 Output to fault warning routing equipment 9.5 Disablement of addressable points 10 Test condition *Notes:* *1. Scope of approval does not include the operation of the network functionality* *2.This product approval does not constitute compliance with the fire detection and alarm system requirements of EN54-13.*	
ZP2-F1-SCFB ZP2-F1-SCFB-S	Intelligent Analogue Addressable Control and Indicating Equipment with User Interface with SS3654 Fire Brigade Controls - 1 Loop with Scandinavian Key Switch Intelligent Analogue Addressable Control and Indicating Equipment with User Interface with SS3654 Fire Brigade Controls - 1 Loop Small Cabinet with Scandinavian Key Switch Incorporating the following units: 2010-2F1-MB Main control board ZP2-UI-SCFB User interface control board 2010-2-PS-40 4A Power Supply Incorporating the following optional modules: ZP2-ZI-20 (20 Zone) (Large cabinet variant only) ZP2-ZI-40 (40 Zone) (Large cabinet variant only) 2010-2-NB Network card ZP2-LB Loop Board (Large cabinet variant only) 2010-2-232-KIT Interface board for external printer 2010-SK Scandinavian key and lock assembly 2010-2-PS-C2 UK mains cable for large cabinet 2010-2-PS-C2-S UK mains cable for small cabinet 2010-2-PIB-8O Peripheral Interface Board 8 outputs (Large cabinet variant only) 2010-2-PIB-8I Peripheral Interface Board 8 inputs (Large cabinet variant only) 2010-2-PIB-8I8O Peripheral Interface Board 8 outputs and 8 inputs (Large cabinet variant only) 2010-2-DACT With ATS7310 (GSM module) 2010-FS-EOL Fault Supervision End of Line unit The above fire panels are certified with the following options with requirements from EN 54-2: 7.8 Output to fire alarm devices 7.9.1 Output to fire alarm routing equipment 7.9.2 Alarm confirmation input from fire alarm routing equipment 7.10 Output to fire protection equipment (Type A, B, and C) 7.11 Delays to outputs 7.12 Dependencies on more than one alarm signal (Type A, B and C) 7.13 Alarm counter 8.4 Total loss of the power supply 8.9 Output to fault warning routing equipment 9.5 Disablement of addressable points 10 Test condition *Notes:*	1199a/09

Certificated Products		LPCB Ref. No.
	1. Scope of approval does not include the operation of the network functionality *2.This product approval does not constitute compliance with the fire detection and alarm system requirements of EN54-13.*	
2X-F2 2X-F2-PRT 2X-F2-S	Intelligent Analogue Addressable Control and Indicating Equipment with User Interface - 2 Loop Intelligent Analogue Addressable Control and Indicating Equipment with User Interface - 2 Loop with Printer Intelligent Analogue Addressable Control and Indicating Equipment with User Interface - 2 Loop Small Cabinet Incorporating the following units: 2010-2F2-MB Main control board 2X-UI User interface control board 2010-2-PS-40 4A Power Supply Incorporating the following optional modules: 2X-ZI-20 (20 Zone) (Large cabinet variant only) 2X-ZI-40 (40 Zone) (Large cabinet variant only) 2X-ZI-24-S (24 Zone) (Small cabinet variant only) 2010-2-NB Network card 2X-LB Loop Board (Large cabinet variant only) 2010-2-232-KIT Interface board for external printer 2010-2-PS-C2 UK mains cable for large cabinet 2010-2-PS-C2-S UK mains cable for small cabinet 2010-2-PRT Door mounted printer module (2X-F2-PRT variant only) 2010-2-PIB-8O Peripheral Interface Board 8 outputs (Large cabinet variant only) 2010-2-PIB-8I Peripheral Interface Board 8 inputs (Large cabinet variant only) 2010-2-PIB-8I8O Peripheral Interface Board 8 outputs and 8 inputs (Large cabinet variant only) 2010-2-DACT With ATS7310 (GSM module) 2X-D-TP Translucent door option for large cabinet* (2X-F2 variant only) 2X-D-TP-S Translucent door option for small cabinet* (2X-F2-S variant only) 2010-FS-EOL Fault Supervision End of Line unit The above fire panels are certified with the following options with requirements from EN 54-2: 7.8 Output to fire alarm devices 7.11 Delays to outputs 7.12 Dependencies on more than one alarm signal (Type A, B and C) 7.13 Alarm counter 8.4 Total loss of the power supply 8.9 Output to fault warning routing equipment 9.5 Disablement of addressable points 10 Test condition *Notes:* *1. Scope of approval does not include the operation of the network functionality* *2. This product approval does not constitute compliance with the fire detection and alarm system requirements of EN54-13.* *3. *The translucent door does not meet EN54-2 access level 1 requirements. To meet EN54-2 requirements with the door fitted the following is also required:* *i. A Zone indicator board to display the zones in alarm (to meet requirements of EN54-2 part 7.3)* *ii. A MCP (without program delay) fitted beside the panel to allow overriding of delays (to meet requirements of EN54-2 part 7.11)*	1199a/10
KFP-AF2 KFP-AF2-PRT KFP-AF2-S	Intelligent Analogue Addressable Control and Indicating Equipment with User Interface - 2 Loop Intelligent Analogue Addressable Control and Indicating Equipment with User Interface - 2 Loop with Printer Intelligent Analogue Addressable Control and Indicating Equipment with User Interface - 2 Loop Small Cabinet Incorporating the following units: 2010-2F2-MB Main control board KFP-A-UI User interface control board 2010-2-PS-40 4A Power Supply Incorporating the following optional modules: KFP-A-ZI-20 (20 Zone) (Large cabinet variant only) KFP-A-ZI-40 (40 Zone) (Large cabinet variant only) KFP-A-ZI-24-S (24 Zone) (Small cabinet variant only) 2010-2-NB Network card KFP-A-LB Loop Board (Large cabinet variant only)	1199a/10

Certificated Products		LPCB Ref. No.
	2010-2-232-KIT Interface board for external printer 2010-2-PS-C2 UK mains cable for large cabinet 2010-2-PS-C2-S UK mains cable for small cabinet 2010-2-PRT Door mounted printer module (KFP-A-F2-PRT variant only) 2010-2-PIB-8O Peripheral Interface Board 8 outputs (Large cabinet variant only) 2010-2-PIB-8I Peripheral Interface Board 8 inputs (Large cabinet variant only) 2010-2-PIB-8I8O Peripheral Interface Board 8 outputs and 8 inputs (Large cabinet variant only) 2010-2-DACT With ATS7310 (GSM module) 2010-FS-EOL Fault Supervision End of Line unit The above fire panels are certified with the following options with requirements from EN 54-2: 7.8 Output to fire alarm devices 7.11 Delays to outputs 7.12 Dependencies on more than one alarm signal (Type A, B and C) 7.13 Alarm counter 8.4 Total loss of the power supply 8.9 Output to fault warning routing equipment 9.5 Disablement of addressable points 10 Test condition *Notes:* *1. Scope of approval does not include the operation of the network functionality* *2. This product approval does not constitute compliance with the fire detection and alarm system requirements of EN54-13.*	
ZP2-F2 ZP2-F2-PRT ZP2-F2-S	Intelligent Analogue Addressable Control and Indicating Equipment with User Interface - 2 Loop Intelligent Analogue Addressable Control and Indicating Equipment with User Interface - 2 Loop with Printer Intelligent Analogue Addressable Control and Indicating Equipment with User Interface - 2 Loop Small Cabinet Incorporating the following units: 2010-2F2-MB Main control board ZP2-UI User interface control board 2010-2-PS-40 4A Power Supply Incorporating the following optional modules: ZP2-ZI-20 (20 Zone) (Large cabinet variant only) ZP2-ZI-40 (40 Zone) (Large cabinet variant only) ZP2-ZI-24-S (24 Zone) (Small cabinet variant only) 2010-2-NB Network card ZP2-LB Loop Board (Large cabinet variant only) 2010-2-232-KIT Interface board for external printer 2010-2-PS-C2 UK mains cable for large cabinet 2010-2-PS-C2-S UK mains cable for small cabinet 2010-2-PRT Door mounted printer module (ZP2-F2-PRT variant only) 2010-2-PIB-8O Peripheral Interface Board 8 outputs (Large cabinet variant only) 2010-2-PIB-8I Peripheral Interface Board 8 inputs (Large cabinet variant only) 2010-2-PIB-8I8O Peripheral Interface Board 8 outputs and 8 inputs (Large cabinet variant only) 2010-2-DACT With ATS7310 (GSM module) 2010-FS-EOL Fault Supervision End of Line unit ZP2-D-TP Translucent door option for large cabinet* (ZP2-F2 variant only) ZP2-D-TP-S Translucent door option for small cabinet* (ZP2-F2-S variant only) The above fire panels are certified with the following options with requirements from EN 54-2: 7.8 Output to fire alarm devices 7.11 Delays to outputs 7.12 Dependencies on more than one alarm signal (Type A, B and C) 7.13 Alarm counter 8.4 Total loss of the power supply 8.9 Output to fault warning routing equipment 9.5 Disablement of addressable points 10 Test condition *Notes:* *1. Scope of approval does not include the operation of the network functionality* *2. This product approval does not constitute compliance with the fire detection and alarm system requirements of EN54-13.*	1199a/10

Certificated Products		LPCB Ref. No.
	*3. *The translucent door does not meet EN54-2 access level 1 requirements. To meet EN54-2 requirements with the door fitted the following is also required:* *i. A Zone indicator board to display the zones in alarm (to meet requirements of EN54-2 part 7.3)* *ii. A MCP (without program delay) fitted beside the panel to allow overriding of delays (to meet requirements of EN54-2 part 7.11).*	
2X-F2-FB2 2X-F2-FB2-PRT 2X-F2-FB2 -S	Intelligent Analogue Addressable Control and Indicating Equipment with User Interface with Fire Brigade Controls - 2 Loop Intelligent Analogue Addressable Control and Indicating Equipment with User Interface with Fire Brigade Controls - 2 Loop with Printer Intelligent Analogue Addressable Control and Indicating Equipment with User Interface with Fire Brigade Controls - 2 Loop Small Cabinet Incorporating the following units: 2010-2F2-MB Main control board 2X-UI-FB2 User interface control board 2010-2-PS-40 4A Power Supply Incorporating the following optional modules: 2X-ZI-20 (20 Zone) (Large cabinet variant only) 2X-ZI-40 (40 Zone) (Large cabinet variant only) 2X-ZI-24-S (24 Zone) (Small cabinet variant only) 2010-2-NB Network card 2X-LB Loop Board (Large cabinet variant only) 2010-2-232-KIT Interface board for external printer 2010-2-PS-C2 UK mains cable for large cabinet 2010-2-PS-C2-S UK mains cable for small cabinet 2010-2-PRT Door mounted printer module (2X-F2-FB2-PRT variant only) 2010-2-PIB Peripheral Interface Board (Germany) (Large cabinet variant only) 2010-2-PIB-8O Peripheral Interface Board 8 outputs (Large cabinet variant only) 2010-2-PIB-8I Peripheral Interface Board 8 inputs (Large cabinet variant only) 2010-2-PIB-8I8O Peripheral Interface Board 8 outputs and 8 inputs (Large cabinet variant only) ADP-N3E-U IFAM interface card (master) (Large cabinet variant only) ADP-N3S Interface card (slave) (Large cabinet variant only) 2010-2-DACT With ATS7310 (GSM module) 2X-D-FB2-TP Translucent door option for large cabinet* (2X-F2-FB2 variant only) 2X-D-FB2-TP-S Translucent door option for large cabinet* (2X-F2-FB2-S variant only) 2010-FS-EOL Fault Supervision End of Line unit The above fire panels are certified with the following options with requirements from EN 54-2: 7.8 Output to fire alarm devices 7.9.1 Output to fire alarm routing equipment 7.9.2 Alarm confirmation input from fire alarm routing equipment 7.10 Output to fire protection equipment (Type A, B, and C) 7.11 Delays to outputs 7.12 Dependencies on more than one alarm signal (Type A, B and C) 7.13 Alarm counter 8.4 Total loss of the power supply 8.9 Output to fault warning routing equipment 9.5 Disablement of addressable points 10 Test condition *Notes:* *1. Scope of approval does not include the operation of the network functionality* *2. This product approval does not constitute compliance with the fire detection and alarm system requirements of EN54-13.* *3.*The translucent door does not meet EN54-2 access level 1 requirements. To meet EN54-2 requirements with the door fitted the following is also required:* *i. A Zone indicator board to display the zones in alarm (to meet requirements of EN54-2 part 7.3)* *ii. A MCP (without program delay) fitted beside the panel to allow overriding of delays (to meet requirements of EN54-2 part 7.11).*	1199a/12
KFP-AF2-FB2 KFP-AF2-FB2-PRT KFP-AF2-FB2-S	Intelligent Analogue Addressable Control and Indicating Equipment with User Interface with Fire brigade Controls - 2 Loop Intelligent Analogue Addressable Control and Indicating Equipment with User Interface with Fire Brigade Controls - 2 Loop with Printer Intelligent Analogue Addressable Control and Indicating Equipment with User Interface with Fire Brigade Controls - 2 Loop Small Cabinet	1199a/12

Certificated Products		LPCB Ref. No.
	Incorporating the following units: 2010-2F2-MB Main control board KFP-A-UI-FB2 User interface control board 2010-2-PS-40 4A Power Supply Incorporating the following optional modules: KFP-A-ZI-20 (20 Zone) (Large cabinet variant only) KFP-A-ZI-40 (40 Zone) (Large cabinet variant only) KFP-A-ZI-24-S (24 Zone) (Small cabinet variant only) 2010-2-NB Network card KFP-A-LB Loop Board (Large cabinet variant only) 2010-2-232-KIT Interface board for external printer 2010-2-PS-C2 UK mains cable for large cabinet 2010-2-PS-C2-S UK mains cable for small cabinet 2010-2-PRT Door mounted printer module (KFP-A-F2-FB2-PRT variant only) 2010-2-PIB Peripheral Interface Board (Germany) (Large cabinet variant only) 2010-2-PIB-8O Peripheral Interface Board 8 outputs (Large cabinet variant only) 2010-2-PIB-8I Peripheral Interface Board 8 inputs (Large cabinet variant only) 2010-2-PIB-8I8O Peripheral Interface Board 8 outputs and 8 inputs (Large cabinet variant only) ADP-N3E-U (Large cabinet variant only) ADP-N3S (Large cabinet variant only) 2010-2-DACT With ATS7310 (GSM module) 2010-FS-EOL Fault Supervision End of Line unit The above fire panels are certified with the following options with requirements from EN 54-2: 7.8 Output to fire alarm devices 7.9.1 Output to fire alarm routing equipment 7.9.2 Alarm confirmation input from fire alarm routing equipment 7.10 Output to fire protection equipment (Type A, B, and C) 7.11 Delays to outputs 7.12 Dependencies on more than one alarm signal (Type A, B and C) 7.13 Alarm counter 8.4 Total loss of the power supply 8.9 Output to fault warning routing equipment 9.5 Disablement of addressable points 10 Test condition *Notes:* *1. Scope of approval does not include the operation of the network functionality* *2. This product approval does not constitute compliance with the fire detection and alarm system requirements of EN54-13.*	
ZP2-F2-FB2 ZP2-F2-FB2-PRT ZP2-F2-FB2 -S	Intelligent Analogue Addressable Control and Indicating Equipment with User Interface with Fire Brigade Controls - 2 Loop Intelligent Analogue Addressable Control and Indicating Equipment with User Interface with Fire Brigade Controls - 2 Loop with Printer Intelligent Analogue Addressable Control and Indicating Equipment with User Interface with Fire Brigade Controls - 2 Loop Small Cabinet Incorporating the following units: 2010-2F2-MB Main control board ZP2-UI-FB2 User interface control board 2010-2-PS-40 4A Power Supply Incorporating the following optional modules: ZP2-ZI-20 (20 Zone) (Large cabinet variant only) ZP2-ZI-40 (40 Zone) (Large cabinet variant only) ZP2-ZI-24-S (24 Zone) (Small cabinet variant only) 2010-2-NB Network card ZP2-LB Loop Board (Large cabinet variant only) 2010-2-232-KIT Interface board for external printer 2010-2-PS-C2 UK mains cable for large cabinet 2010-2-PS-C2-S UK mains cable for small cabinet 2010-2-PRT Door mounted printer module (ZP2-F2-FB2-PRT variant only) 2010-2-PIB Peripheral Interface Board (Germany) (Large cabinet variant only) 2010-2-PIB-8O Peripheral Interface Board 8 outputs (Large cabinet variant only) 2010-2-PIB-8I Peripheral Interface Board 8 inputs (Large cabinet variant only) The above fire panels are certified with the following options with requirements from EN 54-2: 7.8 Output to fire alarm devices 7.9.1 Output to fire alarm routing equipment	1199a/12

Certificated Products			LPCB Ref. No.
		7.9.2 Alarm confirmation input from fire alarm routing equipment 7.10 Output to fire protection equipment (Type A, B, and C) 7.11 Delays to outputs 7.12 Dependencies on more than one alarm signal (Type A, B and C) 7.13 Alarm counter 8.4 Total loss of the power supply 8.9 Output to fault warning routing equipment 9.5 Disablement of addressable points 10 Test condition *Notes:* *1. Scope of approval does not include the operation of the network functionality* *2. This product approval does not constitute compliance with the fire detection and alarm system requirements of EN54-13.* *3. *The translucent door does not meet EN54-2 access level 1 requirements. To meet EN54-2 requirements with the door fitted the following is also required:* *i. A Zone indicator board to display the zones in alarm (to meet requirements of EN54-2 part 7.3)* *ii. A MCP (without program delay) fitted beside the panel to allow overriding of delays (to meet requirements of EN54-2 part 7.11)*	
2X-F2-SCFB 2X-F2-SCFB-S		Intelligent Analogue Addressable Control and Indicating Equipment with User Interface with SS3654 Fire Brigade Controls - 2 Loop with Scandinavian Key Switch Intelligent Analogue Addressable Control and Indicating Equipment with User Interface with SS3654 Fire Brigade Controls - 2 Loop Small Cabinet with Scandinavian Key Switch Incorporating the following units: 2010-2F2-MB Main control board 2X-UI-SCFB User interface control board 2010-2-PS-40 4A Power Supply Incorporating the following optional modules: 2X-ZI-20 (20 Zone) (Large cabinet variant only) 2X-ZI-40 (40 Zone) (Large cabinet variant only) 2010-2-NB Network card 2X-LB Loop Board (Large cabinet variant only) 2010-2-232-KIT Interface board for external printer 2010-SK Scandinavian key and lock assembly 2010-2-PS-C2 UK mains cable for large cabinet 2010-2-PS-C2-S UK mains cable for small cabinet 2010-2-PIB-8O Peripheral Interface Board 8 outputs (Large cabinet variant only) 2010-2-PIB-8I Peripheral Interface Board 8 inputs (Large cabinet variant only) 2010-2-PIB-8I8O Peripheral Interface Board 8 outputs and 8 inputs (Large cabinet variant only) 2010-2-DACT With ATS7310 (GSM module) 2010-FS-EOL Fault Supervision End of Line unit The above fire panels are certified with the following options with requirements from EN 54-2: 7.8 Output to fire alarm devices 7.9.1 Output to fire alarm routing equipment 7.9.2 Alarm confirmation input from fire alarm routing equipment 7.10 Output to fire protection equipment (Type A, B, and C) 7.11 Delays to outputs 7.12 Dependencies on more than one alarm signal (Type A, B and C) 7.13 Alarm counter 8.4 Total loss of the power supply 8.9 Output to fault warning routing equipment 9.5 Disablement of addressable points 10 Test condition *Notes:* *1. Scope of approval does not include the operation of the network functionality* *2. This product approval does not constitute compliance with the fire detection and alarm system requirements of EN54-13.*	1199a/13
KFP-AF2-SCFB KFP-AF2-SCFB-S		Intelligent Analogue Addressable Control and Indicating Equipment with User Interface with SS3654 Fire Brigade Controls - 2 Loop with Scandinavian Key Switch Intelligent Analogue Addressable Control and Indicating Equipment with User Interface with SS3654 Fire Brigade Controls - 2 Loop Small Cabinet with Scandinavian Key Switch Incorporating the following units: 2010-2F2-MB Main control board KFP-A-UI-SCFB User interface control board 2010-2-PS-40 4A Power Supply	1199a/13

Certificated Products		LPCB Ref. No.
	Incorporating the following optional modules: KFP-A-ZI-20 (20 Zone) (Large cabinet variant only) KFP-A-ZI-40 (40 Zone) (Large cabinet variant only) 2010-2-NB Network card KFP-A-LB Loop Board (Large cabinet variant only) 2010-2-232-KIT Interface board for external printer 2010-SK Scandinavian key and lock assembly 2010-2-PS-C2 UK mains cable for large cabinet 2010-2-PS-C2-S UK mains cable for small cabinet 2010-2-PRT Door mounted printer module (KFP-A-F2-SCFB-PRT variant only) 2010-2-PIB-8O Peripheral Interface Board 8 outputs (Large cabinet variant only) 2010-2-PIB-8I Peripheral Interface Board 8 inputs (Large cabinet variant only) 2010-2-PIB-8I8O Peripheral Interface Board 8 outputs and 8 inputs (Large cabinet variant only) 2010-2-DACT With ATS7310 (GSM module) 2010-FS-EOL Fault Supervision End of Line unit The above fire panels are certified with the following options with requirements from EN 54-2: 7.8 Output to fire alarm devices 7.9.1 Output to fire alarm routing equipment 7.9.2 Alarm confirmation input from fire alarm routing equipment 7.10 Output to fire protection equipment (Type A, B, and C) 7.11 Delays to outputs 7.12 Dependencies on more than one alarm signal (Type A, B and C) 7.13 Alarm counter 8.4 Total loss of the power supply 8.9 Output to fault warning routing equipment 9.5 Disablement of addressable points 10 Test condition *Notes:* *1. Scope of approval does not include the operation of the network functionality* *2. This product approval does not constitute compliance with the fire detection and alarm system requirements of EN54-13.*	
ZP2-F2-SCFB ZP2-F2-SCFB-S	Intelligent Analogue Addressable Control and Indicating Equipment with User Interface with SS3654 Fire Brigade Controls - 2 Loop with Scandinavian Key Switch Intelligent Analogue Addressable Control and Indicating Equipment with User Interface with SS3654 Fire Brigade Controls - 2 Loop Small Cabinet with Scandinavian Key Switch Incorporating the following units: 2010-2F2-MB Main control board ZP2-UI-SCFB User interface control board 2010-2-PS-40 4A Power Supply Incorporating the following optional modules: ZP2-ZI-20 (20 Zone) (Large cabinet variant only) ZP2-ZI-40 (40 Zone) (Large cabinet variant only) 2010-2-NB Network card ZP2-LB Loop Board (Large cabinet variant only) 2010-2-232-KIT Interface board for external printer 2010-2-232-KIT Interface board for external printer 2010-SK Scandinavian key and lock assembly 2010-2-PS-C2 UK mains cable for large cabinet 2010-2-PS-C2-S UK mains cable for small cabinet 2010-2-PIB-8O Peripheral Interface Board 8 outputs (Large cabinet variant only) 2010-2-PIB-8I Peripheral Interface Board 8 inputs (Large cabinet variant only) 2010-2-PIB-8I8O Peripheral Interface Board 8 outputs and 8 inputs (Large cabinet variant only) 2010-2-DACT With ATS7310 (GSM module)2010-FS-EOL Fault Supervision End of Line unit The above fire panels are certified with the following options with requirements from EN 54-2: 7.8 Output to fire alarm devices 7.9.1 Output to fire alarm routing equipment 7.9.2 Alarm confirmation input from fire alarm routing equipment 7.10 Output to fire protection equipment (Type A, B, and C) 7.11 Delays to outputs 7.12 Dependencies on more than one alarm signal (Type A, B and C) 7.13 Alarm counter 8.4 Total loss of the power supply 8.9 Output to fault warning routing equipment	1199a/13

Certificated Products			LPCB Ref. No.
		9.5 Disablement of addressable points 10 Test condition *Notes:* *1. Scope of approval does not include the operation of the network functionality* *2. This product approval does not constitute compliance with the fire detection and alarm system requirements of EN54-13.*	
2X-E2	2X-E2-S	Intelligent Analogue Addressable Fire and Evacuation Control and Indicating Equipment with User Interface with Fire Brigade Controls - 2 Loop Intelligent Analogue Addressable Fire and Evacuation Control and Indicating Equipment with User Interface with Fire Brigade Controls - 2 Loop Small Cabinet Incorporating the following units: 2010-2F2-MB Main control board 2X-UI-E User interface control board 2010-2-PS-40 4A Power Supply Incorporating the following optional modules: 2X-ZI-20 (20 Zone) (Large cabinet variant only) 2X-ZI-40 (40 Zone) (Large cabinet variant only) 2X-ZI-24-S (24 Zone) (Small cabinet variant only) 2010-2-NB Network card 2X-LB Loop Board (Large cabinet variant only) 2010-2-232-KIT Interface board for external printer 2010-2-PS-C2 UK mains cable for large cabinet 2010-2-PS-C2-S UK mains cable for small cabinet 2010-2-PIB-8O Peripheral Interface Board 8 outputs (Large cabinet variant only) 2010-2-PIB-8I Peripheral Interface Board 8 inputs (Large cabinet variant only) 2010-2-PIB-8I8O Peripheral Interface Board 8 outputs and 8 inputs (Large cabinet variant only) 2010-2-DACT With ATS7310 (GSM module) 2X-D-E-TP Translucent door option for large cabinet* 2X-D-E-TP-S Translucent door option for large cabinet* 2010-FS-EOL Fault Supervision End of Line unit The above fire panels are certified with the following options with requirements from EN 54-2: 7.8 Output to fire alarm devices 7.9.1 Output to fire alarm routing equipment 7.9.2 Alarm confirmation input from fire alarm routing equipment 7.10 Output to fire protection equipment (Type A, B, and C) 7.11 Delays to outputs 7.12 Dependencies on more than one alarm signal (Type A, B and C) 7.13 Alarm counter 8.4 Total loss of the power supply 8.9 Output to fault warning routing equipment 9.5 Disablement of addressable points 10 Test condition *Notes:* *1. This product approval does not constitute compliance with the fire detection and alarm systems requirements of EN 54-13.* *2. Scope of the approval does not indicate the operation of the network functionality.* *3. Available with the following language kits: -* *01 Dutch (NL) The Netherlands, 02 French (FR) France, 03 English (UK) United Kingdom and Ireland, 04 German (DE) Germany, 05 Norwegian Norway, 06 Swedish Sweden, 07 Danish (DK) Denmark, 08 English (AU) Australia, 09 Spanish Spain, 10 Italian Italy, 11 Dutch (BE) Belgium, 12 Irish Ireland, 13 German (AU) German (Austria), 14 Greek Greece, 15 Arabic Middle East, 17 English (US) United States of America, 18 Polish Poland, 19 Turkish Turkey, 20 Czech Czech Republic, 21 Portuguese Portugal, 22 Hungarian Hungary, 23 Danish (IC) Iceland, 24 Slovakian Slovak Republic, 25 Russian Russia, 27 Lithuanian Lithuania, 28 Finnish Finland, 29 German (SW) Switzerland, 30 Estonian Estonia, 31 Latvian Latvia, 32 French (BE) Belgium, 33 French (SW) Switzerland, 34 Italian (SW) Switzerland, 36 French (Int) International French, 40 Bulgarian Bulgaria, 41 Belarusian Belarus, 43 Ukrainian Ukraine, 44 Serbian Serbia, 45 Romanian (RO) Romania, 46 German (Int) International German, 48 Croatian Croatia, 49 Macedonian Macedonia, 50 Slovenian Slovenia, 51 Hebrew Israel, 71 Catalan Catalonia (Spain), 80 Chinese China, 99 English (Int) International English* *4. *The translucent door does not meet EN54-2 access level 1 requirements. To meet EN54-2 requirements with the door fitted the following is also required:* *i. A Zone indicator board to display the zones in alarm (to meet requirements of EN54-2 part 7.3)* *A MCP (without program delay) fitted beside the panel to allow overriding of delays (to meet requirements of EN54-2 part 7.11)*	1199a/14

Certificated Products		LPCB Ref. No.
KFP-AE2 KFP-AE2-S	Intelligent Analogue Addressable Fire and Evacuation Control and Indicating Equipment with User Interface with Fire Brigade Controls - 2 Loop Intelligent Analogue Addressable Fire and Evacuation Control and Indicating Equipment with User Interface with Fire Brigade Controls - 2 Loop Small Cabinet Incorporating the following units: 2010-2F2-MB Main control board KFP-A-UI-E User interface control board 2010-2-PS-40 4A Power Supply Incorporating the following optional modules: KFP-A-ZI-20 (20 Zone) (Large cabinet variant only) KFP-A-ZI-40 (40 Zone) (Large cabinet variant only) KFP-A-ZI-24-S (24 Zone) (Small cabinet variant only) 2010-2-NB Network card KFP-A-LB Loop Board (Large cabinet variant only) 2010-2-232-KIT Interface board for external printer 2010-2-PS-C2 UK mains cable for large cabinet 2010-2-PS-C2-S UK mains cable for small cabinet 2010-2-PIB-8O Peripheral Interface Board 8 outputs (Large cabinet variant only) 2010-2-PIB-8I Peripheral Interface Board 8 inputs (Large cabinet variant only) 2010-2-PIB-8I8O Peripheral Interface Board 8 outputs and 8 inputs (Large cabinet variant only) 2010-2-DACT With ATS7310 (GSM module) 2010-FS-EOL Fault Supervision End of Line unit The above fire panels are certified with the following options with requirements from EN 54-2: 7.8 Output to fire alarm devices 7.9.1 Output to fire alarm routing equipment 7.9.2 Alarm confirmation input from fire alarm routing equipment 7.10 Output to fire protection equipment (Type A, B, and C) 7.11 Delays to outputs 7.12 Dependencies on more than one alarm signal (Type A, B and C) 7.13 Alarm counter 8.4 Total loss of the power supply 8.9 Output to fault warning routing equipment 9.5 Disablement of addressable points 10 Test condition *Notes:* *1. This product approval does not constitute compliance with the fire detection and alarm systems requirements of EN 54-13.* *2. Scope of the approval does not indicate the operation of the network functionality.* *3. Available with the following language kit options:* *01 Dutch (NL) The Netherlands, 02 French (FR) France, 03 English (UK) United Kingdom and Ireland, 04 German (DE) Germany, 05 Norwegian Norway, 06 Swedish Sweden, 07 Danish (DK) Denmark, 08 English (AU) Australia, 09 Spanish Spain, 10 Italian Italy, 11 Dutch (BE) Belgium, 12 Irish Ireland, 13 German (AU) German (Austria), 14 Greek Greece, 15 Arabic Middle East, 17 English (US) United States of America, 18 Polish Poland, 19 Turkish Turkey, 20 Czech Czech Republic, 21 Portuguese Portugal, 22 Hungarian Hungary, 23 Danish (IC) Iceland, 24 Slovakian Slovak Republic, 25 Russian Russia, 27 Lithuanian Lithuania, 28 Finnish Finland, 29 German (SW) Switzerland, 30 Estonian Estonia, 31 Latvian Latvia, 32 French (BE) Belgium, 33 French (SW) Switzerland, 34 Italian (SW) Switzerland, 36 French (Int) International French, 40 Bulgarian Bulgaria, 41 Belarusian Belarus, 43 Ukrainian Ukraine, 44 Serbian Serbia, 45 Romanian (RO) Romania, 46 German (Int) International German, 48 Croatian Croatia, 49 Macedonian Macedonia, 50 Slovenian Slovenia, 51 Hebrew Israel, 71 Catalan Catalonia (Spain), 80 Chinese China, 99 English (Int) International English.*	1199a/14
ZP2-E2 ZP2-E2-S	Intelligent Analogue Addressable Fire and Evacuation Control and Indicating Equipment with User Interface with Fire Brigade Controls - 2 Loop Intelligent Analogue Addressable Fire and Evacuation Control and Indicating Equipment with User Interface with Fire Brigade Controls - 2 Loop Small Cabinet Incorporating the following units: 2010-2F2-MB Main control board ZP2-UI-E User interface control board 2010-2-PS-40 4A Power Supply Incorporating the following optional modules: ZP2-ZI-20 (20 Zone) (Large cabinet variant only) ZP2-ZI-40 (40 Zone) (Large cabinet variant only) ZP2-ZI-24-S (24 Zone) (Small cabinet variant only) 2010-2-NB Network card	1199a/14

Certificated Products			LPCB Ref. No.
		ZP2-LB Loop Board (Large cabinet variant only) 2010-2-232-KIT Interface board for external printer 2010-2-PS-C2 UK mains cable for large cabinet 2010-2-PS-C2-S UK mains cable for small cabinet 2010-2-PIB-8O Peripheral Interface Board 8 outputs (Large cabinet variant only) 2010-2-PIB-8I Peripheral Interface Board 8 inputs (Large cabinet variant only) 2010-2-PIB-8I8O Peripheral Interface Board 8 outputs and 8 inputs (Large cabinet variant only) 2010-2-DACT With ATS7310 (GSM module) 2010-FS-EOL Fault Supervision End of Line unit ZP2-D-E-TP Translucent door option for large cabinet*ZP2-D-E-TP-S Translucent door option for large cabinet* The above fire panels are certified with the following options with requirements from EN 54-2: 7.8 Output to fire alarm devices 7.9.1 Output to fire alarm routing equipment 7.9.2 Alarm confirmation input from fire alarm routing equipment 7.10 Output to fire protection equipment (Type A, B, and C) 7.11 Delays to outputs 7.12 Dependencies on more than one alarm signal (Type A, B and C) 7.13 Alarm counter 8.4 Total loss of the power supply 8.9 Output to fault warning routing equipment 9.5 Disablement of addressable points 10 Test condition *Notes:* *1. This product approval does not constitute compliance with the fire detection and alarm systems requirements of EN 54-13.* *2. Scope of the approval does not indicate the operation of the network functionality* *3. Available with the following language kits:* *01 Dutch (NL) The Netherlands, 02 French (FR) France, 03 English (UK) United Kingdom and Ireland, 04 German (DE) Germany, 05 Norwegian Norway, 06 Swedish Sweden, 07 Danish (DK) Denmark, 08 English (AU) Australia, 09 Spanish Spain, 10 Italian Italy, 11 Dutch (BE) Belgium, 12 Irish Ireland, 13 German (AU) German (Austria), 14 Greek Greece, 15 Arabic Middle East, 17 English (US) United States of America, 18 Polish Poland, 19 Turkish Turkey, 20 Czech Czech Republic, 21 Portuguese Portugal, 22 Hungarian Hungary, 23 Danish (IC) Iceland, 24 Slovakian Slovak Republic, 25 Russian Russia, 27 Lithuanian Lithuania, 28 Finnish Finland, 29 German (SW) Switzerland, 30 Estonian Estonia, 31 Latvian Latvia, 32 French (BE) Belgium, 33 French (SW) Switzerland, 34 Italian (SW) Switzerland, 36 French (Int) International French, 40 Bulgarian Bulgaria, 41 Belarusian Belarus, 43 Ukrainian Ukraine, 44 Serbian Serbia, 45 Romanian (RO) Romania, 46 German (Int) International German, 48 Croatian Croatia, 49 Macedonian Macedonia, 50 Slovenian Slovenia, 51 Hebrew Israel, 71 Catalan Catalonia (Spain), 80 Chinese China, 99 English (Int) International English* *4. *The translucent door does not meet EN54-2 access level 1 requirements. To meet EN54-2 requirements with the door fitted the following is also required:* *i. A Zone indicator board to display the zones in alarm (to meet requirements of EN54-2 part 7.3)* *A MCP (without program delay) fitted beside the panel to allow overriding of delays (to meet requirements of EN54-2 part 7.11).*	
2X-FR 2X-FR-S		Intelligent Analogue Addressable Control and Indicating Equipment Repeater Intelligent Analogue Addressable Control and Indicating Equipment Repeater Small Cabinet Incorporating the following units: 2010-2FR-MB Main control board 2X-UI User interface control board 2010-2-PS-40 4A Power Supply Incorporating the following optional modules: 2X-ZI-20 (20 Zone) (Large cabinet variant only) 2X-ZI-40 (40 Zone) (Large cabinet variant only) 2X-ZI-24-S (24 Zone) (Small cabinet variant only) 2010-2-NB Network card 2X-LB Loop Board (Large cabinet variant only) 2010-2-232-KIT Interface board for external printer 2010-2-PS-C2 UK mains cable for large cabinet 2010-2-PS-C2-S UK mains cable for small cabinet 2010-2-PIB-8O Peripheral Interface Board 8 outputs (Large cabinet variant only) 2010-2-PIB-8I Peripheral Interface Board 8 inputs (Large cabinet variant only) 2010-2-PIB-8I8O Peripheral Interface Board 8 outputs and 8 inputs (Large cabinet	1199a/R01

Certificated Products			LPCB Ref. No.
	variant only) 2010-2-DACT With ATS7310 (GSM module) 2X-D-TP Translucent door option for large cabinet* 2X-D-TP-S Translucent door option for small cabinet* 2010-FS-EOL Fault Supervision End of Line unit *Note:* *Compatible with the following CIE - 2X-F1*		
KFP-A-FR KFP-A-FR-S	Intelligent Analogue Addressable Control and Indicating Equipment Repeater Intelligent Analogue Addressable Control and Indicating Equipment Repeater Small Cabinet Incorporating the following units: 2010-2FR-MB Main control board KFP-A-UI User interface control board 2010-2-PS-40 4A Power Supply Incorporating the following optional modules: KFP-A-ZI-20 (20 Zone) (Large cabinet variant only) KFP-A-ZI-40 (40 Zone) (Large cabinet variant only) KFP-A-ZI-24-S (24 Zone) (Small cabinet variant only) 2010-2-NB Network card KFP-A-LB Loop Board (Large cabinet variant only) 2010-2-232-KIT Interface board for external printer 2010-2-PS-C2 UK mains cable for large cabinet 2010-2-PS-C2-S UK mains cable for small cabinet 2010-2-PIB-8O Peripheral Interface Board 8 outputs (Large cabinet variant only) 2010-2-PIB-8I Peripheral Interface Board 8 inputs (Large cabinet variant only) 2010-2-PIB-8I8O Peripheral Interface Board 8 outputs and 8 inputs (Large cabinet variant only) 2010-2-DACT With ATS7310 (GSM module) 2010-FS-EOL Fault Supervision End of Line unit *Note:* *Compatible with the following CIE - KFP-AF1*	1199a/R01
ZP2-FR ZP2-FR-S	Intelligent Analogue Addressable Control and Indicating Equipment Repeater Intelligent Analogue Addressable Control and Indicating Equipment Repeater Small Cabinet Incorporating the following units: 2010-2FR-MB Main control board ZP2-UI User interface control board 2010-2-PS-40 4A Power Supply Incorporating the following optional modules: ZP2-ZI-20 (20 Zone) (Large cabinet variant only) ZP2-ZI-40 (40 Zone) (Large cabinet variant only) ZP2-ZI-24-S (24 Zone) (Small cabinet variant only) 2010-2-NB Network card ZP2-LB Loop Board (Large cabinet variant only) 2010-2-232-KIT Interface board for external printer 2010-2-PS-C2 UK mains cable for large cabinet 2010-2-PS-C2-S UK mains cable for small cabinet 2010-2-PIB-8O Peripheral Interface Board 8 outputs (Large cabinet variant only) 2010-2-PIB-8I Peripheral Interface Board 8 inputs (Large cabinet variant only) 2010-2-PIB-8I8O Peripheral Interface Board 8 outputs and 8 inputs (Large cabinet variant only) 2010-2-DACT With ATS7310 (GSM module) 2010-FS-EOL Fault Supervision End of Line unit ZP2-D-TP Translucent door option for large cabinet* ZP2-D-TP-S Translucent door option for small cabinet* *Note:* *Compatible with the following CIE - ZP2-F1*	1199a/R01
2X-FR-FB2 2X-FR-FB2-S	Intelligent Analogue Addressable Control and Indicating Equipment Repeater with Fire Brigade Controls Intelligent Analogue Addressable Control and Indicating Equipment Repeater with Fire Brigade Controls Small Cabinet Incorporating the following units: 2010-2FR-MB Main control board 2X-UI-FB2 User interface control board 2010-2-PS-40 4A Power Supply Incorporating the following optional modules: 2X-ZI-20 (20 Zone) (Large cabinet variant only)		1199a/R02

Certificated Products		LPCB Ref. No.
	2X-ZI-40 (40 Zone) (Large cabinet variant only) 2X-ZI-24-S (24 Zone) (Small cabinet variant only) 2010-2-NB Network card 2X-LB Loop Board (Large cabinet variant only) 2010-2-232-KIT Interface board for external printer 2010-2-PS-C2 UK mains cable for large cabinet 2010-2-PS-C2-S UK mains cable for small cabinet 2010-2-PIB Peripheral Interface Board (Germany) (Large cabinet variant only) 2010-2-PIB-8O Peripheral Interface Board 8 outputs (Large cabinet variant only) 2010-2-PIB-8I Peripheral Interface Board 8 inputs (Large cabinet variant only) 2010-2-PIB-8I8O Peripheral Interface Board 8 outputs and 8 inputs (Large cabinet variant only) ADP-N3E-U IFAM Interface card (master) (Large cabinet variant only) ADP-N3S Interface card (slave) (Large cabinet variant only) 2010-2-DACT With ATS7310 (GSM module) 2X-D-FB2-TP Translucent door option for large cabinet* 2X-D-FB2-TP-S Translucent door option for small cabinet* 2010-FS-EOL Fault Supervision End of Line unit *Note:* *Compatible with the following CIE - 2X-F1-FB2*	
KFP-A-FR-FB2 KFP-A-FR-FB2-S	Intelligent Analogue Addressable Control and Indicating Equipment Repeater with Fire Brigade Controls Intelligent Analogue Addressable Control and Indicating Equipment Repeater with Fire Brigade Controls Small Cabinet Incorporating the following units: 2010-2FR-MB Main control board KFP-A-UI-FB2 User interface control board 2010-2-PS-40 4A Power Supply Incorporating the following optional modules: KFP-A-ZI-20 (20 Zone) (Large cabinet variant only) KFP-A-ZI-40 (40 Zone) (Large cabinet variant only) KFP-A-ZI-24-S (24 Zone) (Small cabinet variant only) 2010-2-NB Network card KFP-A-LB Loop Board (Large cabinet variant only) 2010-2-232-KIT Interface board for external printer 2010-2-PS-C2 UK mains cable for large cabinet 2010-2-PS-C2-S UK mains cable for small cabinet 2010-2-PIB Peripheral Interface Board (Germany) (Large cabinet variant only) 2010-2-PIB-8O Peripheral Interface Board 8 outputs (Large cabinet variant only) 2010-2-PIB-8I Peripheral Interface Board 8 inputs (Large cabinet variant only) 2010-2-PIB-8I8O Peripheral Interface Board 8 outputs and 8 inputs (Large cabinet variant only) ADP-N3E-U IFAM Interface card (master) (Large cabinet variant only) ADP-N3S Interface card (slave) (Large cabinet variant only) 2010-2-DACT With ATS7310 (GSM module) 2010-FS-EOL Fault Supervision End of Line unit *Note:* *Compatible with the following CIE - KFP-AF1-FB2*	1199a/R02
ZP2-FR-FB2 ZP2-FR-FB2-S	Intelligent Analogue Addressable Control and Indicating Equipment Repeater with Fire Brigade Controls Intelligent Analogue Addressable Control and Indicating Equipment Repeater with Fire Brigade Controls Small Cabinet Incorporating the following units: 2010-2FR-MB Main control board ZP2-UI-FB2 User interface control board 2010-2-PS-40 4A Power Supply Incorporating the following optional modules: ZP2-ZI-20 (20 Zone) (Large cabinet variant only) ZP2-ZI-40 (40 Zone) (Large cabinet variant only) ZP2-ZI-24-S (24 Zone) (Small cabinet variant only) 2010-2-NB Network card ZP2-LB Loop Board (Large cabinet variant only) 2010-2-232-KIT Interface board for external printer 2010-2-PS-C2 UK mains cable for large cabinet 2010-2-PS-C2-S UK mains cable for small cabinet 2010-2-PIB Peripheral Interface Board (Germany) (Large cabinet variant only) 2010-2-PIB-8O Peripheral Interface Board 8 outputs (Large cabinet variant only) 2010-2-PIB-8I Peripheral Interface Board 8 inputs (Large cabinet variant only) 2010-2-PIB-8I8O Peripheral Interface Board 8 outputs and 8 inputs (Large cabinet	1199a/R02

Certificated Products			LPCB Ref. No.
		variant only) ADP-N3E-U IFAM Interface card (master) (Large cabinet variant only) ADP-N3S Interface card (slave) (Large cabinet variant only) 2010-2-DACT With ATS7310 (GSM module) 2010-FS-EOL Fault Supervision End of Line unit ZP2-D-FB2-TP Translucent door option for large cabinet* ZP2-D-FB2-TP-S Translucent door option for small cabinet* *Note:* *Compatible with the following CIE - ZP2-F1-FB2*	
2X-ER	2X-ER-S	Intelligent Analogue Addressable Fire and Evacuation Control and Indicating Equipment Repeater with Fire Brigade Controls Intelligent Analogue Addressable Fire and Evacuation Control and Indicating Equipment Repeater with Fire Brigade Controls Small Cabinet Incorporating the following units: 2010-2FR-MB Main control board 2X-UI-E User interface control board 2010-2-PS-40 4A Power Supply Incorporating the following optional modules: 2X-ZI-20 (20 Zone) (Large cabinet variant only) 2X-ZI-40 (40 Zone) (Large cabinet variant only) 2X-ZI-24-S (24 Zone) (Small cabinet variant only) 2010-2-NB Network card 2X-LB Loop Board (Large cabinet variant only) 2010-2-232-KIT Interface board for external printer 2010-2-PS-C2 UK mains cable for large cabinet 2010-2-PS-C2-S UK mains cable for small cabinet 2010-2-PIB-8O Peripheral Interface Board 8 outputs (Large cabinet variant only) 2010-2-PIB-8I Peripheral Interface Board 8 inputs (Large cabinet variant only) 2010-2-PIB-8I8O Peripheral Interface Board 8 outputs and 8 inputs (Large cabinet variant only) 2010-2-DACT With ATS7310 (GSM module) 2X-D-E-TP Translucent door option for large cabinet* 2X-D-E-TP-S Translucent door option for small cabinet* 2010-FS-EOL Fault Supervision End of Line unit *Compatible with the following CIE - 2X-E1*	1199a/R04
KFP-A-ER	KFP-A-ER-S	Intelligent Analogue Addressable Fire and Evacuation Control and Indicating Equipment Repeater with Fire Brigade Controls Intelligent Analogue Addressable Fire and Evacuation Control and Indicating Equipment Repeater with Fire Brigade Controls Small Cabinet Incorporating the following units: 2010-2FR-MB Main control board KFP-A-UI-E User interface control board 2010-2-PS-40 4A Power Supply Incorporating the following optional modules: KFP-A-ZI-20 (20 Zone) (Large cabinet variant only) KFP-A-ZI-40 (40 Zone) (Large cabinet variant only) KFP-A-ZI-24-S (24 Zone) (Small cabinet variant only) 2010-2-NB Network card KFP-A-LB Loop Board (Large cabinet variant only) 2010-2-232-KIT Interface board for external printer 2010-2-PS-C2 UK mains cable for large cabinet 2010-2-PS-C2-S UK mains cable for small cabinet 2010-2-PIB-8O Peripheral Interface Board 8 outputs (Large cabinet variant only) 2010-2-PIB-8I Peripheral Interface Board 8 inputs (Large cabinet variant only) 2010-2-PIB-8I8O Peripheral Interface Board 8 outputs and 8 inputs (Large cabinet variant only) 2010-2-DACT With ATS7310 (GSM module) 2010-FS-EOL Fault Supervision End of Line unit *Note:* *Compatible with the following CIE - KFP-AE1*	1199a/R04
ZP2-ER	ZP2-ER-S	Intelligent Analogue Addressable Fire and Evacuation Control and Indicating Equipment Repeater with Fire Brigade Controls Intelligent Analogue Addressable Fire and Evacuation Control and Indicating Equipment Repeater with Fire Brigade Controls Small Cabinet Incorporating the following units: 2010-2FR-MB Main control board ZP2-UI-E User interface control board 2010-2-PS-40 4A Power Supply	1199a/R04

Certificated Products		LPCB Ref. No.
	Incorporating the following optional modules: ZP2-ZI-20 (20 Zone) (Large cabinet variant only) ZP2-ZI-40 (40 Zone) (Large cabinet variant only) ZP2-ZI-24-S (24 Zone) (Small cabinet variant only) 2010-2-NB Network card ZP2-LB Loop Board (Large cabinet variant only) 2010-2-232-KIT Interface board for external printer 2010-2-PS-C2 UK mains cable for large cabinet 2010-2-PS-C2-S UK mains cable for small cabinet 2010-2-PIB-8O Peripheral Interface Board 8 outputs (Large cabinet variant only) 2010-2-PIB-8I Peripheral Interface Board 8 inputs (Large cabinet variant only) 2010-2-PIB-8I8O Peripheral Interface Board 8 outputs and 8 inputs (Large cabinet variant only) 2010-2-DACT With ATS7310 (GSM module) 2010-FS-EOL Fault Supervision End of Line unit ZP2-D-E-TP Translucent door option for large cabinet* ZP2-D-E-TP-S Translucent door option for small cabinet *Note:* *Compatible with the following CIE - ZP2-F1-SC*	
2X-FR-SCFB 2X-FR-SCFB-S	Intelligent Analogue Addressable Control and Indicating Equipment Repeater with SS3654 Fire Brigade Controls with Scandinavian Key Switch Intelligent Analogue Addressable Control and Indicating Equipment Repeater with SS3654 Fire Brigade Controls Small Cabinet with Scandinavian Key Switch Incorporating the following units: 2010-2FR-MB Main control board 2X-UI-SCFB User interface control board 2010-2-PS-40 4A Power Supply Incorporating the following optional modules: 2X-ZI-20 (20 Zone) (Large cabinet variant only) 2X-ZI-40 (40 Zone) (Large cabinet variant only) 2010-2-NB Network card 2X-LB Loop Board (Large cabinet variant only) 2010-2-232-KIT Interface board for external printer 2010-SK Scandinavian key and lock assembly 2010-2-PS-C2 UK mains cable for large cabinet 2010-2-PS-C2-S UK mains cable for small cabinet 2010-2-PIB-8O Peripheral Interface Board 8 outputs (Large cabinet variantonly) 2010-2-PIB-8I Peripheral Interface Board 8 inputs (Large cabinet variant only) 2010-2-PIB-8I8O Peripheral Interface Board 8 outputs and 8 inputs (Large cabinet variant only) 2010-FS-EOL Fault Supervision End of Line unit *Note:* *Compatible with the following CIE - 2X-F1-SCFB*	1199a/R05
KFP-A-FR-SCFB KFP-A-FR-SCFB-S	Intelligent Analogue Addressable Control and Indicating Equipment Repeater with SS3654 Fire Brigade Controls with Scandinavian Key Switch Intelligent Analogue Addressable Control and Indicating Equipment Repeater with SS3654 Fire Brigade Controls Small Cabinet with Scandinavian Key Switch Incorporating the following units: 2010-2FR-MB Main control board KFP-A-UI-SCFB User interface control board 2010-2-PS-40 4A Power Supply Incorporating the following optional modules: KFP-A-ZI-20 (20 Zone) (Large cabinet variant only) KFP-A-ZI-40 (40 Zone) (Large cabinet variant only) 2010-2-NB Network card KFP-A-LB Loop Board (Large cabinet variant only) 2010-2-232-KIT Interface board for external printer 2010-SK Scandinavian key and lock assembly 2010-2-PS-C2 UK mains cable for large cabinet 2010-2-PS-C2-S UK mains cable for small cabinet 2010-2-PIB-8O Peripheral Interface Board 8 outputs (Large cabinet variant only) 2010-2-PIB-8I Peripheral Interface Board 8 inputs (Large cabinet variant only) 2010-2-PIB-8I8O Peripheral Interface Board 8 outputs and 8 inputs (Large cabinet variant only) 2010-2-DACT With ATS7310 (GSM module) 2010-FS-EOL Fault Supervision End of Line unit *Note:* *Compatible with the following CIE - KFP-AF1-SCFB*	1199a/R05

Certificated Products		LPCB Ref. No.
ZP2-FR-SCFB ZP2-FR-SCFB-S	Intelligent Analogue Addressable Control and Indicating Equipment Repeater with SS3654 Fire Brigade Controls with Scandinavian Key Switch Intelligent Analogue Addressable Control and Indicating Equipment Repeater with SS3654 Fire Brigade Controls Small Cabinet with Scandinavian Key Switch Incorporating the following units: 2010-2FR-MB Main control board ZP2-UI-SCFB User interface control board 2010-2-PS-40 4A Power Supply Incorporating the following optional modules: ZP2-ZI-20 (20 Zone) (Large cabinet variant only) ZP2-ZI-40 (40 Zone) (Large cabinet variant only) 2010-2-NB Network card ZP2-LB Loop Board (Large cabinet variant only) 2010-2-232-KIT Interface board for external printer 2010-SK Scandinavian key and lock assembly 2010-2-PS-C2 UK mains cable for large cabinet 2010-2-PS-C2-S UK mains cable for small cabinet 2010-2-PIB-8O Peripheral Interface Board 8 outputs (Large cabinet variant only) 2010-2-PIB-8I Peripheral Interface Board 8 inputs (Large cabinet variant only) 2010-2-PIB-8I8O Peripheral Interface Board 8 outputs and 8 inputs (Large cabinet variant only) 2010-2-DACT With ATS7310 (GSM module)2010-FS-EOL Fault Supervision End of Line unit *Note:* *Compatible with the following CIE - ZP2-F1-SCFB*	1199a/R05
ZPU (Traditional Chinese Language Variant)	1, 2 and 4 loop analogue addressable control and indicating equipment Incorporating as modular units: ZP3-MB2-4L 4 Loop Main board ZP3-MB2-2L 2 Loop Main board ZP3-MB2-1L 1 Loop Main board ZP3-CPU1 CPU board ZP3-DB1 Display board ZP3-ZB50 50 Zone LED board ZP3-CB1 Commissioning key switch board ZP3-PR1 Printer Kit ZP3AB-SCB-D Control bus driver ZP3AB-RL8 Programmable relay output board, 8 way ZP3-AB-MA8 Programmable monitored output board, 8 way ZP3AB-OP24 Programmable transistor output board, 24 way ZP3AB-MIP8 Programmable input board, 8 way ZP3-XI 230Vac Power supply unit Approved with the following options from BS EN54 Part 2: 7.8 Output to fire alarm devices 7.9 Output to fire alarm routing equipment 7.10 Output to fire protection equipment 7.11 Delays to outputs 7.12 Co-incidence detection 7.13 Alarm counter 8.3 Fault signals from points 8.4 Total loss of power 8.9 Output to fault routing equipment 9.5 Disablement of addressable points 10 Test condition 11 Standardised input/output interface	1199c/01

A copy of the certificate, confirming the full scope of approval including notes relating to the superscript references in the above table, may be viewed online by clicking on the product name in the associated entry on www.RedBookLive.com

Certificate No: 1199b-(cl-1) to EN 54-2:1997 + A1:2006 EN 54-4:1997 + A1:2002 + A2:2006

Control and indicating equipment

Certificated Products		LPCB Ref. No.
1X-F2 1X-F2-SC	Conventional Two Zone Control and Indicating Equipment Conventional Two Zone Control and Indicating Equipment with Scandinavian Key Switch	1199b/01

Certificated Products		LPCB Ref. No.
	Incorporating the following units: 1X-F2-MB Main control board 2010-1-RB Optional relay board 2010-1-SB Optional expander I/O board 2010-1-NB Optional Network board 2010-PS-20 using LRS-75-24 2A Power Supply 2010-SK Scandinavian Key Lock and Key (Applicable to SC variant) Certified with the following options with requirements from EN 54-2: 7.8 Output to fire alarm device(s) 7.11 Delays to outputs 8.4 Total loss of the power supply 10 Test condition *Notes:* *1) This product approval does not constitute compliance with the fire detection and alarm systems requirements of EN 54-13.* *2) Scope of approval does not include the operation of the network functionality. International English* *3) Available with the following language kits:* *01 Dutch (NL) The Netherlands, 02 French (FR) France , 03 English (UK) United Kingdom and Ireland, 04 German (DE) Germany, 05 Norwegian Norway, 06 Swedish Sweden, 07 Danish (DK) Denmark, 08 English (AU) Australia, 09 Spanish Spain, 10 Italian Italy, 11 Dutch (BE) Belgium, 12 Irish Ireland, 13 German (AU) German (Austria), 14 Greek Greece, 15 Arabic Middle East, 17 English (US) United States of America, 18 Polish Poland, 19 Turkish Turkey, 20 Czech Czech Republic, 21 Portuguese Portugal, 22 Hungarian Hungary, 23 Danish (IC) Iceland, 24 Slovakian Slovak Republic, 25 Russian Russia, 27 Lithuanian Lithuania, 28 Finnish Finland, 29 German (SW) Switzerland, 30 Estonian Estonia, 31 Latvian Latvia, 32 French (BE) Belgium, 33 French (SW) Switzerland, 34 Italian (SW) Switzerland, 36 French (Int) International French, 40 Bulgarian Bulgaria, 41 Belarusian Belarus, 43 Ukrainian Ukraine, 44 Serbian Serbia, 45 Romanian (RO) Romania, 46 German (Int) International German, 48 Croatian Croatia, 49 Macedonian Macedonia, 50 Slovenian Slovenia, 51 Hebrew Israel, 71 Catalan Catalonia (Spain), 80 Chinese China, 99 English (Int) International English*	
KFP-CF2 KFP-CF2-SC	Conventional Two Zone Control and Indicating Equipment Conventional Two Zone Control and Indicating Equipment with Scandinavian Key Switch	1199b/01
	Incorporating the following units: KFP-CF2-MB Main control board 2010-1-RB Optional relay board 2010-1-SB Optional expander I/O board 2010-1-NB Optional Network board 2010-PS-20 using LRS-75-24 2A Power Supply 2010-SK Scandinavian Key Lock and Key (Applicable to SC variant) Certified with the following options with requirements from EN 54-2: 7.8 Output to fire alarm device(s) 7.11 Delays to outputs 8.4 Total loss of the power supply 10 Test condition *Notes:* *1) This product approval does not constitute compliance with the fire detection and alarm systems requirements of EN 54-13.* *2) Scope of approval does not include the operation of the network functionality.* *3) Available with the following language kits:* *01 Dutch (NL) The Netherlands, 02 French (FR) France , 03 English (UK) United Kingdom and Ireland, 04 German (DE) Germany, 05 Norwegian Norway, 06 Swedish Sweden, 07 Danish (DK) Denmark, 08 English (AU) Australia, 09 Spanish Spain, 10 Italian Italy, 11 Dutch (BE) Belgium, 12 Irish Ireland, 13 German (AU) German (Austria), 14 Greek Greece, 15 Arabic Middle East, 17 English (US) United States of America, 18 Polish Poland, 19 Turkish Turkey, 20 Czech Czech Republic, 21 Portuguese Portugal, 22 Hungarian Hungary, 23 Danish (IC) Iceland, 24 Slovakian Slovak Republic, 25 Russian Russia, 27 Lithuanian Lithuania, 28 Finnish Finland, 29 German (SW) Switzerland, 30 Estonian Estonia, 31 Latvian Latvia, 32 French (BE) Belgium, 33 French (SW) Switzerland, 34 Italian (SW) Switzerland, 36 French (Int) International French, 40 Bulgarian Bulgaria, 41 Belarusian Belarus, 43 Ukrainian Ukraine, 44 Serbian Serbia, 45 Romanian (RO) Romania, 46 German (Int) International German, 48 Croatian Croatia, 49 Macedonian Macedonia, 50 Slovenian Slovenia, 51 Hebrew Israel, 71 Catalan Catalonia (Spain), 80 Chinese China, 99 English (Int) International English*	
ZP1-F2 ZP1-F2-SC	Conventional Two Zone Control and Indicating Equipment Conventional Two Zone Control and Indicating Equipment with Scandinavian Key Switch	1199b/01

Certificated Products		LPCB Ref. No.
	Incorporating the following units: 1X-F2-MB Main control board 2010-1-RB Optional relay board 2010-1-SB Optional expander I/O board 2010-1-NB Optional Network board 2010-PS-20 using LRS-75-24 2A Power Supply 2010-SK Scandinavian Key Lock and Key (Applicable to SC variant) Certified with the following options with requirements from EN 54-2: 7.8 Output to fire alarm device(s) 7.11 Delays to outputs 8.4 Total loss of the power supply 10 Test condition *Notes:* *1) This product approval does not constitute compliance with the fire detection and alarm systems requirements of EN 54-13.* *2) Scope of approval does not include the operation of the network functionality.* *3) Available with the following language kits:* *01 Dutch (NL) The Netherlands, 02 French (FR) France , 03 English (UK) United Kingdom and Ireland, 04 German (DE) Germany, 05 Norwegian Norway, 06 Swedish Sweden, 07 Danish (DK) Denmark, 08 English (AU) Australia, 09 Spanish Spain, 10 Italian Italy, 11 Dutch (BE) Belgium, 12 Irish Ireland, 13 German (AU) German (Austria), 14 Greek Greece, 15 Arabic Middle East, 17 English (US) United States of America, 18 Polish Poland, 19 Turkish Turkey, 20 Czech Czech Republic, 21 Portuguese Portugal, 22 Hungarian Hungary, 23 Danish (IC) Iceland, 24 Slovakian Slovak Republic, 25 Russian Russia, 27 Lithuanian Lithuania, 28 Finnish Finland, 29 German (SW) Switzerland, 30 Estonian Estonia, 31 Latvian Latvia, 32 French (BE) Belgium, 33 French (SW) Switzerland, 34 Italian (SW) Switzerland, 36 French (Int) International French, 40 Bulgarian Bulgaria, 41 Belarusian Belarus, 43 Ukrainian Ukraine, 44 Serbian Serbia, 45 Romanian (RO) Romania, 46 German (Int) International German, 48 Croatian Croatia, 49 Macedonian Macedonia, 50 Slovenian Slovenia, 51 Hebrew Israel, 71 Catalan Catalonia (Spain), 80 Chinese China, 99 English (Int) International English*	
1X-F4 1X-F4-NL 1X-F4-SC	Conventional Four Zone Control and Indicating Equipment Conventional Four Zone Control and Indicating Equipment Conventional Four Zone Control and Indicating Equipment with Scandinavian Key Switch Incorporating the following units: 1X-F4-MB Main control board 2010-1-RB Optional relay board 2010-1-SB Expander I/O board 2010-1-NB Optional Network board 2010-PS-20 using LRS-75-24 2A Power Supply 2010-1-AC Alarm Counter (Applicable to NL variant) 2010-SK Scandinavian Key Lock and Key (Applicable to SC variant) Certified with the following options with requirements from EN 54-2: 7.8 Output to fire alarm device(s) 7.9.1 Output to fire alarm routing equipment 7.9.2 Alarm confirmation input from fire alarm routing equipment 7.11 Delays to outputs 7.13 Alarm counter (Applicable to NL variant only) 8.4 Total loss of the power supply 10 Test condition Also certified with the following options with requirements from EN 54-2 when configured in the NEN operating mode: 7.8 Output to fire alarm device(s) 7.9.1 Output to fire alarm routing equipment 7.9.2 Alarm confirmation input from fire alarm routing equipment 7.10.1 Output to fire protection equipment -Type A 7.11 Delays to outputs - Applicable to fire alarm routing equipment only 7.13 Alarm counter (Applicable to NL variant only) 8.4 Total loss of the power supply 8.9 Output to fault warning routing equipment 10 Test condition *Notes:* *1) This product approval does not constitute compliance with the fire detection and alarm systems requirements of EN 54-13.* *2) Scope of approval does not include the operation of the network functionality.* *3) Available with the following language kits:* *01 Dutch (NL) The Netherlands, 02 French (FR) France , 03 English (UK) United Kingdom and Ireland, 04 German (DE) Germany, 05 Norwegian Norway, 06 Swedish*	1199b/02

Certificated Products		LPCB Ref. No.
	Sweden, 07 Danish (DK) Denmark, 08 English (AU) Australia, 09 Spanish Spain, 10 Italian Italy, 11 Dutch (BE) Belgium, 12 Irish Ireland, 13 German (AU) German (Austria), 14 Greek Greece, 15 Arabic Middle East, 17 English (US) United States of America, 18 Polish Poland, 19 Turkish Turkey, 20 Czech Czech Republic, 21 Portuguese Portugal, 22 Hungarian Hungary, 23 Danish (IC) Iceland, 24 Slovakian Slovak Republic, 25 Russian Russia, 27 Lithuanian Lithuania, 28 Finnish Finland, 29 German (SW) Switzerland, 30 Estonian Estonia, 31 Latvian Latvia, 32 French (BE) Belgium, 33 French (SW) Switzerland, 34 Italian (SW) Switzerland, 36 French (Int) International French, 40 Bulgarian Bulgaria, 41 Belarusian Belarus, 43 Ukrainian Ukraine, 44 Serbian Serbia, 45 Romanian (RO) Romania, 46 German (Int) International German, 48 Croatian Croatia, 49 Macedonian Macedonia, 50 Slovenian Slovenia, 51 Hebrew Israel, 71 Catalan Catalonia (Spain), 80 Chinese China, 99 English (Int) International English	
KFP-CF4 KFP-CF4-NL KFP-CF4-SC	Conventional Four Zone Control and Indicating Equipment Conventional Four Zone Control and Indicating Equipment Conventional Four Zone Control and Indicating Equipment with Scandinavian Key Switch Incorporating the following units: KFP-CF4-MB Main control board 2010-1-RB Optional relay board 2010-1-SB Expander I/O board 2010-1-NB Optional Network board 2010-PS-20 using LRS-75-24 2A Power Supply 2010-1-AC Alarm Counter (Applicable to NL variant) 2010-SK Scandinavian Key Lock and Key (Applicable to SC variant) Certified with the following options with requirements from EN 54-2: 7.8 Output to fire alarm device(s) 7.9.1 Output to fire alarm routing equipment 7.9.2 Alarm confirmation input from fire alarm routing equipment 7.11 Delays to outputs 7.13 Alarm counter (Applicable to NL variant only) 8.4 Total loss of the power supply 10 Test condition Also certified with the following options with requirements from EN 54-2 when configured in the NEN operating mode: 7.8 Output to fire alarm device(s) 7.9.1 Output to fire alarm routing equipment 7.9.2 Alarm confirmation input from fire alarm routing equipment 7.10.1 Output to fire protection equipment -Type A 7.11 Delays to outputs - Applicable to fire alarm routing equipment only 7.13 Alarm counter (Applicable to NL variant only) 8.4 Total loss of the power supply 8.9 Output to fault warning routing equipment 10 Test condition *Notes:* *1) This product approval does not constitute compliance with the fire detection and alarm systems requirements of EN 54-13.* *2) Scope of approval does not include the operation of the network functionality.* *3) Available with the following language kits:* *01 Dutch (NL) The Netherlands, 02 French (FR) France , 03 English (UK) United Kingdom and Ireland, 04 German (DE) Germany, 05 Norwegian Norway, 06 Swedish Sweden, 07 Danish (DK) Denmark, 08 English (AU) Australia, 09 Spanish Spain, 10 Italian Italy, 11 Dutch (BE) Belgium, 12 Irish Ireland, 13 German (AU) German (Austria), 14 Greek Greece, 15 Arabic Middle East, 17 English (US) United States of America, 18 Polish Poland, 19 Turkish Turkey, 20 Czech Czech Republic, 21 Portuguese Portugal, 22 Hungarian Hungary, 23 Danish (IC) Iceland, 24 Slovakian Slovak Republic, 25 Russian Russia, 27 Lithuanian Lithuania, 28 Finnish Finland, 29 German (SW) Switzerland, 30 Estonian Estonia, 31 Latvian Latvia, 32 French (BE) Belgium, 33 French (SW) Switzerland, 34 Italian (SW) Switzerland, 36 French (Int) International French, 40 Bulgarian Bulgaria, 41 Belarusian Belarus, 43 Ukrainian Ukraine, 44 Serbian Serbia, 45 Romanian (RO) Romania, 46 German (Int) International German, 48 Croatian Croatia, 49 Macedonian Macedonia, 50 Slovenian Slovenia, 51 Hebrew Israel, 71 Catalan Catalonia (Spain), 80 Chinese China, 99 English (Int) International English*	1199b/02
1X-F8 1X-F8-NL 1X-F8-SC	Conventional Eight Zone Control and Indicating Equipment Conventional Eight Zone Control and Indicating Equipment Conventional Eight Zone Control and Indicating Equipment with Scandinavian Key Switch Incorporating the following units: 1X-F8-MB Main control board 2010-1-RB Optional relay board	1199b/03

Certificated Products		LPCB Ref. No.
	2010-1-SB Expander I/O board 2010-1-NB Optional Network board 2010-PS-40 using LRS-100-24 4A Power Supply 2010-1-AC Alarm Counter (Applicable to NL variant) 2010-SK Scandinavian Key Lock and Key (Applicable to SC variant) Certified with the following options with requirements from EN 54-2: 7.8 Output to fire alarm device(s) 7.9.1 Output to fire alarm routing equipment 7.9.2 Alarm confirmation input from fire alarm routing equipment 7.11 Delays to outputs 7.13 Alarm counter (Applicable to NL variant only) 8.4 Total loss of the power supply 10 Test condition Also certified with the following options with requirements from EN 54-2 when configured in the NEN operating mode: 7.8 Output to fire alarm device(s) 7.9.1 Output to fire alarm routing equipment 7.9.2 Alarm confirmation input from fire alarm routing equipment 7.10.1 Output to fire protection equipment -Type A 7.11 Delays to outputs - Applicable to fire alarm routing equipment only 7.13 Alarm counter (Applicable to NL variant only) 8.4 Total loss of the power supply 8.9 Output to fault warning routing equipment 10 Test condition *Notes:* *1) This product approval does not constitute compliance with the fire detection and alarm systems requirements of EN 54-13.* *2) Scope of approval does not include the operation of the network functionality.* *3) Available with the following language kits:* *01 Dutch (NL) The Netherlands, 02 French (FR) France , 03 English (UK) United Kingdom and Ireland, 04 German (DE) Germany, 05 Norwegian Norway, 06 Swedish Sweden, 07 Danish (DK) Denmark, 08 English (AU) Australia, 09 Spanish Spain, 10 Italian Italy, 11 Dutch (BE) Belgium, 12 Irish Ireland, 13 German (AU) German (Austria), 14 Greek Greece, 15 Arabic Middle East, 17 English (US) United States of America, 18 Polish Poland, 19 Turkish Turkey, 20 Czech Czech Republic, 21 Portuguese Portugal, 22 Hungarian Hungary, 23 Danish (IC) Iceland, 24 Slovakian Slovak Republic, 25 Russian Russia, 27 Lithuanian Lithuania, 28 Finnish Finland, 29 German (SW) Switzerland, 30 Estonian Estonia, 31 Latvian Latvia, 32 French (BE) Belgium, 33 French (SW) Switzerland, 34 Italian (SW) Switzerland, 36 French (Int) International French, 40 Bulgarian Bulgaria, 41 Belarusian Belarus, 43 Ukrainian Ukraine, 44 Serbian Serbia, 45 Romanian (RO) Romania, 46 German (Int) International German, 48 Croatian Croatia, 49 Macedonian Macedonia, 50 Slovenian Slovenia, 51 Hebrew Israel, 71 Catalan Catalonia (Spain), 80 Chinese China, 99 English (Int) International English*	
KFP-CF8 KFP-CF8-NL KFP-CF8-SC	Conventional Eight Zone Control and Indicating Equipment Conventional Eight Zone Control and Indicating Equipment Conventional Eight Zone Control and Indicating Equipment with Scandinavian Key Switch Incorporating the following units: KFP-CF8-MB Main control board 2010-1-RB Optional relay board 2010-1-SB Expander I/O board 2010-1-NB Optional Network board 2010-PS-40 using LRS-100-24 4A Power Supply 2010-1-AC Alarm Counter (Applicable to NL variant) 2010-SK Scandinavian Key Lock and Key (Applicable to SC variant) Certified with the following options with requirements from EN 54-2: 7.8 Output to fire alarm device(s) 7.9.1 Output to fire alarm routing equipment 7.9.2 Alarm confirmation input from fire alarm routing equipment 7.11 Delays to outputs 7.13 Alarm counter (Applicable to NL variant only) 8.4 Total loss of the power supply 10 Test condition Also certified with the following options with requirements from EN 54-2 when configured in the NEN operating mode: 7.8 Output to fire alarm device(s)	1199b/03

Certificated Products		LPCB Ref. No.
	7.9.1 Output to fire alarm routing equipment 7.9.2 Alarm confirmation input from fire alarm routing equipment 7.10.1 Output to fire protection equipment -Type A 7.11 Delays to outputs - Applicable to fire alarm routing equipment only 7.13 Alarm counter (Applicable to NL variant only) 8.4 Total loss of the power supply 8.9 Output to fault warning routing equipment 10 Test condition *Notes:* *1) This product approval does not constitute compliance with the fire detection and alarm systems requirements of EN 54-13.* *2) Scope of approval does not include the operation of the network functionality.* *3) Available with the following language kits:* *01 Dutch (NL) The Netherlands, 02 French (FR) France , 03 English (UK) United Kingdom and Ireland, 04 German (DE) Germany, 05 Norwegian Norway, 06 Swedish Sweden, 07 Danish (DK) Denmark, 08 English (AU) Australia, 09 Spanish Spain, 10 Italian Italy, 11 Dutch (BE) Belgium, 12 Irish Ireland, 13 German (AU) German (Austria), 14 Greek Greece, 15 Arabic Middle East, 17 English (US) United States of America, 18 Polish Poland, 19 Turkish Turkey, 20 Czech Czech Republic, 21 Portuguese Portugal, 22 Hungarian Hungary, 23 Danish (IC) Iceland, 24 Slovakian Slovak Republic, 25 Russian Russia, 27 Lithuanian Lithuania, 28 Finnish Finland, 29 German (SW) Switzerland, 30 Estonian Estonia, 31 Latvian Latvia, 32 French (BE) Belgium, 33 French (SW) Switzerland, 34 Italian (SW) Switzerland, 36 French (Int) International French, 40 Bulgarian Bulgaria, 41 Belarusian Belarus, 43 Ukrainian Ukraine, 44 Serbian Serbia, 45 Romanian (RO) Romania, 46 German (Int) International German, 48 Croatian Croatia, 49 Macedonian Macedonia, 50 Slovenian Slovenia, 51 Hebrew Israel, 71 Catalan Catalonia (Spain), 80 Chinese China, 99 English (Int) International English*	
ZP1-F8 ZP1-F8-NL ZP1-F8-SC	Conventional Four Zone Control and Indicating Equipment Conventional Four Zone Control and Indicating Equipment Conventional Four Zone Control and Indicating Equipment with Scandinavian Key Switch Incorporating the following units: 1X-F8-MB Main control board 2010-1-RB Optional relay board 2010-1-SB Expander I/O board 2010-1-NB Optional Network board 2010-PS-40 using LRS-100-24 4A Power Supply 2010-1-AC Alarm Counter (Applicable to NL variant) 2010-SK Scandinavian Key Lock and Key (Applicable to SC variant) Certified with the following options with requirements from EN 54-2: 7.8 Output to fire alarm device(s) 7.9.1 Output to fire alarm routing equipment 7.9.2 Alarm confirmation input from fire alarm routing equipment 7.10.1 Output to fire protection equipment -Type A 7.11 Delays to outputs - Applicable to fire alarm routing equipment only 7.13 Alarm counter (Applicable to NL variant only) 8.4 Total loss of the power supply 8.9 Output to fault warning routing equipment 10 Test condition Also certified with the following options with requirements from EN 54-2 when configured in the NEN operating mode: 7.8 Output to fire alarm device(s) 7.9.1 Output to fire alarm routing equipment 7.9.2 Alarm confirmation input from fire alarm routing equipment 7.10.1 Output to fire protection equipment -Type A 7.11 Delays to outputs - Applicable to fire alarm routing equipment only 7.13 Alarm counter (Applicable to NL variant only) 8.4 Total loss of the power supply 8.9 Output to fault warning routing equipment 10 Test condition *Notes:* *1) This product approval does not constitute compliance with the fire detection and alarm systems requirements of EN 54-13.* *2) Scope of approval does not include the operation of the network functionality.* *3) Available with the following language kits:* *01 Dutch (NL) The Netherlands, 02 French (FR) France , 03 English (UK) United Kingdom and Ireland, 04 German (DE) Germany, 05 Norwegian Norway, 06 Swedish Sweden, 07 Danish (DK) Denmark, 08 English (AU) Australia, 09 Spanish Spain, 10 Italian Italy, 11 Dutch (BE) Belgium, 12 Irish Ireland, 13 German (AU) German (Austria),*	1199b/03

Certificated Products		LPCB Ref. No.
	14 Greek Greece, 15 Arabic Middle East, 17 English (US) United States of America, 18 Polish Poland, 19 Turkish Turkey, 20 Czech Czech Republic, 21 Portuguese Portugal, 22 Hungarian Hungary, 23 Danish (IC) Iceland, 24 Slovakian Slovak Republic, 25 Russian Russia, 27 Lithuanian Lithuania, 28 Finnish Finland, 29 German (SW) Switzerland, 30 Estonian Estonia, 31 Latvian Latvia, 32 French (BE) Belgium, 33 French (SW) Switzerland, 34 Italian (SW) Switzerland, 36 French (Int) International French, 40 Bulgarian Bulgaria, 41 Belarusian Belarus, 43 Ukrainian Ukraine, 44 Serbian Serbia, 45 Romanian (RO) Romania, 46 German (Int) International German, 48 Croatian Croatia, 49 Macedonian Macedonia, 50 Slovenian Slovenia, 51 Hebrew Israel, 71 Catalan Catalonia (Spain), 80 Chinese China, 99 English (Int) International English	
1X-E4 1X-E4-NL	Conventional Four Zone Control and Indicating Equipment Conventional Four Zone Control and Indicating Equipment Incorporating the following units: 1X-E4-MB Main control board 2010-1-RB Optional relay board 2010-1-SB Expander I/O board 2010-1-NB Optional Network board 2010-PS-40 using LRS-100-24 4A Power Supply 2010-1-AC Alarm Counter (Applicable to NL variant) Certified with the following options with requirements from EN 54-2: 7.8 Output to fire alarm device(s) 7.9.1 Output to fire alarm routing equipment 7.9.2 Alarm confirmation input from fire alarm routing equipment 7.11 Delays to outputs 7.13 Alarm counter (Applicable to NL variant only) 8.4 Total loss of the power supply 10 Test condition Also certified with the following options with requirements from EN 54-2 when configured in the NEN operating mode: 7.8 Output to fire alarm device(s) 7.9.1 Output to fire alarm routing equipment 7.9.2 Alarm confirmation input from fire alarm routing equipment 7.11 Delays to outputs - Applicable to fire alarm routing equipment only 7.13 Alarm counter (Applicable to NL variant only) 8.4 Total loss of the power supply 8.9 Output to fault warning routing equipment 10 Test condition *Notes:* *1) This product approval does not constitute compliance with the fire detection and alarm systems requirements of EN 54-13.* *2) Scope of approval does not include the operation of the network functionality.* *3) Available with the following language kits:* *01 Dutch (NL) The Netherlands, 02 French (FR) France , 03 English (UK) United Kingdom and Ireland, 04 German (DE) Germany, 05 Norwegian Norway, 06 Swedish Sweden, 07 Danish (DK) Denmark, 08 English (AU) Australia, 09 Spanish Spain, 10 Italian Italy, 11 Dutch (BE) Belgium, 12 Irish Ireland, 13 German (AU) German (Austria), 14 Greek Greece, 15 Arabic Middle East, 17 English (US) United States of America, 18 Polish Poland, 19 Turkish Turkey, 20 Czech Czech Republic, 21 Portuguese Portugal, 22 Hungarian Hungary, 23 Danish (IC) Iceland, 24 Slovakian Slovak Republic, 25 Russian Russia, 27 Lithuanian Lithuania, 28 Finnish Finland, 29 German (SW) Switzerland, 30 Estonian Estonia, 31 Latvian Latvia, 32 French (BE) Belgium, 33 French (SW) Switzerland, 34 Italian (SW) Switzerland, 36 French (Int) International French, 40 Bulgarian Bulgaria, 41 Belarusian Belarus, 43 Ukrainian Ukraine, 44 Serbian Serbia, 45 Romanian (RO) Romania, 46 German (Int) International German, 48 Croatian Croatia, 49 Macedonian Macedonia, 50 Slovenian Slovenia, 51 Hebrew Israel, 71 Catalan Catalonia (Spain), 80 Chinese China, 99 English (Int) International English*	1199b/04
ZP1-F4 ZP1-F4-NL ZP1-F4-SC	Conventional Four Zone Control and Indicating Equipment Conventional Four Zone Control and Indicating Equipment Conventional Four Zone Control and Indicating Equipment with Scandinavian Key Switch Incorporating the following units: 1X-F4-MB Main control board 2010-1-RB Optional relay board 2010-1-SB Expander I/O board 2010-1-NB Optional Network board 2010-PS-20 using LRS-75-24 2A Power Supply 2010-1-AC Alarm Counter (Applicable to NL variant) 2010-SK Scandinavian Key Lock and Key (Applicable to SC variant)	1199c/02

Certificated Products		LPCB Ref. No.
	Certified with the following options with requirements from EN 54-2: 7.8 Output to fire alarm device(s) 7.9.1 Output to fire alarm routing equipment 7.9.2 Alarm confirmation input from fire alarm routing equipment 7.11 Delays to outputs 7.13 Alarm counter (Applicable to NL variant only) 8.4 Total loss of the power supply 10 Test condition Also certified with the following options with requirements from EN 54-2 when configured in the NEN operating mode: 7.8 Output to fire alarm device(s) 7.9.1 Output to fire alarm routing equipment 7.9.2 Alarm confirmation input from fire alarm routing equipment 7.10.1 Output to fire protection equipment -Type A 7.11 Delays to outputs - Applicable to fire alarm routing equipment only 7.13 Alarm counter (Applicable to NL variant only) 8.4 Total loss of the power supply 8.9 Output to fault warning routing equipment 10 Test condition *Notes:* *1) This product approval does not constitute compliance with the fire detection and alarm systems requirements of EN 54-13.* *2) Scope of approval does not include the operation of the network functionality.* *3) Available with the following language kits:* *01 Dutch (NL) The Netherlands, 02 French (FR) France , 03 English (UK) United Kingdom and Ireland, 04 German (DE) Germany, 05 Norwegian Norway, 06 Swedish Sweden, 07 Danish (DK) Denmark, 08 English (AU) Australia, 09 Spanish Spain, 10 Italian Italy, 11 Dutch (BE) Belgium, 12 Irish Ireland, 13 German (AU) German (Austria), 14 Greek Greece, 15 Arabic Middle East, 17 English (US) United States of America, 18 Polish Poland, 19 Turkish Turkey, 20 Czech Czech Republic, 21 Portuguese Portugal, 22 Hungarian Hungary, 23 Danish (IC) Iceland, 24 Slovakian Slovak Republic, 25 Russian Russia, 27 Lithuanian Lithuania, 28 Finnish Finland, 29 German (SW) Switzerland, 30 Estonian Estonia, 31 Latvian Latvia, 32 French (BE) Belgium, 33 French (SW) Switzerland, 34 Italian (SW) Switzerland, 36 French (Int) International French, 40 Bulgarian Bulgaria, 41 Belarusian Belarus, 43 Ukrainian Ukraine, 44 Serbian Serbia, 45 Romanian (RO) Romania, 46 German (Int) International German, 48 Croatian Croatia, 49 Macedonian Macedonia, 50 Slovenian Slovenia, 51 Hebrew Israel, 71 Catalan Catalonia (Spain), 80 Chinese China, 99 English (Int) International English*	

ssss
A copy of the certificate, confirming the full scope of approval including notes relating to the superscript references in the above table, may be viewed online by clicking on the product name in the associated entry on www.RedBookLive.com

Certificate No: 1199c-(cl-1) to EN 54-4:1998

Control and indicating equipment

Certificated Products		LPCB Ref. No.
ZP3	1, 2 and 4 loop analogue addressable control and indicating equipment Incorporating as modular units: ZP3-MB2-4L 4 Loop Main board ZP3-MB2-2L 2 Loop Main board ZP3-MB2-1L 1 Loop Main board ZP3-CPU1 CPU board ZP3-DB1 Display board ZP3-ZB50 50 Zone LED board ZP3-CB1 Commissioning key switch board ZP3-PR1 Printer Kit ZP3AB-SCB-D Control bus driver ZP3AB-RL8 Programmable relay output board, 8 way ZP3-AB-MA8 Programmable monitored output board, 8 way ZP3AB-OP24 Programmable transistor output board, 24 way ZP3AB-MIP8 Programmable input board, 8 way ZP3-XI 230Vac Power supply unit Approved with the following options from BS EN54 Part 2: 7.8 Output to fire alarm devices 7.9 Output to fire alarm routing equipment	1199c/01

Certificated Products		LPCB Ref. No.
	7.10 Output to fire protection equipment 7.11 Delays to outputs 7.12 Co-incidence detection 7.13 Alarm counter 8.3 Fault signals from points 8.4 Total loss of power 8.9 Output to fault routing equipment 9.5 Disablement of addressable points 10 Test condition 11 Standardised input/output interface	

A copy of the certificate, confirming the full scope of approval including notes relating to the superscript references in the above table, may be viewed online by clicking on the product name in the associated entry on www.RedBookLive.com

Ceasefire Industries Private Ltd

E6, Upsidc Industrial Area,, Selaqui, Dehradun, Uttarakhand 24001, India
Tel: +911204223473
E-mail: amit@ceasefire.in

Certificate No: 810a-(cl-5) to EN 54-2: 1997 + A1: 2006 & EN 54-4: 1997 + A1: 2002 + A2: 2006

Control and indicating equipment

Certificated Products		LPCB Ref. No.
Pro-Sense TI-002306, TI-002307	Pro-Sense 2 and 4 Zone Conventional Control and Indicating Equipment TI-002306 Incorporating as modular units: TPC A01-E2 2 zone main PCB applicable on 2 zone CIE only TPC A02 LED display PCB PSM1.5-24 Power supply 1.5A rated Certified with the following options with requirements from EN 54 Part 2: 7.8 Output to fire alarm devices 7.12.1 Dependency on more than one alarm signal type A 10 Test condition TI-002307 Incorporating as modular units: TPC A01-E4 4 zone main PCB applicable on 4 zone CIE only TPC A02 LED display PCB PSM1.5-24 Power supply 1.5A rated Certified with the following options with requirements from EN 54 Part 2: 7.8 Output to fire alarm devices 7.12.1 Dependency on more than one alarm signal type A 10 Test condition *Note:* *1. This product approval does not constitute compliance with the fire detection and alarm systems requirements of EN 54-13.*	810a/03
Pro-Sense TI-002310, TI-002311, TI-002312	16, 24 and 32 Zone Conventional Control and Indicating Equipment TI-002310 16 Zone Conventional Control Panel Incorporating as modular units: TPCA10 32 Zone LED display PCB TPCA11-16 16 Zone Main PCB TPCA12 Power supply PCB and as optional modules TPCR01 Relay PCB TPCR03 Isolate Switch PCB TPCA09 Sounder Card PCB TPCA08 Output Card PCB TPCA05 XLEN Communications Board TI-002311 24 Zone Conventional Control Panel	810a/08

Certificated Products		LPCB Ref. No.
	Incorporating as modular units: TPCA10 32 Zone LED display PCB TPCA11-24 24 Zone Main PCB TPCA12 Power supply PCB and as optional modules TPCR01 Relay PCB TPCR03 Isolate Switch PCB TPCA09 Sounder Card PCB TPCA08 Output Card PCB TPCA05 XLEN Communications Board TI-002312 32 Zone Conventional Control Panel Incorporating as modular units: TPCA10 32 Zone LED display PCB TPCA11-32 32 Zone Main PCB TPCA12 Power supply PCB and as optional modules TPCR01 Relay PCB TPCR03 Isolate Switch PCB TPCA09 Sounder Card PCB TPCA08 Output Card PCB TPCA05 XLEN Communications Board Certified with the following options with requirements from EN 54 Part 2: 7.8 Output to fire alarm devices 7.9.1 Output to fire alarm routing equipment 7.11 Delays to outputs 7.12.1 Dependency on more than one alarm signal type A 7.12.2 Dependency on more than one alarm signal type B 7.12.3 Dependency on more than one alarm signal type C 10 Test condition *Note:* *1. This product approval does not constitute compliance with the fire detection and alarm systems requirements of EN 54-13.*	
Pro-Sense TI-002308	8 Zone Conventional Control and Indicating Equipment Incorporating as modular units: TPCA01-X4 XLEN 4 Zone Main PCB TPCA03 XLEN Display Board TPCA04-H XLEN High Spec 4 Zone Extension Board PSM3.0-24 Power Supply Incorporating as optional module: TPCA05 XLEN Communications Board Certified with the following options with requirements from EN 54 Part 2: 7.8 Output to fire alarm devices 7.11 Delays to outputs 7.12.1 Dependency on more than one alarm signal type A 7.12.2 Dependency on more than one alarm signal type B 7.12.3 Dependency on more than one alarm signal type C 10 Test condition *Note:* *This product approval does not constitute compliance with the fire detection and alarm systems requirements of EN 54-13.*	810a/10
Pro-Sense TI-002309	12 Zone Conventional Control and Indicating Equipment Incorporating as modular units: TPCA01-X4 XLEN 4 Zone Main PCB TPCA03 XLEN Display Board TPCA04-S XLEN Standard 4 Zone Extension Board TPCA04-H XLEN High Spec 4 Zone Extension Board PSM3.0-24 Power Supply Incorporating as optional module: TPCA05 XLEN Communications Board	810a/11

Certificated Products		LPCB Ref. No.
	Certified with the following options with requirements from EN 54 Part 2: 7.8 Output to fire alarm devices 7.11 Delays to outputs 7.12.1 Dependency on more than one alarm signal type A 7.12.2 Dependency on more than one alarm signal type B 7.12.3 Dependency on more than one alarm signal type C 10 Test condition *Note:* *This product approval does not constitute compliance with the fire detection and alarm systems requirements of EN 54-13.*	

A copy of the certificate, confirming the full scope of approval including notes relating to the superscript references in the above table, may be viewed online by clicking on the product name in the associated entry on www.RedBookLive.com

---

Channel Safety Systems Ltd

9 Petersfield Business Park, Petersfield GU32 3QA, United Kingdom
Tel: 08458847000 • Fax: 08458846000
E-mail: sales@channelsafety.co.uk • Website: www.chanelsafety.co.uk

Certificate No: 176b to EN 54-2: 1997 + A1: 2006 and EN 54-4: 1997 + A1: 2002 + A2: 2006

Certificated Products		LPCB Ref. No.
CFP702-4/CHAN	Two zone conventional control and indicating equipment Incorporating the units: RPF0702005 Power supply PCB SPF0724851 2 Zone main control board Certified with the following options with requirements from EN 54-2: 1997 7.8 Output to fire alarm devices(s) 7.11 Delays to outputs 10 Test condition	176b/07
CFP704-4/CHAN	Four zone conventional control and indicating equipment Incorporating the units: RPF0702005 Power supply PCB SPF0724853 4 Zone main control board Certified with the following options with requirements from EN 54-2: 1997 7.8 Output to fire alarm devices(s) 7.11 Delays to outputs 10 Test condition	176b/08
CFP708-4/CHAN	Eight zone conventional control and indicating equipment Incorporating the units: RPF0702005 Power supply PCB SPF0724855 8 Zone main control board Certified with the following options with requirements from EN 54-2: 1997 7.8 Output to fire alarm devices(s) 7.11 Delays to outputs 10 Test condition	176b/09

Comelit Group S.p.a

5 Via Don Arrigoni, Rovetta 24020, Italy
Tel: +39 0346 750011
E-mail: luca.pedretti@comelit.it

Certificate No: 1139h-(cl-1) to EN54-2: 1997 + A1: 2006 & EN54-4: 1997 + A1: 2002 + A2: 2006

Control and indicating equipment

Certificated Products		LPCB Ref. No.
ATENA	ATENA - Intelligent Analogue Addressable Interactive Fire Alarm Control Panel, metal housing ATENA P - Intelligent Analogue Addressable Interactive Fire Alarm Control Panel, plastic housing *Incorporating the following modular units:* *uPC Board* *Module uPC* *LCD Board* *Module LCD* *LED Board* *Module Light Panel includes boards uPC, LCD and LED* *Outputs Board* *Module Outputs* *Relay Board* *Module 4 Relay* *PSU Board* *Module Power supply* *Redundant Network Board* *Module Redundant Network* *Loop Comelit Board* *Loop Expander Comelit* *Certified with the following options with requirements from EN54-2:* *7.8 Output to fire alarm devices (option with requirements)* *7.9 Control of fire alarm routing equipment (options with requirements)* *7.9.1 Output to fire alarm routing equipment (option with requirements)* *7.10 Outputs to fire protection equipment (options with requirements)* *7.10.1 Output type A (option with requirement)* *7.11 Delays to outputs (option with requirements)* *7.12 Dependencies on more than one alarm signal (option with requirements)* *7.12.1 Type A dependency (option with requirement)* *8.3 Fault signals from points (option with requirements)* *9.5 Disablement of addressable point (option with requirements)* *10 Test condition (option with requirements)* *Notes:* *1. The scope of the approval does not include the operation of the network functionality* *2. The product approval does not constitute compliance with the fire detection and alarm system requirements of EN54-13.*	1139h/01
ATENA Repeater	ATENA Repeater - Intelligent Analogue Addressable Interactive Fire Alarm Control Panel - Repeater, metal housing ATENA Repeater P - Intelligent Analogue Addressable Interactive Fire Alarm Control Panel - Repeater, plastic housing Approved for use with the ATENA Intelligent Analogue Addressable Interactive Fire Alarm Control Panel *Incorporating the following modules:* *uPC Board* *Module uPC* *LCD Board* *Module LCD* *LED Board* *Module Light Panel includes boards uPC, LCD and LED* *PSU Board* *Module Power supply* *Redundant Network Board* *Module Redundant Network*	1139h/R01

A copy of the certificate, confirming the full scope of approval including notes relating to the superscript references in the above table, may be viewed online by clicking on the product name in the associated entry on www.RedBookLive.com

Computionics Limited (Trading as C-Tec)

Challenge Way, Martland Park, Wigan, Lancashire WD5 0LD, United Kingdom
Tel: +44 (0)1942 322744/42444 • Fax: +44 (0)1942 829867
E-mail: sales@C-tec.co.uk • Website: www.c-tec.co.uk

Certificate No: 176b to EN 54-2: 1997 + A1: 2006 and EN 54-4: 1997 + A1: 2002 + A2: 2006

Certificated Products		LPCB Ref. No.
XFP502/H	2 loop, 32 Zone Analogue Addressable Control and Indicating Equipment using Hochiki Protocol, Metal Housing Incorporating the following units: SPF0501021 Switch mode power supply board SPF0501202 XFP Hochiki 2 loop, Mainboard SPF0501199 Display board "keypad display" Optional language variants; XFP502/H/NL Dutch language variant Certified with the following options with requirements from EN 54-2: 1997 7.8 Output to fire alarm device(s) 7.11 Delays to the actioning of outputs fire alarm devices and fire routing equipment 7.12.1 Dependencies on more than one alarm signal - Type A 7.12.2 Dependencies on more than one alarm signal - Type B 7.12.3 Dependencies on more than one alarm signal - Type C 7.13 Alarm counter 8.3 Fault signals from points 9.5 Disablement of each address point 10 Test condition *Notes:* *1. Scope of approval does not include the operation of the network functionality .* 2. This product approval does not constitute compliance with the fire detection and alarm system requirements of EN54-13.	176b/01
XFP502/X	2 Loop, 32 Zone Analogue Addressable Control and Indicating Equipment using Apollo Protocol, Metal Housing Incorporating the follwing units: SPF0501425 XFP Apollo 2 loop, Mainboard SPF0501199 Display board (keypad display) SPF0501021 Switch mode power supply board Optional language variants; XFP502/X/ES Spanish language variant XFP502/X/FR French language variant XFP502/X/PORT Portuguese language variant XFP502/X/NL Dutch language variant XFP502/X/CZ Czech language variant Certified with the following options with requirements from EN54-2: 1997 7.8 Output to fire alarm device(s) 7.11 Delays to the actioning of outputs fire alarm devices and fire routing equipment 7.12.1 Dependencies on more than one alarm signal - Type A 7.12.2 Dependencies on more than one alarm signal - Type B 7.12.3 Dependencies on more than one alarm signal - Type C 7.13 Alarm counter 8.3 Fault signals from points 9.5 Disablement of each address point 10 Test condition *Notes:* *1. Scope of approval does not include the operation of the network functionality.* *2. This product approval does not constitute compliance with the fire detection and alarm system requirements of EN54-13.*	176b/02
XFP501/H	1 Loop, 32 Zone Analogue Addressable Control and Indicating Equipment using Hochiki Protocol, Metal Housing Incorporating the following units: SPF0501435 XFP Hochiki 1 loop, Mainboard SPF0501199 Display board "Keypad display" SPF0501021 Switch mode power supply board Optional language variants; XFP501/H/NL Dutch language variant Certified with the following options with requirements from EN54-2: 1997 7.8 Output to fire alarm device(s)	176b/03

Certificated Products		LPCB Ref. No.
	7.11 Delays to the actioning of outputs fire alarm devices and fire routing equipment 7.12.1 Dependencies on more than one alarm signal - Type A 7.12.2 Dependencies on more than one alarm signal - Type B 7.12.3 Dependencies on more than one alarm signal - Type C 7.13 Alarm counter 8.3 Fault signals from points 9.5 Disablement of each address point 10 Test condition *Notes:* *1. Scope of approval does not include the operation of the network functionality.* *2. This product approval does not constitute compliance with the fire detection and alarm system requirements of EN54-13.*	
XFP501/X	1 Loop, 32 Zone Analogue Addressable Control and Indicating Equipment using Apollo Protocol, Metal Housing Incorporating the following units: SPF0501424 XFP Apollo 1 loop, Mainboard SPF0501199 Display board "keypad display" SPF0501021 Switch mode power supply board Optional language variants; XFP501/X/ES Spanish language variant XFP501/X/FR French language variant XFP501/X/PORT Portuguese language variant XFP501/X/NL Dutch language variant XFP501/X/CZ Czech language variant Certified with the following options with requirements from EN54-2: 1997 7.8 Output to fire alarm device(s) 7.11 Delays to the actioning of outputs fire alarm devices and fire routing equipment 7.12.1 Dependencies on more than one alarm signal - Type A 7.12.2 Dependencies on more than one alarm signal - Type B 7.12.3 Dependencies on more than one alarm signal - Type C 7.13 Alarm counter 8.3 Fault signals from points 9.5 Disablement of each address point 10 Test condition *Notes:* *1. Scope of approval does not include the operation of the network functionality.* *2. This product approval does not constitute compliance with the fire detection and alarm system requirements of EN54-13.*	176b/04
XFP501E/H	1 Loop, 16 zone analogue addressable control and indicating equipment using Hochiki protocol, plastic housing Incorporating the following units: SPF0702025 Switch mode power supply board SPF0501118 XFP Hochiki 1 loop, main motherboard Optional language variants; XFP501E/H/NL Dutch language variant Certified with the following options with requirements from EN54-2: 1997 7.8 Output to fire alarm device(s) 7.11 Delays to the actioning of outputs fire alarm devices and fire routing equipment 7.12.1 Dependencies on more than one alarm signal - Type A 7.12.2 Dependencies on more than one alarm signal - Type B 7.12.3 Dependencies on more than one alarm signal - Type C 7.13 Alarm counter 8.3 Fault signals from points 9.5 Disablement of each address point 10 Test condition *Notes:* *1. Scope of approval does not include the operation of the network functionality*	176b/05
XFP501E/X	1 Loop, 16 zone analogue addressable control and indicating equipment using Apollo Protocol, plastic housing Incorporating the following units: SPF0702025 Switch mode power supply board SPF0501116 XFP Apollo 1 loop, main motherboard	176b/06

Certificated Products		LPCB Ref. No.
	Optional language variants; XFP501E/X/ES Spanish language variant XFP501E/X/FR French language variant XFP501E/X/PORT Portuguese language variant XFP501E/X/NL Dutch language variant XFP501E/X/CZ Czech language variant Certified with the following options with requirements from EN54-2: 1997 7.8 Output to fire alarm device(s) 7.11 Delays to the actioning of outputs fire alarm devices and fire routing equipment 7.12.1 Dependencies on more than one alarm signal - Type A 7.12.2 Dependencies on more than one alarm signal - Type B 7.12.3 Dependencies on more than one alarm signal - Type C 7.13 Alarm counter 8.3 Fault signals from points 9.5 Disablement of each address point 10 Test condition *Notes:* *1. Scope of approval does not include the operation of the network functionality*	
CFP702-4	Two zone conventional control and indicating equipment	176b/07
	Optional language variants; CFP702-4/DE German language variant CFP702-4/ES Spanish language variant CFP702-4/FR French language variant CFP702-4/ICE Icelandic language variant CFP702-4/PORT Portuguese language variant CFP702-4/NL Dutch language variant CFP702-4/CZ Czech language variant CFP702-4/CH Chinese language variant Optional colour variant; CFP702-4/R Red Box Incorporating the units: SPF0702025 Switch mode power supply unit board SPF0724871 2 Zone main control board Certified with the following options with requirements from EN 54-2: 1997 7.8 Output to fire alarm devices(s) 7.11 Delays to outputs 10 Test condition	
CFP704-4	Four zone conventional control and indicating equipment	176b/08
	Incorporating the units: SPF0702025 Switch mode power supply unit board SPF0724873 4 Zone main control board Optional language variants; CFP704-4/DE German language variant CFP704-4/ES Spanish language variant CFP704-4/FR French language variant CFP704-4/ICE Icelandic language variant CFP704-4/PORT Portuguese language variant CFP704-4/NL Dutch language variant CFP704-4/CZ Czech language variant CFP704-4/CH Chinese language variant Optional colour variant; CFP704-4/R Red Box Certified with the following options with requirements from EN 54-2: 1997 7.8 Output to fire alarm devices(s) 7.11 Delays to outputs 10 Test condition	
CFP708-4	Eight zone conventional control and indicating equipment	176b/09

Certificated Products		LPCB Ref. No.
	Incorporating the units: SPF0702025 Switch mode power supply unit board SPF0724875 8 Zone main control board Optional language variants; CFP708-4/DE German language variant CFP708-4/ES Spanish language variant CFP708-4/FR French language variant CFP708-4/ICE Icelandic language variant CFP708-4/PORT Portuguese language variant CFP708-4/NL Dutch language variant CFP708-4/CZ Czech language variant CFP708-4/CH Chinese language variant Optional colour variant; CFP708-4/R Red Box	
CFP702-2	Certified with the following options with requirements from EN 54-2: 1997 7.8 Output to fire alarm devices(s) 7.11 Delays to outputs 10 Test condition Alarmsense two zone conventional control and indication equipment Incorporating the following units: SPF0702025 Switch mode power supply unit board SPF0724870 2 Zone main control board	176b/14
CFP704-2	Certified with the following options with requirements from EN 54-2: 1997 7.8 Output to fire alarm devices(s) 7.11 Delays to outputs 10 Test condition Alarmsense four zone conventional control and indicating equipment Incorporating the following units: SPF0702025 Switch mode power supply unit board SPF0724872 4 Zone main control board	176b/15
CFP708-2	Certified with the following options with requirements from EN 54-2: 1997 7.8 Output to fire alarm devices(s) 7.11 Delays to outputs 10 Test condition Alarmsense eight zone conventional control and indicating equipment Incorporating the following units: SPF0702025 Switch mode power supply unit board SPF0724874 8 Zone main control board	176b/16
CFP702E-4	Certified with the following options with requirements from EN 54-2: 1997 7.8 Output to fire alarm devices(s) 7.11 Delays to outputs 10 Test condition Two zone conventional control and indicating equipment Incorporating the units: SPF0702025 Switch mode power supply unit board SPF0724851 2 Zone main control board	176b/17
CFP704E-4	Certified with the following options with requirements from EN 54-2: 1997 7.8 Output to fire alarm devices(s) 7.11 Delays to outputs Four zone conventional control and indicating equipment Incorporating the units: SPF0702025 Switch mode power supply unit board SPF0724853 4 Zone main control board	176b/18
CFP708E-4	Certified with the following options with requirements from EN 54-2: 1997 7.8 Output to fire alarm devices(s) 7.11 Delays to outputs Eight zone conventional control and indicating equipment	176b/19

Certificated Products		LPCB Ref. No.
	Incorporating the units: SPF0702025 Switch mode power supply unit board SPF0724855 8 Zone main control board Certified with the following options with requirements from EN 54-2: 1997 7.8 Output to fire alarm devices(s) 7.11 Delays to outputs	
XFP501E/CA	1 Loop 16 Zone Analogue Addressable Control and Indicating Equipment using CAST protocol, plastic housing *Incorporating the following modules:* *SPF0050127 1 Loop Main board* *SPF0702025 Switch mode power supply board* *Certified with the following options with requirements from EN 54-2: 1997* *7.8 Output to fire alarm devices* *7.11 Delays to outputs* *7.12.1 Dependencies on more than one alarm signal - Type A* *7.12.2 Dependencies on more than one alarm signal - Type B* *7.12.3 Dependencies on more than one alarm signal - Type C* *7.13 Alarm counter* *8.3 Fault signals from points* *9.5 Disablement of addressable points* *10 Test condition* *Notes:* *1. This product approval does not constitute compliance with the fire detection and alarm systems requirements of EN54-13.*	176b/26
XFP501/CA	1 Loop 32 Zone Analogue Addressable Control and Indicating Equipment using CAST protocol, metal housing *Incorporating the following modules:* *SPF0050110 1 Loop Main board* *SPF0501021 Switch mode power supply board* *SPF0501199 Display Board* *Certified with the following options with requirements from EN 54-2: 1997* *7.8 Output to fire alarm devices* *7.11 Delays to outputs* *7.12.1 Dependencies on more than one alarm signal - Type A* *7.12.2 Dependencies on more than one alarm signal - Type B* *7.12.3 Dependencies on more than one alarm signal - Type C* *7.13 Alarm counter* *8.3 Fault signals from points* *9.5 Disablement of addressable points* *10 Test condition* *Notes:* *1. This product approval does not constitute compliance with the fire detection and alarm systems requirements of EN54-13.*	176b/27
XFP502/CA	2 Loop 32 Zone Analogue Addressable Control and Indicating Equipment using CAST protocol, metal housing *Incorporating the following modules:* *SPF0050210 2 Loop Main board* *SPF0501021 Switch mode power supply board* *SPF0501199 Display Board* *Certified with the following options with requirements from EN 54-2: 1997* *7.8 Output to fire alarm devices* *7.11 Delays to outputs* *7.12.1 Dependencies on more than one alarm signal - Type A* *7.12.2 Dependencies on more than one alarm signal - Type B* *7.12.3 Dependencies on more than one alarm signal - Type C* *7.13 Alarm counter* *8.3 Fault signals from points* *9.5 Disablement of addressable points* *10 Test condition* *Notes:* *1. This product approval does not constitute compliance with the fire detection and alarm systems requirements of EN54-13.*	176b/28

Certificated Products		LPCB Ref. No.
ZFP1/CA	ZFP 1 Loop Analogue Addressable Control and Indicating Equipment, 5A PSU, Standard Cabinet Incorporating the following modular units: RPF0000051 Main display PCB RPF0999308 Loop 1 - 2 PCB RPF0000060 Credit Card Processor Board RPF0361020 5 Amp PSU module Certified with the following options with requirements from EN 54-2: 7.8 Output to fire alarm devices 7.11 Delays to outputs 7.12.1 Dependencies on more than one alarm signal - Type A 7.12.2 Dependencies on more than one alarm signal - Type B 7.13 Alarm counter 8.3 Fault signal from points 9.5 Disablement of each addressable point 10 Test Condition Notes: 1. This product approval does not constitute compliance with the fire detection and alarm systems requirements of EN54-13.	176b/29
ZFP2/CA	ZFP 2 Loop Analogue Addressable Control and Indicating Equipment, 5A PSU, Standard Cabinet Incorporating the following modular units: RPF0000051 Main display PCB RPF0999308 Loop 1 - 2 PCB RPF0000060 Credit Card Processor Board RPF0361020 5 Amp PSU module Optional Modules: RPF0000028 Z11 - 4-way relay PCB RPF0000029 Z13 - 8 way I/O PCB Certified with the following options with requirements from EN 54-2: 7.8 Output to fire alarm devices 7.11 Delays to outputs 7.12.1 Dependencies on more than one alarm signal - Type A 7.12.2 Dependencies on more than one alarm signal - Type B 7.13 Alarm counter 8.3 Fault signal from points 9.5 Disablement of each addressable point 10 Test Condition Notes: 1. This product approval does not constitute compliance with the fire detection and alarm systems requirements of EN54-13.	176b/30
ZFP4/CA	ZFP 4 Loop Analogue Addressable Control and Indicating Equipment, 5A PSU, Standard Cabinet Incorporating the following modular units: RPF0000051 Main display PCB RPF0999308 Loop 1 - 2 PCB RPF0999307 Loop 3 - 4 expansion PCB RPF0000060 Credit Card Processor Board RPF0361020 5 Amp PSU module Optional Modules: RPF0000028 Z11 - 4-way relay PCB RPF0000029 Z13 - 8 way I/O PCB Certified with the following options with requirements from EN 54-2: 7.8 Output to fire alarm devices 7.11 Delays to outputs 7.12.1 Dependencies on more than one alarm signal - Type A 7.12.2 Dependencies on more than one alarm signal - Type B 7.13 Alarm counter 8.3 Fault signal from points 9.5 Disablement of each addressable point 10 Test Condition	176b/31

Certificated Products		LPCB Ref. No.
	Notes: 1. This product approval does not constitute compliance with the fire detection and alarm systems requirements of EN54-13.	
ZFP1/40/CA	ZFP 1 Loop Analogue Addressable Control and Indicating Equipment, 5A PSU, 40 zone indication, Standard Cabinet Incorporating the following modular units: RPF0000051 Main display PCB RPF0999308 Loop 1 - 2 PCB RPF0000025 Z47-40 LED Display RPF0000060 Credit Card Processor Board RPF0361020 5 Amp PSU module Optional Modules: RPF0000024 Z48 - 40 LED Display with 5 key switches RPF0000028 Z11 - 4-way relay PCB RPF0000029 Z13 - 8 way I/O PCB Certified with the following options with requirements from EN 54-2: 7.8 Output to fire alarm devices 7.11 Delays to outputs 7.12.1 Dependencies on more than one alarm signal - Type A 7.12.2 Dependencies on more than one alarm signal - Type B 7.13 Alarm counter 8.3 Fault signal from points 9.5 Disablement of each addressable point 10 Test Condition	176b/32
	Notes: 1. This product approval does not constitute compliance with the fire detection and alarm systems requirements of EN54-13.	
ZFP2/40/CA	ZFP 2 Loop Analogue Addressable Control and Indicating Equipment, 5A PSU, 40 zone indication, Standard Cabinet Incorporating the following modular units: RPF0000051 Main display PCB RPF0999308 Loop 1 - 2 PCB RPF0000025 Z47-40 LED Display RPF0000060 Credit Card Processor Board RPF0361020 5 Amp PSU module Optional Modules: RPF0000024 Z48 - 40 LED Display with 5 key switches RPF0000028 Z11 - 4-way relay PCB RPF0000029 Z13 - 8 way I/O PCB Certified with the following options with requirements from EN 54-2: 7.8 Output to fire alarm devices 7.11 Delays to outputs 7.12.1 Dependencies on more than one alarm signal - Type A 7.12.2 Dependencies on more than one alarm signal - Type B 7.13 Alarm counter 8.3 Fault signal from points 9.5 Disablement of each addressable point 10 Test Condition	176b/33
	Notes: 1. This product approval does not constitute compliance with the fire detection and alarm systems requirements of EN54-13.	
ZFP4/40/CA	ZFP 4 Loop Analogue Addressable Control and Indicating Equipment, 5A PSU, 40 zone indication, Standard Cabinet Incorporating the following modular units: RPF0000051 Main display PCB RPF0999308 Loop 1 - 2 PCB RPF0999307 Loop 3 - 4 expansion PCB RPF0000025 Z47-40 LED Display RPF0000060 Credit Card Processor Board RPF0361020 5 Amp PSU module Optional Modules: RPF0000024 Z48 - 40 LED Display with 5 key switches RPF0000029 Z13 - 8-way I/O PCB	176b/34

Certificated Products		LPCB Ref. No.
	RPF0000028 Z11 - 4 way relay PCB	

Certified with the following options with requirements from EN 54-2:
7.8 Output to fire alarm devices
7.11 Delays to outputs
7.12.1 Dependencies on more than one alarm signal - Type A
7.12.2 Dependencies on more than one alarm signal - Type B
7.13 Alarm counter
8.3 Fault signal from points
9.5 Disablement of each addressable point
10 Test Condition

Notes:
1. This product approval does not constitute compliance with the fire detection and alarm systems requirements of EN54-13.

A copy of the certificate, confirming the full scope of approval including notes relating to the superscript references in the above table, may be viewed online by clicking on the product name in the associated entry on www.RedBookLive.com

Certificate No: 176c to EN 12094-1: 2003 and EN 54-2: 1997 + A1: 2006 + A2: 2007, EN 54-4: 1997 + A1: 2002 + A2: 2006

Certificated Products		LPCB Ref. No.
EP203	Conventional three zone class A extinguisher control panel	176c/01

Incorporating the following units:

SPF0000203 Main extinguisher control
SPF0000212 External relay interface
SPF0361021 Power supply unit
SPF0000214 EP214 terminator

Incorporating as modular units:

EP211 Economy Status Unit optional (See Note 1)

Optional language variants;
EP203/ES Spanish language variant
EP203/FR French language variant
EP203/IT Italian language variant
EP203/DE German language variant

Certified with the following options with requirements from EN 12094-1:2003
4.17 Delay of extinguishing signal
4.18 Signal representing the flow of extinguishing agent
4.19 Monitoring of the status of components
4.20 Emergency hold device
4.21 Control of flooding time
4.23 Manual only mode
4.26 Triggering of equipment outside the system
4.27 Emergency abort device
4.30 Activation of alarm devices with different signals

Certified with the following options with requirements from EN-54-2:1997
7.8 Output to fire alarm device(s)
7.11 Delays to the actioning of outputs fire alarm devices and fire routing equipment
7.13 Alarm counter
10 Test condition

Notes:
1. The following modules are ancillaries that are permitted to be connected to the e.c.d. as optional modules but are not tested or approved to any standard(s)
EP210S Remote Status Unit Surface Mount optional
EP210F Remote Status Unit Flush Mount optional
EP211 Economy Status Unit optional
EP215 Emergency Hold/Abort
2. The e.c.d. meets the requirements of EN12094-1:2003, Class A - i.e. operational temperature range of -5C to + 40C.
3. This product approval does not constitute compliance with the fire detection

Certificated Products		LPCB Ref. No.
	and alarm system requirements of EN54-13.	

A copy of the certificate, confirming the full scope of approval including notes relating to the superscript references in the above table, may be viewed online by clicking on the product name in the associated entry on www.RedBookLive.com

Certificate No: 176p to EN54-4: 1997 + A1: 2002 + A2: 2006

Power Supply Equipment

Certificated Products		LPCB Ref. No.
BF560-12	12V, 2A Boxed Power Supply Plastic Housing with 7Ah battery *Incorporating the following units:* *SPF5601204 - Power supply module* *SPF0360000 - Display module* *Note:* *1. The unit is not intended to supply power to equipment that requires dual power paths such as control and indicating equipment*	176p/01
BF560-24	24V, 1.5A Boxed Power Supply Plastic Housing with 3.2Ah batteries *Incorporating the following units:* *SPF5602402 - Power supply module* *SPF0360010 - Display module* *Note:* *1. The unit is not intended to supply power to equipment that requires dual power paths such as control and indicating equipment*	176p/02
BF562-1	24V, 1.5A Boxed Power Supply Metal Housing with 17Ah batteries *Incorporating the following units:* *SPF5602402 - Power supply module* *SPF0003610 - Display module* *Note:* *1. The unit is not intended to supply power to equipment that requires dual power paths such as control and indicating equipment*	176p/03
NT560-12/E	12V, 2A Boxed Power Supply Metal Housing with 12Ah Battery Incorporating the following units: SPF5601202 - Power supply module *Note:* *1. The unit is not intended to supply power to equipment that requires dual power paths such as control and indicating equipment*	176p/04
BF562-5	24V, 5A Boxed Power Supply Metal Housing with 17Ah batteries Incorporating the following units: SPF0361021 - Power supply module SPF0003610 - Display module *Note:* *1. 1. The unit is not intended to supply power to equipment that requires dual power paths such as control and indicating equipment*	176p/05
BF562-3	24V, 3A Boxed Power Supply Metal Housing with 17Ah batteries Incorporating the following units: SPF0361021 - Power supply module SPF0003610 - Display module *Note:* *1. 1. The unit is not intended to supply power to equipment that requires dual power paths such as control and indicating equipment*	176p/06
NC560-12/E	12V, 2A Boxed Power Supply Metal Housing with 12Ah Battery Incorporating the following units: SPF5601202 - Power supply module *Note:* *1. The unit is not intended to supply power to equipment that requires dual power paths such as control and indicating equipment*	176p/07

A copy of the certificate, confirming the full scope of approval including notes relating to the superscript references in the above table, may be viewed online by clicking on the product name in the associated entry on www.RedBookLive.com

Context Plus Ltd

Progress House, Newby Industrial Estate, Newby Road, Hazel Grove, Stockport SK7 5DA, United Kingdom
Tel: +44 (0)161 257 2541 • Fax: +44 (0)161 225 8817
E-mail: xportsales@xportsales.com • Website: www.xportsales.com

Certificate No: 176b-(cl-2) to EN 54-2: 1997 + A1: 2006 and EN 54-4: 1997 + A1 :2002 + A2:2006
Certificate No: 176c-(cl-2) to EN 54-2: 1997 + A1: 2006

Control and indicating equipment

Certificated Products		**LPCB Ref. No.**
XFP502/X/CON	2 Loop, 32 Zone Analogue Addressable Control and Indicating Equipment using Apollo Protocol, Metal Housing Incorporating the following units: SPF0501021 Switch mode power supply board SPF0501425 XFP Apollo 2 loop, Mainboard SPF0501199 Display board (Keypad display) Certified with the following options with requirements from EN54-2: 1997 7.8 Output to fire alarm device(s) 7.11 Delays to the actioning of outputs fire alarm devices and fire routing equipment 7.12.1 Dependencies on more than one alarm signal - Type A 7.12.2 Dependencies on more than one alarm signal - Type B 7.12.3 Dependencies on more than one alarm signal - Type C 7.13 Alarm counter 8.3 Fault signals from points 9.5 Disablement of each address point 10 Test condition *Notes:* *1. Scope of approval does not include the operation of the network functionality.* *2. This product approval does not constitute compliance with the fire detection and alarm system requirements of EN54-13.*	176b/02
XFP501/X/CON	1 Loop, 32 Zone Analogue Addressable Control and Indicating Equipment using Apollo Protocol, Metal Housing Incorporating the following units: SPF0501021 Switch mode power supply board SPF0501424 XFP Apollo 1 loop, Mainboard SPF0501199 Display board (keypad display) Certified with the following options with requirements from EN54-2: 1997 7.8 Output to fire alarm device(s) 7.11 Delays to the actioning of outputs fire alarm devices and fire routing equipment 7.12.1 Dependencies on more than one alarm signal - Type A 7.12.2 Dependencies on more than one alarm signal - Type B 7.12.3 Dependencies on more than one alarm signal - Type C 7.13 Alarm counter 8.3 Fault signals from points 9.5 Disablement of each address point 10 Test condition *Notes:* *1. Scope of approval does not include the operation of the network functionality.* *2. This product approval does not constitute compliance with the fire detection and alarm system requirements of EN54-13.*	176b/04
XFP501E/X/CON	1 Loop, 16 Zone Analogue Addressable Control and Indicating Equipment using Apollo Protocol, Plastic Housing Incorporating the following units: SPF0702025 Switch mode power supply board SPF0501116 XFP Apollo 1 loop, main motherboard Certified with the following options with requirements from EN54-2: 1997 7.8 Output to fire alarm device(s) 7.11 Delays to the actioning of outputs fire alarm devices and fire routing equipment 7.12.1 Dependencies on more than one alarm signal - Type A	176b/06

Certificated Products		LPCB Ref. No.
	7.12.2 Dependencies on more than one alarm signal - Type B 7.12.3 Dependencies on more than one alarm signal - Type C 7.13 Alarm counter 8.3 Fault signals from points 9.5 Disablement of each address point 10 Test condition *Notes:* *1. Scope of approval does not include the operation of the network functionality.* *2. This product approval does not constitute compliance with the fire detection and alarm system requirements of EN54-13.*	
CFP702-4/CON	Two Zone Conventional Control and Indicating Equipment Incorporating the units: SPF0702025 Switch mode power supply unit board SPF0724871 2 Zone main control board Certified with the following options with requirements from EN 54-2:1997 7.8 Output to fire alarm devices(s) 7.11 Delays to outputs 10 Test condition *Notes:* *1. Scope of approval does not include the operation of the network functionality.* *2. This product approval does not constitute compliance with the fire detection and alarm system requirements of EN54-13.*	176b/07
CFP704-4/CON	Four Zone Conventional Control and Indicating Equipment Incorporating the units: SPF0702025 Switch mode power supply unit board SPF0724873 4 Zone main control board Certified with the following options with requirements from EN 54-2:1997 7.8 Output to fire alarm devices(s) 7.11 Delays to outputs 10 Test condition *Notes:* *1. Scope of approval does not include the operation of the network functionality.* *2. This product approval does not constitute compliance with the fire detection and alarm system requirements of EN54-13.*	176b/08
CFP708-4/CON	Eight Zone Conventional Control and Indicating Equipment Incorporating the units: SPF0702025 Switch mode power supply unit board SPF0724875 8 Zone main control board Certified with the following options with requirements from EN 54-2:1997 7.8 Output to fire alarm devices(s) 7.11 Delays to outputs 10 Test condition *Notes:* *1. Scope of approval does not include the operation of the network functionality.* *2. This product approval does not constitute compliance with the fire detection and alarm system requirements of EN54-13.*	176b/09
XFP501E/CA/CON	1 Loop 16 Zone Analogue Addressable Control and Indicating Equipment using CAST Protocol, Plastic Housing Incorporating the following modules: SPF0050127 1 Loop Main board SPF0702025 Switch mode power supply board Certified with the following options with requirements from EN 54-2:1997 7.8 Output to fire alarm devices 7.11 Delays to outputs 7.12.1 Dependencies on more than one alarm signal - Type A 7.12.2 Dependencies on more than one alarm signal - Type B 7.12.3 Dependencies on more than one alarm signal - Type C 7.13 Alarm counter 8.3 Fault signals from points 9.5 Disablement of addressable points 10 Test condition *Notes:* *1. Scope of approval does not include the operation of the network functionality.* *2. This product approval does not constitute compliance with the fire detection and alarm*	176b/26

Certificated Products		LPCB Ref. No.
	system requirements of EN54-13.	
XFP501/CA/CON	1 Loop 32 Zone Analogue Addressable Control and Indicating Equipment using CAST Protocol, Metal Housing Incorporating the following modules: SPF0050110 1 Loop Main board SPF0501021 Switch mode power supply board SPF0501199 Display Board Certified with the following options with requirements from EN 54-2:1997 7.8 Output to fire alarm devices 7.11 Delays to outputs 7.12.1 Dependencies on more than one alarm signal - Type A 7.12.2 Dependencies on more than one alarm signal - Type B 7.12.3 Dependencies on more than one alarm signal - Type C 7.13 Alarm counter 8.3 Fault signals from points 9.5 Disablement of addressable points 10 Test condition *Notes:* *1. Scope of approval does not include the operation of the network functionality.* *2. This product approval does not constitute compliance with the fire detection and alarm system requirements of EN54-13.*	176b/27
XFP502/CA/CON	2 Loop 32 Zone Analogue Addressable Control and Indicating Equipment using CAST Protocol, Metal Housing Incorporating the following modules: SPF0050210 2 Loop Main board SPF0501021 Switch mode power supply board SPF0501199 Display Board Certified with the following options with requirements from EN 54-2:1997 7.8 Output to fire alarm devices 7.11 Delays to outputs 7.12.1 Dependencies on more than one alarm signal - Type A 7.12.2 Dependencies on more than one alarm signal - Type B 7.12.3 Dependencies on more than one alarm signal - Type C 7.13 Alarm counter 8.3 Fault signals from points 9.5 Disablement of addressable points 10 Test condition *Notes:* *1. Scope of approval does not include the operation of the network functionality.* *2. This product approval does not constitute compliance with the fire detection and alarm system requirements of EN54-13.*	176b/28
ZFP1/40/CA/CON	1 Loop Analogue Addressable Control and Indicating Equipment, 5A PSU, 40 Zone Indication, Standard Cabinet Incorporating the following modular units: RPF0000051 Main display PCB RPF0999308 Loop 1 - 2 PCBRPF0000025 Z47 - 40 LED Display RPF0000060 Credit card Processor board RPF0361020 5 Amp PSU module Optional Modules: RPF0000028 Z11 - 4-way relay PCB RPF0000029 Z13 - 8 way I/O PCB RPF0000024 Z48 - 40 LED Display with 5 key switches Certified with the following options with requirements from EN 54-2: 7.8 Output to fire alarm devices 7.11 Delays to outputs 7.12.1 Dependencies on more than one alarm signal - Type A 7.12.2 Dependencies on more than one alarm signal - Type B 7.13 Alarm counter 8.3 Fault signal from points 9.5 Disablement of each addressable point 10 Test Condition *Notes:* *1. Scope of approval does not include the operation of the network functionality.* *2. This product approval does not constitute compliance with the fire detection and alarm system requirements of EN54-13.*	176b/32

Certificated Products		LPCB Ref. No.
ZFP2/40/CA/CON	2 Loop Analogue Addressable Control and Indicating Equipment, 5A PSU, 40 Zone Indication, Standard Cabinet Incorporating the following modular units: RPF0000051 Main display PCB RPF0999308 Loop 1 - 2 PCBRPF0000025 Z47 - 40 LED Display RPF0000060 Credit card Processor board RPF0361020 5 Amp PSU module Optional Modules: RPF0000028 Z11 - 4-way relay PCB RPF0000029 Z13 - 8 way I/O PCB RPF0000024 Z48 - 40 LED Display with 5 key switches Certified with the following options with requirements from EN 54-2: 7.8 Output to fire alarm devices 7.11 Delays to outputs 7.12.1 Dependencies on more than one alarm signal - Type A 7.12.2 Dependencies on more than one alarm signal - Type B 7.13 Alarm counter 8.3 Fault signal from points 9.5 Disablement of each addressable point 10 Test Condition *Notes:* *11. Scope of approval does not include the operation of the network functionality.* *2. This product approval does not constitute compliance with the fire detection and alarm system requirements of EN54-13.*	176b/33
ZFP4/40/CA/CON	4 Loop Analogue Addressable Control and Indicating Equipment, 5A PSU, 40 zone indication, Standard Cabinet Incorporating the following modular units: RPF0000051 Main display PCB RPF0999308 Loop 1 - 2 PCB RPF0999307 Loop 3 - 4 expansion PCB RPF0000025 Z47 - 40 LED Display RPF0000060 Credit card Processor board RPF0361020 5 Amp PSU module Optional Modules: RPF0000028 Z11 - 4-way Relay PCB RPF0000029 Z13 - 8-way I/O PCB RPF0000024 Z48 - 40 LED Display with 5 key switches Certified with the following options with requirements from EN 54-2: 7.8 Output to fire alarm devices 7.11 Delays to outputs 7.12.1 Dependencies on more than one alarm signal - Type A 7.12.2 Dependencies on more than one alarm signal - Type B 7.13 Alarm counter 8.3 Fault signal from points 9.5 Disablement of each addressable point 10 Test Condition *Notes:* *1. Scope of approval does not include the operation of the network functionality.* *2. This product approval does not constitute compliance with the fire detection and alarm system requirements of EN54-13.*	176b/34

A copy of the certificate, confirming the full scope of approval including notes relating to the superscript references in the above table, may be viewed online by clicking on the product name in the associated entry on www.RedBookLive.com

---

DEF ..

9 Rue du Saule Trapu, , MASSY 91300, France
Tel: +33 (0) 160136772

Certificate No: 1652a-(cl-1) to EN 54-4:1997 + A1:2002 + A2:2006

Power Supply Equipment

Certificated Products		LPCB Ref. No.
AU1024A2/3	Power Supply Equipment (CM03B enclosure) Incorporating as modular units: GAL300W Main board SC-GAL Control board 4LED_ALK LEDs reporting board	1652a/01

A copy of the certificate, confirming the full scope of approval including notes relating to the superscript references in the above table, may be viewed online by clicking on the product name in the associated entry on www.RedBookLive.com

---

DEF.

7, rue du Saule Trapu, MASSY 91300, France
Tel: +33 (0) 160136772
E-mail: frederic.chateau@coflec.com

Certificate No: 1548a-(cl-1) to EN 54-2:1997 + A1:2006 EN 54-4:1997 + A1:2002 + A2:2006

EN 54-2:1997 + A1:2006 EN 54-4:1997 + A1:2002 + A2:2006

Certificated Products		LPCB Ref. No.
LEONIS A	1-2 Loop Analogue Addressable Control and Indicating Equipment, Apollo Protocol, Plastic Housing Incorporating the following mandatory modules MCU Main Board BA100 Power Supply CPFA Display Board M1LA 1 Loop x Apollo protocol Incorporating the following optional modules M2SL 2x conventional Sounder BPS Backplane M4IO2R-EG 4 I/O & 2 Relay M8GPIO-EG 8 channel I/O MR10-EG 10 relay outputs MGW-EG Supervisor gateway Certified with the following option with requirements 7.8 Output to fire alarm devices 7.10.1 Outputs to fire controls for fire protection equipment - Output type A 7.11 Delays to outputs 7.12.1 Dependencies on more than one alarm signal - Type A 7.12.3 Dependencies on more than one alarm signal - Type C 7.13 Alarm counter 8.3 Fault signals from points 8.4 Total loss of the power supply 9.5 Disablement of addressable points 10 Test condition	1548a/01
LEONIS A	1-4 Loop Analogue Addressable Control and Indicating Equipment, Apollo Protocol, Metal Housing Incorporating the following mandatory modules MCU Main Board BA100 Power Supply CPFA Display Board M1LA 1 Loop x Apollo protocol Incorporating the following optional modules M2SL 2x conventional Sounder BPS Backplane M4IO2R-EG 4 I/O & 2 relay M8GPIO-EG 8 channel I/O MR10-EG 10 relay outputs MGW-EG Supervisor gateway Certified with the following option with requirements 7.8 Output to fire alarm devices	1548a/02

Certificated Products		LPCB Ref. No.
	7.10.1 Outputs to fire controls for fire protection equipment - Output type A 7.11 Delays to outputs 7.12.1 Dependencies on more than one alarm signal - Type A 7.12.3 Dependencies on more than one alarm signal - Type C 7.13 Alarm counter 8.3 Fault signals from points 8.4 Total loss of the power supply 9.5 Disablement of addressable points 10 Test condition	
LEONIS	1-2 Loop Analogue Addressable Control and Indicating Equipment for LOTA range of products, Plastic Housing Incorporating the following mandatory modules MCU Main Board BA100 Power Supply CPFA Display Board M1BT Detection path for LOTA range of products Incorporating the following optional modules M2SL 2x conventional Sounder BPS Backplane M4IO2R-EG 4I/O & 2 Relay M8GPIO-EG 8 channel I/O MR10-EG 10 relay outputs MGW-EG Supervisor gateway MGER-EG Alarm and Fault transmission path Certified with the following option with requirements 7.8 Output to fire alarm devices 7.9.1 Output to fire alarm routing equipment 7.10.1 Outputs to fire controls for fire protection equipment - Output type A 7.11 Delays to outputs 7.12.1 Dependencies on more than one alarm signal - Type A 7.12.2 Dependencies on more than one alarm signal - Type B 7.12.3 Dependencies on more than one alarm signal - Type C 7.13 Alarm counter 8.3 Fault signals from points 8.4 Total loss of the power supply 8.9 Output to fault warning routing equipment 9.5 Disablement of addressable points 10 Test condition	1548a/03
LEONIS	1-4 Loop Analogue Addressable Control and Indicating Equipment for LOTA range of products, Metal Housing Incorporating the following mandatory modules MCU Main Board BA100 Power Supply CPFA Display Board M1BT Detection path for LOTA range of products Incorporating the following optional modules M2SL 2x conventional Sounder BPS Backplane M4IO2R-EG 4 I/O & 2 relay M8GPIO-EG 8 channel I/O MR10-EG 10 relay outputs MGW-EG Supervisor gateway MGER-EG Alarm and Fault transmission path Certified with the following option with requirements 7.8 Output to fire alarm devices 7.9.1 Output to fire alarm routing equipment 7.10.1 Outputs to fire controls for fire protection equipment - Output type A 7.11 Delays to outputs 7.12.1 Dependencies on more than one alarm signal - Type A 7.12.2 Dependencies on more than one alarm signal - Type B 7.12.3 Dependencies on more than one alarm signal - Type C 7.13 Alarm counter 8.3 Fault signals from points 8.4 Total loss of the power supply 8.9 Output to fault warning routing equipment 9.5 Disablement of addressable points 10 Test condition	1548a/04

A copy of the certificate, confirming the full scope of approval including notes relating to the superscript references in the above table, may be viewed online by clicking on the product name in the associated entry on www.RedBookLive.com

Detectomat Systems GmbH.
An der Strusbek 3, Ahrensburg, Hamburg 22926, Germany
Tel: +49 41 02 21 14 60 • Fax: +49 4102 2114 670
E-mail: zulassung@detectomat.com

Certificate No: 1548a-(cl-2) to EN 54-2:1997 + A1:2006 EN 54-4:1997 + A1:2002 + A2:2006

Control and indicating equipment

Certificated Products		**LPCB Ref. No.**
DC520	1-2 Loop Analogue Addressable Control and Indicating Equipment, DL 520 Protocol, Plastic Housing Incorporating the following mandatory modules CPU-520 Main Board BA100 Power Supply CPFA Display Board M1BT ELOT (1 Loop Detection path, DL 520 protocol) Incorporating the following optional modules M2SL 2x conventional Sounder BPS Backplane M4IO2R-520 4 I/O & 2 relay M8IO-520 8 channel I/O M10R- 520 10 relay outputs MGW-520 Supervisor gateway MGER-520 Alarm and Fault transmission path Certified with the following option with requirements 7.8 Output to fire alarm devices 7.9.1 Output to fire alarm routing equipment 7.10.1 Outputs to fire controls for fire protection equipment - Output type A 7.11 Delays to outputs 7.12.1 Dependencies on more than one alarm signal - Type A 7.12.2 Dependencies on more than one alarm signal - Type B 7.12.3 Dependencies on more than one alarm signal - Type C 7.13 Alarm counter 8.3 Fault signals from points 8.4 Total loss of the power supply 8.9 Output to fault warning routing equipment 9.5 Disablement of addressable points 10 Test condition	1548a/03
DC520	1-4 Loop Analogue Addressable Control and Indicating Equipment, DL 520 Protocol, Metal Housing Incorporating the following mandatory modules CPU-520 Main Board BA100 Power Supply CPFA Display Board M1BT ELOT (1 Loop Detection path, DL 520 protocol) Incorporating the following optional modules M2SL 2x conventional Sounder BPS Backplane M4IO2R-520 4 I/O & 2 relay M8IO-520 8 channel I/O M10R- 520 10 relay outputs MGW-520 Supervisor gateway MGER-520 Alarm and Fault transmission path Certified with the following option with requirements 7.8 Output to fire alarm devices 7.9.1 Output to fire alarm routing equipment 7.10.1 Outputs to fire controls for fire protection equipment - Output type A 7.11 Delays to outputs 7.12.1 Dependencies on more than one alarm signal - Type A 7.12.2 Dependencies on more than one alarm signal - Type B 7.12.3 Dependencies on more than one alarm signal - Type C 7.13 Alarm counter 8.3 Fault signals from points 8.4 Total loss of the power supply 8.9 Output to fault warning routing equipment	1548a/04

Certificated Products		LPCB Ref. No.
9.5	Disablement of addressable points	
10	Test condition	

A copy of the certificate, confirming the full scope of approval including notes relating to the superscript references in the above table, may be viewed online by clicking on the product name in the associated entry on www.RedBookLive.com

Eaton Electrical Products Limited

Llantarnam Park, Cwmbran, Gwent NP44 3AW, United Kingdom
Tel: +44 (0)1633 628500 • Fax: +44 (0)1633 866346
E-mail: sales@fulleon.co.uk • Website: www.cooperfulleon.com

Certificate No: 378q-(cl-1) to EN54-2: 1997 + A1: 2002 & EN54-4: 1997 + A1: 2002 + A2: 2006

Certificated Products		LPCB Ref. No.
EFXD01040	xDetect 1-4 Loop Analogue Addressable Control and Indicating Equipment Incorporating the following modules: EFXD05001 xDetect Loop Card 1 Loop Protocol 800 (x4 Cards) EFXD05081 xDetect CIE Backplane Large Enclosure EFXD05052 xDetect CIE Int. Dual PSE backplane EFXD05080 xDetect CIE Panel Gateway Card EFXD05030 xDetect Programmable IO CardEFXD05020 xDetect Sounder Circuit Card 2 Outputs 36-A780 xDetect HMI 26-A470 xDetect HMI Screen Module EFXD05051 xDetect CIE Int. Power Supply 150W Incorporating the following optional modules: EFXD05040 xDetect Network Card Mechanical optional modules: EFXD05092 xDetect CIE Door Large HMI Only Certified with the following options with requirements from EN 54-2: 7.8 Output to fire alarm device(s) 7.9.1 Output to fire alarm routing equipment 7.9.2 Alarm confirmation input from fire alarm routing equipment 7.10.1 Outputs to fire protection equipment - Output type A 7.10.2 Outputs to fire protection equipment - Output type B 7.10.3 Outputs to fire protection equipment - Output type C 7.11 Delays to outputs 7.12.3 Dependencies on more than one alarm signal - Type C 7.13 Alarm Counter 8.3 Fault signals from points 8.4 Total loss of the power supply 8.9 Output to fault warning routing equipment 9.5 Disablement of each address point 10 Test condition *Notes:* *1. Scope of approval does not include the operation of the network functionality* *2. This product approval does not constitute compliance with the fire detection and alarm system requirements of EN54-13.*	378q/02
EFXD01022	xDetect 1-2 Loop Addressable Control and Indicating Equipment Incorporating the following modules: EFXD05001 xDetect Loop Card 1 Loop Protocol 800 (x2 Cards) EFXD05082 xDetect CIE Backplane Small Enclosure EFXD05053 xDetect CIE Int. Single PSE backplane EFXD05080 xDetect CIE Panel Gateway Card EFXD05030 xDetect Programmable IO Card EFXD05020 xDetect Sounder Circuit Card 2 Outputs 36-A780 xDetect HMI 26-A470 xDetect HMI Screen Module EFXD05051 xDetect CIE Int. Power Supply 150W Incorporating the following optional modules: EFXD05040 xDetect Network Card	378q/03

Certificated Products		LPCB Ref. No.
	EFXD05060 xDetect Zonal Indicator Board - 128 Zone Mechanical optional modules:EFXD05091 xDetect CIE Door Small HMI Only EFXD05093 xDetect CIE Door Small 128 Zone Certified with the following options with requirements from EN 54-2: 7.8 Output to fire alarm device(s) 7.9.1 Output to fire alarm routing equipment 7.9.2 Alarm confirmation input from fire alarm routing equipment 7.10.1 Outputs to fire protection equipment - Output type A 7.10.2 Outputs to fire protection equipment - Output type B 7.10.3 Outputs to fire protection equipment - Output type C 7.11 Delays to outputs 7.12.3 Dependencies on more than one alarm signal - Type C 7.13 Alarm Counter 8.3 Fault signals from points 8.4 Total loss of the power supply 8.9 Output to fault warning routing equipment 9.5 Disablement of each address point 10 Test condition *Notes:* *1. Scope of approval does not include the operation of the network functionality* *2. This product approval does not constitute compliance with the fire detection and alarm system requirements of EN54-13.*	
EFXD01042	xDetect 4 Loop Addressable Control and Indicating Equipment Incorporating the following modules: EFXD05001 xDetect Loop Card 1 Loop Protocol 800 (x4 Cards) EFXD05081 xDetect CIE Backplane Large Enclosure EFXD05052 xDetect CIE Int. Dual PSE backplane EFXD05080 xDetect CIE Panel Gateway Card EFXD05030 xDetect Programmable IO CardEFXD05020 xDetect Sounder Circuit Card 2 Outputs 36-A780 xDetect HMI 26-A470 xDetect HMI Screen Module EFXD05051 xDetect CIE Int. Power Supply 150W Incorporating the following optional modules: EFXD05040 xDetect Network Card EFXD05060 xDetect Zonal Indicator Board - 128 Zone Mechanical optional modules: EFXD05092 xDetect CIE Door Large HMI Only EFXD05094 xDetect CIE Door Large 128 Zone EFXD05095 xDetect CIE Door Large 256 Zone Certified with the following options with requirements from EN 54-2: 7.8 Output to fire alarm device(s) 7.9.1 Output to fire alarm routing equipment 7.9.2 Alarm confirmation input from fire alarm routing equipment 7.10.1 Outputs to fire protection equipment - Output type A 7.10.2 Outputs to fire protection equipment - Output type B 7.10.3 Outputs to fire protection equipment - Output type C 7.11 Delays to outputs 7.12.3 Dependencies on more than one alarm signal - Type C 7.13 Alarm Counter 8.3 Fault signals from points 8.4 Total loss of the power supply 8.9 Output to fault warning routing equipment 9.5 Disablement of each address point 10 Test condition *Notes:* *1. Scope of approval does not include the operation of the network functionality* *2. This product approval does not constitute compliance with the fire detection and alarm system requirements of EN54-13.*	378q/04
EXDO1020	xDetect 1-2 Loop Analogue Addressable Control and Indicating Equipment Incorporating the following modules: EFXD05001 xDetect Loop Card 1 Loop Protocol 800 (x2 Cards) EFXD05082 xDetect CIE Backplane Small Enclosure EFXD05053 xDetect CIE Int. Single PSE backplane EFXD05080 xDetect CIE Panel Gateway Card EFXD05030 xDetect Programmable IO Card	378q-01

Certificated Products		LPCB Ref. No.
	EFXD05020 xDetect Sounder Circuit Card 2 Outputs 36-A780 xDetect HMI 26-A470 xDetect HMI Screen Module EFXD05051 xDetect CIE Int. Power Supply 150W Incorporating the following optional modules: EFXD05040 xDetect Network Card Mechanical optional modules: EFXD05091 xDetect CIE Door Small HMI Only Certified with the following options with requirements from EN 54-2: 7.8 Output to fire alarm device(s) 7.9.1 Output to fire alarm routing equipment 7.9.2 Alarm confirmation input from fire alarm routing equipment7.10.1 Outputs to fire protection equipment - Output type A 7.10.2 Outputs to fire protection equipment - Output type B 7.10.3 Outputs to fire protection equipment - Output type C 7.11 Delays to outputs 7.12.3 Dependencies on more than one alarm signal - Type C 7.13 Alarm Counter 8.3 Fault signals from points 8.4 Total loss of the power supply 8.9 Output to fault warning routing equipment 9.5 Disablement of each address point 10 Test condition *Notes:* *1. Scope of approval does not include the operation of the network functionality* *2. This product approval does not constitute compliance with the fire detection and alarm system requirements of EN54-13.*	

Certificate No: 378q-(cl-2) to EN54-2: 1997 + A1: 2002 & EN54-4: 1997 + A1: 2002 + A2: 2006

Certificated Products		LPCB Ref. No.
CXD01020	Cooper 1-2 Loop Analogue Addressable Control and Indicating Equipment Incorporating the following modules: EFXD05001 xDetect Loop Card 1 Loop Protocol 800 (x2 Cards) EFXD05082 xDetect CIE Backplane Small Enclosure EFXD05053 xDetect CIE Int. Single PSE backplane EFXD05080 xDetect CIE Panel Gateway Card EFXD05030 xDetect Programmable IO Card EFXD05020 xDetect Sounder Circuit Card 2 Outputs 36-A780 xDetect HMI 26-A470 xDetect HMI Screen Module EFXD05051 xDetect CIE Int. Power Supply 150W Incorporating the following optional modules: EFXD05040 xDetect Network Card Mechanical optional modules: EFXD05091 xDetect CIE Door Small HMI Only Certified with the following options with requirements from EN 54-2: 7.8 Output to fire alarm device(s) 7.9.1 Output to fire alarm routing equipment 7.9.2 Alarm confirmation input from fire alarm routing equipment7.10.1 Outputs to fire protection equipment - Output type A 7.10.2 Outputs to fire protection equipment - Output type B 7.10.3 Outputs to fire protection equipment - Output type C 7.11 Delays to outputs 7.12.3 Dependencies on more than one alarm signal - Type C 7.13 Alarm Counter 8.3 Fault signals from points 8.4 Total loss of the power supply 8.9 Output to fault warning routing equipment 9.5 Disablement of each address point 10 Test condition *Notes:* *1. Scope of approval does not include the operation of the network functionality* *2. This product approval does not constitute compliance with the fire detection and alarm system requirements of EN54-13.*	378q/01

Certificated Products		**LPCB Ref. No.**
CXD01040	Cooper 1-4 Loop Analogue Addressable Control and Indicating Equipment	378q/02

Incorporating the following modules:
EFXD05001 xDetect Loop Card 1 Loop Protocol 800 (x4 Cards)
EFXD05081 xDetect CIE Backplane Large Enclosure
EFXD05052 xDetect CIE Int. Dual PSE backplane
EFXD05080 xDetect CIE Panel Gateway Card
EFXD05030 xDetect Programmable IO CardEFXD05020 xDetect Sounder Circuit Card 2 Outputs
36-A780 xDetect HMI
26-A470 xDetect HMI Screen Module
EFXD05051 xDetect CIE Int. Power Supply 150W

Incorporating the following optional modules:
EFXD05040 xDetect Network Card
Mechanical optional modules:
EFXD05092 xDetect CIE Door Large HMI Only
Certified with the following options with requirements from EN 54-2:
7.8 Output to fire alarm device(s)
7.9.1 Output to fire alarm routing equipment
7.9.2 Alarm confirmation input from fire alarm routing equipment
7.10.1 Outputs to fire protection equipment - Output type A
7.10.2 Outputs to fire protection equipment - Output type B
7.10.3 Outputs to fire protection equipment - Output type C
7.11 Delays to outputs
7.12.3 Dependencies on more than one alarm signal - Type C
7.13 Alarm Counter
8.3 Fault signals from points
8.4 Total loss of the power supply
8.9 Output to fault warning routing equipment
9.5 Disablement of each address point
10 Test condition
Notes:
1. Scope of approval does not include the operation of the network functionality
2. This product approval does not constitute compliance with the fire detection and alarm system requirements of EN54-13.

Certificate No: 378a-(cl-3) to EN54-2: 1997 + A1: 2002 & EN54-4: 1997 + A1: 2002 + A2: 2006

Certificated Products		**LPCB Ref. No.**
JXD01020	JSB 1-2 Loop Analogue Addressable Control and Indicating Equipment	378q/01

Incorporating the following modules:
EFXD05001 xDetect Loop Card 1 Loop Protocol 800 (x2 Cards)
EFXD05082 xDetect CIE Backplane Small Enclosure
EFXD05053 xDetect CIE Int. Single PSE backplane
EFXD05080 xDetect CIE Panel Gateway Card
EFXD05030 xDetect Programmable IO Card
EFXD05020 xDetect Sounder Circuit Card 2 Outputs
36-A780 xDetect HMI
26-A470 xDetect HMI Screen Module
EFXD05051 xDetect CIE Int. Power Supply 150W

Incorporating the following optional modules:
EFXD05040 xDetect Network Card
Mechanical optional modules:
EFXD05091 xDetect CIE Door Small HMI Only

Certified with the following options with requirements from EN 54-2:
7.8 Output to fire alarm device(s)
7.9.1 Output to fire alarm routing equipment
7.9.2 Alarm confirmation input from fire alarm routing equipment7.10.1 Outputs to fire protection equipment - Output type A
7.10.2 Outputs to fire protection equipment - Output type B
7.10.3 Outputs to fire protection equipment - Output type C
7.11 Delays to outputs
7.12.3 Dependencies on more than one alarm signal - Type C
7.13 Alarm Counter
8.3 Fault signals from points

Certificated Products		LPCB Ref. No.
	8.4 Total loss of the power supply 8.9 Output to fault warning routing equipment 9.5 Disablement of each address point 10 Test condition *Notes:* *1. Scope of approval does not include the operation of the network functionality* *2. This product approval does not constitute compliance with the fire detection and alarm system requirements of EN54-13.*	
JXD01040	JSB 1-4 Loop Analogue Addressable Control and Indicating Equipment Incorporating the following modules: EFXD05001 xDetect Loop Card 1 Loop Protocol 800 (x4 Cards) EFXD05081 xDetect CIE Backplane Large Enclosure EFXD05052 xDetect CIE Int. Dual PSE backplane EFXD05080 xDetect CIE Panel Gateway Card EFXD05030 xDetect Programmable IO CardEFXD05020 xDetect Sounder Circuit Card 2 Outputs 36-A780 xDetect HMI 26-A470 xDetect HMI Screen Module EFXD05051 xDetect CIE Int. Power Supply 150W Incorporating the following optional modules: EFXD05040 xDetect Network Card Mechanical optional modules: EFXD05092 xDetect CIE Door Large HMI Only Certified with the following options with requirements from EN 54-2: 7.8 Output to fire alarm device(s) 7.9.1 Output to fire alarm routing equipment 7.9.2 Alarm confirmation input from fire alarm routing equipment 7.10.1 Outputs to fire protection equipment - Output type A 7.10.2 Outputs to fire protection equipment - Output type B 7.10.3 Outputs to fire protection equipment - Output type C 7.11 Delays to outputs 7.12.3 Dependencies on more than one alarm signal - Type C 7.13 Alarm Counter 8.3 Fault signals from points 8.4 Total loss of the power supply 8.9 Output to fault warning routing equipment 9.5 Disablement of each address point 10 Test condition *Notes:* *1. Scope of approval does not include the operation of the network functionality* *2. This product approval does not constitute compliance with the fire detection and alarm system requirements of EN54-13.*	378q/02

Certificate No: 378ab to EN 54-2:1997+A1:2006 & EN 54-4:1997 +A1:2002 + A2:2006

Control and indicating equipment

Certificated Products		LPCB Ref. No.
CF1100	1 Loop Intelligent Addressable Control and Indicating Equipment Incorporating the following modules; YPCB2305 Main Board YPCB2137 Display Board YPCB2209 Power Supply Board Certified with the following options with requirements from EN 54-2: 7.8 Output to fire alarm device(s) 7.9.1 Output to fire alarm routing equipment 7.11 Delays to outputs 7.12.3 Dependencies on more than one alarm signal -Type C 7.13 Alarm counter 8.9 Output to fault warning routing equipment 10 Test condition *Notes* *1. This product approval does not constitute compliance with the fire detection and alarm system requirements of EN54-13.*	378ab/01

Certificated Products		LPCB Ref. No.
DF6100	1 Loop Intelligent Addressable Control and Indicating Equipment (MENVIER Branded) Incorporating the following modules; YPCB2305 Main Board YPCB2137 Display Board YPCB2209 Power Supply Board Certified with the following options with requirements from EN 54-2: 7.8 Output to fire alarm device(s) 7.9.1 Output to fire alarm routing equipment 7.11 Delays to outputs 7.12.3 Dependencies on more than one alarm signal -Type C 7.13 Alarm counter 8.9 Output to fault warning routing equipment 10 Test condition *Notes* *1. This product approval does not constitute compliance with the fire detection and alarm system requirements of EN54-13.*	378ab/02
FX6100	1 Loop Intelligent Addressable Control and Indicating Equipment (JSB Branded) Incorporating the following modules; YPCB2305 Main Board YPCB2137 Display Board YPCB2209 Power Supply Board Certified with the following options with requirements from EN 54-2: 7.8 Output to fire alarm device(s) 7.9.1 Output to fire alarm routing equipment 7.11 Delays to outputs 7.12.3 Dependencies on more than one alarm signal -Type C 7.13 Alarm counter 8.9 Output to fault warning routing equipment 10 Test condition *Notes* *1. This product approval does not constitute compliance with the fire detection and alarm system requirements of EN54-13.*	378ab/03
CF1200	2 Loop Intelligent Addressable Control and Indicating Equipment Incorporating the following modules; YPCB2305 Main Board YPCB2137 Display Board YPCB2209 Power Supply Board Certified with the following options with requirements from EN 54-2: 7.8 Output to fire alarm device(s) 7.9.1 Output to fire alarm routing equipment 7.11 Delays to outputs 7.12.3 Dependencies on more than one alarm signal -Type C 7.13 Alarm counter 8.9 Output to fault warning routing equipment 10 Test condition *Notes* *1. This product approval does not constitute compliance with the fire detection and alarm system requirements of EN54-13.*	378ab/04
DF61002	2 Loop Intelligent Addressable Control and Indicating Equipment (MENVIER Branded) Incorporating the following modules; YPCB2305 Main Board YPCB2137 Display Board YPCB2209 Power Supply Board Certified with the following options with requirements from EN 54-2: 7.8 Output to fire alarm device(s) 7.9.1 Output to fire alarm routing equipment 7.11 Delays to outputs 7.12.3 Dependencies on more than one alarm signal -Type C 7.13 Alarm counter 8.9 Output to fault warning routing equipment 10 Test condition *Notes* *1. This product approval does not constitute compliance with the fire detection and alarm system requirements of EN54-13.*	378ab/05
FX61002	2 Loop Intelligent Addressable Control and Indicating Equipment (JSB Branded)	378ab/06

Certificated Products		LPCB Ref. No.
	Incorporating the following modules; YPCB2305 Main Board YPCB2137 Display Board YPCB2209 Power Supply Board Certified with the following options with requirements from EN 54-2: 7.8 Output to fire alarm device(s) 7.9.1 Output to fire alarm routing equipment 7.11 Delays to outputs 7.12.3 Dependencies on more than one alarm signal -Type C 7.13 Alarm counter 8.9 Output to fault warning routing equipment 10 Test condition *Notes* *1. This product approval does not constitute compliance with the fire detection and alarm system requirements of EN54-13.*	

A copy of the certificate, confirming the full scope of approval including notes relating to the superscript references in the above table, may be viewed online by clicking on the product name in the associated entry on www.RedBookLive.com

---

Eaton Electrical Systems Limited

Wheatley Hall Road, Doncaster, South Yorkshire DN2 4NB, United Kingdom
Tel: +44 (0)1302 303397 • Fax: +44 (0)1302 303397

Certificate No: 714w to EN54-2: 1997 + A1: 2006 & EN54-4: 1997 + A1: 2002 + A2: 2006

Control and indicating equipment

Certificated Products		LPCB Ref. No.
CF3000	Intelligent Analogue Addressable 1-4 Loop Control and Indicating Equipment *Incorporating the following units:* *ADF6 Back* *Assembled back box* *YPCB2153* *Motherboard PCB* *YPCB2147* *PSU PCB* *YPCB2148* *2 Loop Card (2 off)* *ADF6Screen* *Touch Screen* *ZPCB2185* *Complete Display + Micro PCB* *ADF6 DISPCOVER* *Display PCB Cover* *ADF6FACIA* *Front Moulding* *ADF6PRINTDOOR* *Printer Door Moulding* *BAT-NP12-12* *Batteries (2 off)* *ADF6HINGE* *Door Hinges* *Incorporating the following optional modules:* *ADF6OPFACIA* *Optional Anti Tamper Cover* *ADF6PRINTER* *Printer* *YPCB2187* *Fire Brigade Interface* *YPCB2137* *Micro Display card* *YPCB2319* *Sounder loop card* *YPCB2433* *FRE/FPE loop card* *YPCB2222* *Loop splitter card* *YPCB2145LED* *LED board* *YPCB2202* *Single channel Network card* *YPCBNCDRUL* *Dual channel Network card* *Certified with the following options with requirements from EN 54-2:* *7.8* *Output to fire alarm device(s)* *7.9.1* *Output to fire alarm routing equipment* *7.10.1* *Output to automatic fire protection equipment (Type A)* *7.10.2* *Output to automatic fire protection equipment (Type B)* *7.11* *Delays to outputs* *7.12.3* *Dependencies on more than one alarm signal (Type C)* *7.13* *Alarm counter* *8.9* *Output to fault warning routing equipment* *9.5* *Disablement of each address point* *10* *Test condition*	714w/01

Certificated Products		LPCB Ref. No.
	Notes: *1. The scope of approval does not include the network functionality.* *2. This product approval does not constitute compliance with the fire detection and alarm systems requirements of EN 54-13.*	
COP3000	Intelligent Analogue Addressable 1-4 Loop Control and Indicating Equipment *Incorporating the following units:* *ADF6 Back* — *Assembled back box* *YPCB2153* — *Motherboard PCB* *YPCB2147* — *PSU PCB* *YPCB2148* — *2 Loop Card (2 off)* *ADF6Screen* — *Touch Screen* *ZPCB2185* — *Complete Display + Micro PCB* *ADF6 DISPCOVER* — *Display PCB Cover* *ADF6FACIA* — *Front Moulding* *ADF6PRINTDOOR* — *Printer Door Moulding* *BAT-NP12-12* — *Batteries (2 off)* *ADF6HINGE* — *Door Hinges* *Incorporating the following optional modules:* *ADF6OPFACIA* — *Optional Anti Tamper Cover* *ADF6PRINTER* — *Printer* *YPCB2187* — *Fire Brigade Interface* *YPCB2137* — *Micro Display card* *YPCB2319* — *Sounder loop card* *YPCB2433* — *FRE/FPE loop card* *YPCB2222* — *Loop splitter card* *YPCB2145LED* — *LED board* *YPCB2202* — *Single channel Network card* *YPCBNCDRUL* — *Dual channel Network card* *Certified with the following options with requirements from EN 54-2:* *7.8* — *Output to fire alarm device(s)* *7.9.1* — *Output to fire alarm routing equipment* *7.10.1* — *Output to automatic fire protection equipment (Type A)* *7.10.2* — *Output to automatic fire protection equipment (Type B)* *7.11* — *Delays to outputs* *7.12.3* — *Dependencies on more than one alarm signal (Type C)* *7.13* — *Alarm counter* *8.9* — *Output to fault warning routing equipment* *9.5* — *Disablement of each address point* *10* — *Test condition* *Notes:* *1. The scope of approval does not include the network functionality.* *2. This product approval does not constitute compliance with the fire detection and alarm systems requirements of EN 54-13.*	714w/01
DF6000	Intelligent Analogue Addressable 1-4 Loop Control and Indicating Equipment *Incorporating the following units:* *ADF6 Back* — *Assembled back box* *YPCB2153* — *Motherboard PCB* *YPCB2147* — *PSU PCB* *YPCB2148* — *2 Loop Card (2 off)* *ADF6Screen* — *Touch Screen* *ZPCB2185* — *Complete Display + Micro PCB* *ADF6 DISPCOVER* — *Display PCB Cover* *ADF6FACIA* — *Front Moulding* *ADF6PRINTDOOR* — *Printer Door Moulding* *BAT-NP12-12* — *Batteries (2 off)* *ADF6HINGE* — *Door Hinges* *Incorporating the following optional modules:* *ADF6OPFACIA* — *Optional Anti Tamper Cover* *ADF6PRINTER* — *Printer* *YPCB2187* — *Fire Brigade Interface* *YPCB2137* — *Micro Display card* *YPCB2319* — *Sounder loop card* *YPCB2433* — *FRE/FPE loop card* *YPCB2222* — *Loop splitter card* *YPCB2145LED* — *LED board* *YPCB2202* — *Single channel Network card* *YPCBNCDRUL* — *Dual channel Network card*	714w/01

Certificated Products		LPCB Ref. No.
	Certified with the following options with requirements from EN 54-2: *7.8 Output to fire alarm device(s)* *7.9.1 Output to fire alarm routing equipment* *7.10.1 Output to automatic fire protection equipment (Type A)* *7.10.2 Output to automatic fire protection equipment (Type B)* *7.11 Delays to outputs* *7.12.3 Dependencies on more than one alarm signal (Type C)* *7.13 Alarm counter* *8.9 Output to fault warning routing equipment* *9.5 Disablement of each address point* *10 Test condition* *Notes:* *1. The scope of approval does not include the network functionality.* *2. This product approval does not constitute compliance with the fire detection and alarm systems requirements of EN 54-13.*	
FX6000	Intelligent Analogue Addressable 1-4 Loop Control and Indicating Equipment *Incorporating the following units:* *ADF6 Back Assembled back box* *YPCB2153 Motherboard PCB* *YPCB2147 PSU PCB* *YPCB2148 2 Loop Card (2 off)* *ADF6Screen Touch Screen* *ZPCB2185 Complete Display + Micro PCB* *ADF6 DISPCOVER Display PCB Cover* *ADF6FACIA Front Moulding* *ADF6PRINTDOOR Printer Door Moulding* *BAT-NP12-12 Batteries (2 off)* *ADF6HINGE Door Hinges* *Incorporating the following optional modules:* *ADF6OPFACIA Optional Anti Tamper Cover* *ADF6PRINTER Printer* *YPCB2187 Fire Brigade Interface* *YPCB2137 Micro Display card* *YPCB2319 Sounder loop card* *YPCB2433 FRE/FPE loop card* *YPCB2222 Loop splitter card* *YPCB2145LED LED board* *YPCB2202 Single channel Network card* *YPCBNCDRUL Dual channel Network card* *Certified with the following options with requirements from EN 54-2:* *7.8 Output to fire alarm device(s)* *7.9.1 Output to fire alarm routing equipment* *7.10.1 Output to automatic fire protection equipment (Type A)* *7.10.2 Output to automatic fire protection equipment (Type B)* *7.11 Delays to outputs* *7.12.3 Dependencies on more than one alarm signal (Type C)* *7.13 Alarm counter* *8.9 Output to fault warning routing equipment* *9.5 Disablement of each address point* *10 Test condition* *Notes:* *1. The scope of approval does not include the network functionality.* *2. This product approval does not constitute compliance with the fire detection and alarm systems requirements of EN 54-13.*	714w/01

A copy of the certificate, confirming the full scope of approval including notes relating to the superscript references in the above table, may be viewed online by clicking on the product name in the associated entry on www.RedBookLive.com

Certificate No: 714x-(cl-1) to EN 54-4:1997 + A1:2002 + A2:2006
EN 54-16:2008

Control and indicating equipment

Certificated Products		LPCB Ref. No.
Eaton Enterprise	Rack Mount VACIE	714x/01

Certificated Products **LPCB Ref. No.**

Incorporating any of the following modules:
VAR Series Routers:
EF-VAR4(EN54) Router 4x4 DSP - EN54
EF-VIPEDIA-12 Series Routers:
EF-VIPEDIA-12 VIPEDIA 12x12 IP Voice Alarm Router

EF-VIPEDIA-12 Optional modules:
EF-VIPEDIA-NET VIPEDIA-12 Network Card
EF-VIPEDIA-NET-4GB VIPEDIA-12 Network Card with 4GB Audio Storage Inc. VIPA-OS
Adaptors:
EF-BOA01 RJ45 DIN Terminal Breakout Adaptor - Single Port - With Terminations
EF-BOA02 RJ45 DIN Terminal Breakout Adaptor - Four Port - Straight Through

EF-V2000 Amplifier Frame: EF-V2000 Amplifier frame for housing D series amplifiers and amplifier interfaces

D Series amplifiers:
EF-D500 Amplifier Module 500w
EF-D150 Amplifier Module 150w

Amplifier interfaces for EF-V2000 mainframe:
EF-LSZDC Dual Line surveillance interface
EF-V2000-STBY V2000 Standby Interface

EF-V400 Amplifier frame: EF-V400 Amplifier frame for housing M series amplifiers and amplifier interfaces

Power supply:
EF-BPC65 Battery Charger with Mounting Tray - 65ah - Inc. Cables and Breakers
EF-BPC130 Battery Charger with Mounting Tray - 130ah - Inc. Cables and Breakers

Optional modules:
EF-EMS01 (MK2) Emergency microphone station - All call
EF-EMS01-EC(MK2) Emergency microphone station - All call with euro-cylinder lock
EF-EMS10 Emergency microphone station - 10 Button
EF-EMS10-EC Emergency microphone station - 10 Button with euro-cylinder lock
EF-EMS20 Emergency microphone station - 20 Button
EF-EMS20-EC Emergency microphone station - 20 Button with euro-cylinder lock
EF-EMS50 Emergency microphone station - 50 Button
EF-EMX30 Expansion module for EF-EMS20 - 30 Button

EF-MPS01-F Desk paging and emergency microphone - 1 Button Fist mic
EF-MPS01-G Desk paging and emergency microphone - 1 Button Gooseneck mic
EF-MPS10-F Desk paging and emergency microphone - 10 Button Fist mic
EF-MPS10-G Desk paging and emergency microphone - 10 Button Gooseneck mic
EF-MPS20-F Desk paging and emergency microphone - 20 Button Fist mic
EF-MPS20-G Desk paging and emergency microphone - 20 Button Gooseneck mic
EF-MPS30-F Desk paging and emergency microphone - 30 Button Fist mic
EF-MPS30-G Desk paging and emergency microphone - 30 Button Gooseneck mic
EF-MPS40-F Desk paging and emergency microphone - 40 Button Fist mic
EF-MPS40-G Desk paging and emergency microphone - 40 Button Gooseneck mic
EF-MPS50-F Desk paging and emergency microphone - 50 Button Fist mic
EF-MPS50-G Desk paging and emergency microphone - 50 Button Gooseneck mic
EF-MPX10 Microphone expansion module for EF-MPS01 - 10 Button
EF-MPS01-MB Wall mount bracket kit for EF-MPS01
EF-MPX10-MB Wall mount bracket kit for EF-MPS10 - EF-MPS20

Certificated Products		LPCB Ref. No.
	Certified with the following options with requirements from EN54 Part 16: 7.6.2 Manual silencing of voice alarm condition 7.7.2 Manual reset of the voice alarm condition 7.9 Voice alarm condition output 8.3 Indication of faults related to the transmission path to the CIE 8.4 Indication of faults related to voice alarm zones 10 Voice Alarm Manual control (Except on EF-VAR routers) 12 Emergency microphone(s) 13.14 Redundant power amplifiers	
EFDAU2000	Wall Mounting VACIE	714x/02
	Incorporating the following: EFDAU2000 All-in-one Wall Mount VACIEfor D Series amplifiers and amplifier interfaces Optional modules: EF-D500 Amplifier Module 500w EF-D150 Amplifier Module 150w EF-LSZDC Dual Line surveillance interface EF-V2000-STBY V2000 Standby Interface EF-BMB01 RS485 Interfaced Analogue and Digital I/O Expansion Unit EF-VIPEDIA-12 Optional Modules: EF-VIPEDIA-NET Vipedia-12 Network Card EF-VIPEDIA-NET-4GB Vipedia-12 Network Card with 4GB Audio Storage Inc. VIPA-OS Adaptors: EF-BOA01 RJ45 DIN Terminal Breakout Adaptor - Single Port - With Terminations EF-BOA02 RJ45 DIN Terminal Breakout Adaptor - Four Port - Straight Through Optional Emergency Microphones: EF-EMS01 (MK2) Emergency microphone station - All call EF-EMS01-EC(MK2) Emergency microphone station - All call with euro-cylinder lock EF-EMS10 Emergency microphone station - 10 Button EF-EMS10-EC Emergency microphone station - 10 Button with euro-cylinder lock EF-EMS20 Emergency microphone station - 20 Button EF-EMS20-EC Emergency microphone station - 20 Button with euro-cylinder lock EF-EMS50 Emergency microphone station - 50 Button EF-EMX30 Expansion module for EF-EMS20 - 30 Button EF-MPS01-F Desk paging and emergency microphone - 1 Button Fist mic EF-MPS01-G Desk paging and emergency microphone - 1 Button Gooseneck mic EF-MPS10-F Desk paging and emergency microphone - 10 Button Fist mic EF-MPS10-G Desk paging and emergency microphone - 10 Button Gooseneck mic EF-MPS20-F Desk paging and emergency microphone - 20 Button Fist mic EF-MPS20-G Desk paging and emergency microphone - 20 Button Gooseneck mic EF-MPS30-F Desk paging and emergency microphone - 30 Button Fist mic EF-MPS30-G Desk paging and emergency microphone - 30 Button Gooseneck mic EF-MPS40-F Desk paging and emergency microphone - 40 Button Fist mic EF-MPS40-G Desk paging and emergency microphone - 40 Button Gooseneck mic EF-MPS50-F Desk paging and emergency microphone - 50 Button Fist mic EF-MPS50-G Desk paging and emergency microphone - 50 Button Gooseneck mic EF-MPX10 Microphone expansion module for EF-MPS01 - 10 Button EF-MPS01-MB Wall mount bracket kit for EF-MPS01 EF-MPX10-MB Wall mount bracket kit for EF-MPS10 - EF-MPS20 Certified with the following options with requirements from EN54 Part 16: 7.6.2 Manual silencing of voice alarm condition 7.7.2 Manual reset of the voice alarm condition 7.9 Voice alarm condition output 8.3 Indication of faults related to the transmission path to the CIE 8.4 Indication of faults related to voice alarm zones 10.0 Voice Alarm Manual control 12.0 Emergency microphone(s) 13.14 Redundant power amplifiers	

A copy of the certificate, confirming the full scope of approval including notes relating to the superscript references in the above table, may be viewed online by clicking on the product name in the associated entry on www.RedBookLive.com

Certificate No: 714x-(cl-2) to EN 54-4:1997 + A1:2002 + A2:2006
EN 54-16:2008

Control and indicating equipment

Certificated Products		**LPCB Ref. No.**
Eaton Cooper Enterprise	Rack Mount VACIE	714x/01

Incorporating any of the following modules:
VAR Series Routers:
EFC-VAR4(EN54) Router 4x4 DSP - EN54
EFC-VIPEDIA-12 Series Routers:
EFC-VIPEDIA-12 VIPEDIA 12x12 IP Voice Alarm Router

EFC-VIPEDIA-12 Optional modules:
EFC-VIPEDIA-NET VIPEDIA-12 Network Card
EFC-VIPEDIA-NET-4GB VIPEDIA-12 Network Card with 4GB Audio Storage Inc. VIPA-OS
Adaptors:
EFC-BOA01 RJ45 DIN Terminal Breakout Adaptor - Single Port - With Terminations
EFC-BOA02 RJ45 DIN Terminal Breakout Adaptor - Four Port - Straight Through

EFC-V2000 Amplifier Frame: EFC-V2000 Amplifier frame for housing D series amplifiers and amplifier interfaces

D Series amplifiers:
EFC-D500 Amplifier Module 500w
EFC-D150 Amplifier Module 150w

Amplifier interfaces for EFC-V2000 mainframe:
EFC-LSZDC Dual Line surveillance interface
EFC-V2000-STBY V2000 Standby Interface

EFC-V400 Amplifier frame: EFC-V400 Amplifier frame for housing M series amplifiers and amplifier interfaces

Power supply:
EFC-BPC65 Battery Charger with Mounting Tray - 65ah - Inc. Cables and Breakers
EFC-BPC130 Battery Charger with Mounting Tray - 130ah - Inc. Cables and Breakers

Optional modules:
EFC-EMS01 (MK2) Emergency microphone station - All call
EFC-EMS01-EC(MK2) Emergency microphone station - All call with euro-cylinder lock
EFC-EMS10 Emergency microphone station - 10 Button
EFC-EMS10-EC Emergency microphone station - 10 Button with euro-cylinder lock
EFC-EMS20 Emergency microphone station - 20 Button
EFC-EMS20-EC Emergency microphone station - 20 Button with euro-cylinder lock
EFC-EMS50 Emergency microphone station - 50 Button
EFC-EMX30 Expansion module for EFC-EMS20 - 30 Button

EFC-MPS01-F Desk paging and emergency microphone - 1 Button Fist mic
EFC-MPS01-G Desk paging and emergency microphone - 1 Button Gooseneck mic
EFC-MPS10-F Desk paging and emergency microphone - 10 Button Fist mic
EFC-MPS10-G Desk paging and emergency microphone - 10 Button Gooseneck mic
EFC-MPS20-F Desk paging and emergency microphone - 20 Button Fist mic
EFC-MPS20-G Desk paging and emergency microphone - 20 Button Gooseneck mic
EFC-MPS30-F Desk paging and emergency microphone - 30 Button Fist mic
EFC-MPS30-G Desk paging and emergency microphone - 30 Button Gooseneck mic
EFC-MPS40-F Desk paging and emergency microphone - 40 Button Fist mic
EFC-MPS40-G Desk paging and emergency microphone - 40 Button Gooseneck mic
EFC-MPS50-F Desk paging and emergency microphone - 50 Button Fist mic
EFC-MPS50-G Desk paging and emergency microphone - 50 Button Gooseneck mic
EFC-MPX10 Microphone expansion module for EFC-MPS01 - 10

Certificated Products		LPCB Ref. No.
	Button EFC-MPS01-MB Wall mount bracket kit for EFC-MPS01 EFC-MPX10-MB Wall mount bracket kit for EFC-MPS10 - EFC-MPS20 Certified with the following options with requirements from EN54 Part 16: 7.6.2 Manual silencing of voice alarm condition 7.7.2 Manual reset of the voice alarm condition 7.9 Voice alarm condition output 8.3 Indication of faults related to the transmission path to the CIE 8.4 Indication of faults related to voice alarm zones 10 Voice Alarm Manual control (Except on EFC-VAR routers) 12 Emergency microphone(s) 13.14 Redundant power amplifiers	
EFDAU2000	Wall Mounting VACIE Incorporating the following: EFCDAU2000 All-in-one Wall Mount VACIEfor D Series amplifiers and amplifier interfaces Optional modules: EFC-D500 Amplifier Module 500w EFC-D150 Amplifier Module 150w EFC-LSZDC Dual Line surveillance interface EFC-V2000-STBY V2000 Standby Interface EFC-BMB01 RS485 Interfaced Analogue and Digital I/O Expansion Unit EFC-VIPEDIA-12 Optional Modules: EFC-VIPEDIA-NET Vipedia-12 Network Card EFC-VIPEDIA-NET-4GB Vipedia-12 Network Card with 4GB Audio Storage Inc. VIPA-OS Adaptors: EFC-BOA01 RJ45 DIN Terminal Breakout Adaptor - Single Port - With Terminations EFC-BOA02 RJ45 DIN Terminal Breakout Adaptor - Four Port - Straight Through Optional Emergency Microphones: EFC-EMS01 (MK2) Emergency microphone station - All call EFC-EMS01-EC(MK2) Emergency microphone station - All call with euro-cylinder lock EFC-EMS10 Emergency microphone station - 10 Button EFC-EMS10-EC Emergency microphone station - 10 Button with euro-cylinder lock EFC-EMS20 Emergency microphone station - 20 Button EFC-EMS20-EC Emergency microphone station - 20 Button with euro-cylinder lock EFC-EMS50 Emergency microphone station - 50 Button EFC-EMX30 Expansion module for EFC-EMS20 - 30 Button EFC-MPS01-F Desk paging and emergency microphone - 1 Button Fist mic EFC-MPS01-G Desk paging and emergency microphone - 1 Button Gooseneck mic EFC-MPS10-F Desk paging and emergency microphone - 10 Button Fist mic EFC-MPS10-G Desk paging and emergency microphone - 10 Button Gooseneck mic EFC-MPS20-F Desk paging and emergency microphone - 20 Button Fist mic EFC-MPS20-G Desk paging and emergency microphone - 20 Button Gooseneck mic EFC-MPS30-F Desk paging and emergency microphone - 30 Button Fist mic EFC-MPS30-G Desk paging and emergency microphone - 30 Button Gooseneck mic EFC-MPS40-F Desk paging and emergency microphone - 40 Button Fist mic EFC-MPS40-G Desk paging and emergency microphone - 40 Button Gooseneck mic EFC-MPS50-F Desk paging and emergency microphone - 50 Button Fist mic EFC-MPS50-G Desk paging and emergency microphone - 50 Button Gooseneck mic EFC-MPX10 Microphone expansion module for EFC-MPS01 - 10 Button EFC-MPS01-MB Wall mount bracket kit for EFC-MPS01 EFC-MPX10-MB Wall mount bracket kit for EFC-MPS10 - EFC-MPS20 Certified with the following options with requirements from EN54 Part 16: 7.6.2 Manual silencing of voice alarm condition 7.7.2 Manual reset of the voice alarm condition 7.9 Voice alarm condition output 8.3 Indication of faults related to the transmission path to the CIE 8.4 Indication of faults related to voice alarm zones 10.0 Voice Alarm Manual control	714x/02

Certificated Products		LPCB Ref. No.
12.0	Emergency microphone(s)	
13.14	Redundant power amplifiers	

A copy of the certificate, confirming the full scope of approval including notes relating to the superscript references in the above table, may be viewed online by clicking on the product name in the associated entry on www.RedBookLive.com

Certificate No: 714x-(cl-3) to EN 54-4:1997 + A1:2002 + A2:2006
EN 54-16:2008

Certificated Products		LPCB Ref. No.
Eaton JSB Enterprise	Rack Mount VACIE	714x/01

Incorporating any of the following modules:
VAR Series Routers:
EFJ-VAR4(EN54) Router 4x4 DSP - EN54
EFJ-VIPEDIA-12 Series Routers:
EFJ-VIPEDIA-12 VIPEDIA 12x12 IP Voice Alarm Router

EFJ-VIPEDIA-12 Optional modules:
EFJ-VIPEDIA-NET VIPEDIA-12 Network Card
EFJ-VIPEDIA-NET-4GB VIPEDIA-12 Network Card with 4GB Audio Storage Inc. VIPA-OS
Adaptors:
EFJ-BOA01 RJ45 DIN Terminal Breakout Adaptor - Single Port - With Terminations
EFJ-BOA02 RJ45 DIN Terminal Breakout Adaptor - Four Port - Straight Through

EFJ-V2000 Amplifier Frame: EFJ-V2000 Amplifier frame for housing D series amplifiers and amplifier interfaces

D Series amplifiers:
EFJ-D500 Amplifier Module 500w
EFJ-D150 Amplifier Module 150w

Amplifier interfaces for EFJ-V2000 mainframe:
EFJ-LSZDC Dual Line surveillance interface
EFJ-V2000-STBY V2000 Standby Interface

EFJ-V400 Amplifier frame: EFJ-V400 Amplifier frame for housing M series amplifiers and amplifier interfaces

Power supply:
EFJ-BPC65 Battery Charger with Mounting Tray - 65ah - Inc. Cables and Breakers
EFJ-BPC130 Battery Charger with Mounting Tray - 130ah - Inc. Cables and Breakers

Optional modules:
EFJ-EMS01 (MK2) Emergency microphone station - All call
EFJ-EMS01-EC(MK2) Emergency microphone station - All call with euro-cylinder lock
EFJ-EMS10 Emergency microphone station - 10 Button
EFJ-EMS10-EC Emergency microphone station - 10 Button with euro-cylinder lock
EFJ-EMS20 Emergency microphone station - 20 Button
EFJ-EMS20-EC Emergency microphone station - 20 Button with euro-cylinder lock
EFJ-EMS50 Emergency microphone station - 50 Button
EFJ-EMX30 Expansion module for EFJ-EMS20 - 30 Button

EFJ-MPS01-F Desk paging and emergency microphone - 1 Button Fist mic
EFJ-MPS01-G Desk paging and emergency microphone - 1 Button Gooseneck mic
EFJ-MPS10-F Desk paging and emergency microphone - 10 Button Fist mic
EFJ-MPS10-G Desk paging and emergency microphone - 10 Button Gooseneck mic
EFJ-MPS20-F Desk paging and emergency microphone - 20 Button Fist mic
EFJ-MPS20-G Desk paging and emergency microphone - 20 Button Gooseneck mic
EFJ-MPS30-F Desk paging and emergency microphone - 30 Button Fist mic

Certificated Products		LPCB Ref. No.
	EFJ-MPS30-G Desk paging and emergency microphone - 30 Button Gooseneck mic	
	EFJ-MPS40-F Desk paging and emergency microphone - 40 Button Fist mic	
	EFJ-MPS40-G Desk paging and emergency microphone - 40 Button Gooseneck mic	
	EFJ-MPS50-F Desk paging and emergency microphone - 50 Button Fist mic	
	EFJ-MPS50-G Desk paging and emergency microphone - 50 Button Gooseneck mic	
	EFJ-MPX10 Microphone expansion module for EFJ-MPS01 - 10 Button	
	EFJ-MPS01-MB Wall mount bracket kit for EFJ-MPS01	
	EFJ-MPX10-MB Wall mount bracket kit for EFJ-MPS10 - EFJ-MPS20	
	Certified with the following options with requirements from EN54 Part 16: 7.6.2 Manual silencing of voice alarm condition 7.7.2 Manual reset of the voice alarm condition 7.9 Voice alarm condition output 8.3 Indication of faults related to the transmission path to the CIE 8.4 Indication of faults related to voice alarm zones 10 Voice Alarm Manual control (Except on EFJ-VAR routers) 12 Emergency microphone(s) 13.14 Redundant power amplifiers	
EFJDAU2000	Wall Mounting VACIE	714x/02
	Incorporating the following: EFJDAU2000 All-in-one Wall Mount VACIEfor D Series amplifiers and amplifier interfaces Optional modules: EFJ-D500 Amplifier Module 500w EFJ-D150 Amplifier Module 150w EFJ-LSZDC Dual Line surveillance interface EFJ-V2000-STBY V2000 Standby Interface EFJ-BMB01 RS485 Interfaced Analogue and Digital I/O Expansion Unit EFJ-VIPEDIA-12 Optional Modules: EFJ-VIPEDIA-NET Vipedia-12 Network Card EFJ-VIPEDIA-NET-4GB Vipedia-12 Network Card with 4GB Audio Storage Inc. VIPA-OS Adaptors: EFJ-BOA01 RJ45 DIN Terminal Breakout Adaptor - Single Port - With Terminations EFJ-BOA02 RJ45 DIN Terminal Breakout Adaptor - Four Port - Straight Through Optional Emergency Microphones: EFJ-EMS01 (MK2) Emergency microphone station - All call EFJ-EMS01-EC(MK2) Emergency microphone station - All call with euro-cylinder lock EFJ-EMS10 Emergency microphone station - 10 Button EFJ-EMS10-EC Emergency microphone station - 10 Button with euro-cylinder lock EFJ-EMS20 Emergency microphone station - 20 Button EFJ-EMS20-EC Emergency microphone station - 20 Button with euro-cylinder lock EFJ-EMS50 Emergency microphone station - 50 Button EFJ-EMX30 Expansion module for EFJ-EMS20 - 30 Button EFJ-MPS01-F Desk paging and emergency microphone - 1 Button Fist mic EFJ-MPS01-G Desk paging and emergency microphone - 1 Button Gooseneck mic EFJ-MPS10-F Desk paging and emergency microphone - 10 Button Fist mic EFJ-MPS10-G Desk paging and emergency microphone - 10 Button Gooseneck mic EFJ-MPS20-F Desk paging and emergency microphone - 20 Button Fist mic EFJ-MPS20-G Desk paging and emergency microphone - 20 Button Gooseneck mic EFJ-MPS30-F Desk paging and emergency microphone - 30 Button Fist mic EFJ-MPS30-G Desk paging and emergency microphone - 30 Button Gooseneck mic EFJ-MPS40-F Desk paging and emergency microphone - 40 Button Fist mic EFJ-MPS40-G Desk paging and emergency microphone - 40 Button Gooseneck mic EFJ-MPS50-F Desk paging and emergency microphone - 50 Button Fist mic EFJ-MPS50-G Desk paging and emergency microphone - 50 Button Gooseneck mic	

Certificated Products		LPCB Ref. No.
	EFJ-MPX10 Microphone expansion module for EFJ-MPS01 - 10 Button EFJ-MPS01-MB Wall mount bracket kit for EFJ-MPS01 EFJ-MPX10-MB Wall mount bracket kit for EFJ-MPS10 - EFJ-MPS20 Certified with the following options with requirements from EN54 Part 16: 7.6.2 Manual silencing of voice alarm condition 7.7.2 Manual reset of the voice alarm condition 7.9 Voice alarm condition output 8.3 Indication of faults related to the transmission path to the CIE 8.4 Indication of faults related to voice alarm zones 10.0 Voice Alarm Manual control 12.0 Emergency microphone(s) 13.14 Redundant power amplifiers	

A copy of the certificate, confirming the full scope of approval including notes relating to the superscript references in the above table, may be viewed online by clicking on the product name in the associated entry on www.RedBookLive.com

Certificate No: 714x-(cl-4) to EN 54-4:1997 + A1:2002 + A2:2006
EN 54-16:2008

Certificated Products		LPCB Ref. No.
Eaton Menvier Enterprise	Rack Mount VACIE Incorporating any of the following modules: VAR Series Routers: EFM-VAR4(EN54) Router 4x4 DSP - EN54 EFM-VIPEDIA-12 Series Routers: EFM-VIPEDIA-12 VIPEDIA 12x12 IP Voice Alarm Router EFM-VIPEDIA-12 Optional modules: EFM-VIPEDIA-NET VIPEDIA-12 Network Card EFM-VIPEDIA-NET-4GB VIPEDIA-12 Network Card with 4GB Audio Storage Inc. VIPA-OS Adaptors: EFM-BOA01 RJ45 DIN Terminal Breakout Adaptor - Single Port - With Terminations EFM-BOA02 RJ45 DIN Terminal Breakout Adaptor - Four Port - Straight Through EFM-V2000 Amplifier Frame: EFM-V2000 Amplifier frame for housing D series amplifiers and amplifier interfaces D Series amplifiers: EFM-D500 Amplifier Module 500w EFM-D150 Amplifier Module 150w Amplifier interfaces for EFM-V2000 mainframe: EFM-LSZDC Dual Line surveillance interface EFM-V2000-STBY V2000 Standby Interface EFM-V400 Amplifier frame: EFM-V400 Amplifier frame for housing M series amplifiers and amplifier interfaces Power supply: EFM-BPC65 Battery Charger with Mounting Tray - 65ah - Inc. Cables and Breakers EFM-BPC130 Battery Charger with Mounting Tray - 130ah - Inc. Cables and Breakers Optional modules: EFM-EMS01 (MK2) Emergency microphone station - All call EFM-EMS01-EC(MK2) Emergency microphone station - All call with euro-cylinder lock EFM-EMS10 Emergency microphone station - 10 Button EFM-EMS10-EC Emergency microphone station - 10 Button with euro-cylinder lock EFM-EMS20 Emergency microphone station - 20 Button EFM-EMS20-EC Emergency microphone station - 20 Button with euro-cylinder lock EFM-EMS50 Emergency microphone station - 50 Button EFM-EMX30 Expansion module for EFM-EMS20 - 30 Button	714x/01

Certificated Products		LPCB Ref. No.
	EFM-MPS01-F Desk paging and emergency microphone - 1 Button Fist mic EFM-MPS01-G Desk paging and emergency microphone - 1 Button Gooseneck mic EFM-MPS10-F Desk paging and emergency microphone - 10 Button Fist mic EFM-MPS10-G Desk paging and emergency microphone - 10 Button Gooseneck mic EFM-MPS20-F Desk paging and emergency microphone - 20 Button Fist mic EFM-MPS20-G Desk paging and emergency microphone - 20 Button Gooseneck mic EFM-MPS30-F Desk paging and emergency microphone - 30 Button Fist mic EFM-MPS30-G Desk paging and emergency microphone - 30 Button Gooseneck mic EFM-MPS40-F Desk paging and emergency microphone - 40 Button Fist mic EFM-MPS40-G Desk paging and emergency microphone - 40 Button Gooseneck mic EFM-MPS50-F Desk paging and emergency microphone - 50 Button Fist mic EFM-MPS50-G Desk paging and emergency microphone - 50 Button Gooseneck mic EFM-MPX10 Microphone expansion module for EFM-MPS01 - 10 Button EFM-MPS01-MB Wall mount bracket kit for EFM-MPS01 EFM-MPX10-MB Wall mount bracket kit for EFM-MPS10 - EFM-MPS20 Certified with the following options with requirements from EN54 Part 16: 7.6.2 Manual silencing of voice alarm condition 7.7.2 Manual reset of the voice alarm condition 7.9 Voice alarm condition output 8.3 Indication of faults related to the transmission path to the CIE 8.4 Indication of faults related to voice alarm zones 10 Voice Alarm Manual control (Except on EFM-VAR routers) 12 Emergency microphone(s) 13.14 Redundant power amplifiers	
EFMDAU2000	Wall Mounting VACIE Incorporating the following: EFMDAU2000 All-in-one Wall Mount VACIEfor D Series amplifiers and amplifier interfaces Optional modules: EFM-D500 Amplifier Module 500w EFM-D150 Amplifier Module 150w EFM-LSZDC Dual Line surveillance interface EFM-V2000-STBY V2000 Standby Interface EFM-BMB01 RS485 Interfaced Analogue and Digital I/O Expansion Unit EFM-VIPEDIA-12 Optional Modules: EFM-VIPEDIA-NET Vipedia-12 Network Card EFM-VIPEDIA-NET-4GB Vipedia-12 Network Card with 4GB Audio Storage Inc. VIPA-OS Adaptors: EFM-BOA01 RJ45 DIN Terminal Breakout Adaptor - Single Port - With Terminations EFM-BOA02 RJ45 DIN Terminal Breakout Adaptor - Four Port - Straight Through Optional Emergency Microphones: EFM-EMS01 (MK2) Emergency microphone station - All call EFM-EMS01-EC(MK2) Emergency microphone station - All call with euro-cylinder lock EFM-EMS10 Emergency microphone station - 10 Button EFM-EMS10-EC Emergency microphone station - 10 Button with euro-cylinder lock EFM-EMS20 Emergency microphone station - 20 Button EFM-EMS20-EC Emergency microphone station - 20 Button with euro-cylinder lock EFM-EMS50 Emergency microphone station - 50 Button EFM-EMX30 Expansion module for EFM-EMS20 - 30 Button EFM-MPS01-F Desk paging and emergency microphone - 1 Button Fist mic EFM-MPS01-G Desk paging and emergency microphone - 1 Button Gooseneck mic EFM-MPS10-F Desk paging and emergency microphone - 10 Button Fist mic EFM-MPS10-G Desk paging and emergency microphone - 10 Button Gooseneck mic EFM-MPS20-F Desk paging and emergency microphone - 20 Button Fist mic EFM-MPS20-G Desk paging and emergency microphone - 20 Button Gooseneck mic EFM-MPS30-F Desk paging and emergency microphone - 30 Button Fist mic EFM-MPS30-G Desk paging and emergency microphone - 30 Button Gooseneck	71x/02

Certificated Products		LPCB Ref. No.
	mic EFM-MPS40-F Desk paging and emergency microphone - 40 Button Fist mic EFM-MPS40-G Desk paging and emergency microphone - 40 Button Gooseneck mic EFM-MPS50-F Desk paging and emergency microphone - 50 Button Fist mic EFM-MPS50-G Desk paging and emergency microphone - 50 Button Gooseneck mic EFM-MPX10 Microphone expansion module for EFM-MPS01 - 10 Button EFM-MPS01-MB Wall mount bracket kit for EFM-MPS01 EFM-MPX10-MB Wall mount bracket kit for EFM-MPS10 - EFM-MPS20 Certified with the following options with requirements from EN54 Part 16: 7.6.2 Manual silencing of voice alarm condition 7.7.2 Manual reset of the voice alarm condition 7.9 Voice alarm condition output 8.3 Indication of faults related to the transmission path to the CIE 8.4 Indication of faults related to voice alarm zones 10.0 Voice Alarm Manual control 12.0 Emergency microphone(s) 13.14 Redundant power amplifiers	

A copy of the certificate, confirming the full scope of approval including notes relating to the superscript references in the above table, may be viewed online by clicking on the product name in the associated entry on www.RedBookLive.com

Certificate No: 714h to EN54-2: 1997 + A1: 2006 & EN54-4: 1997 + A1: 2002 + A2: 2006

Certificated Products		LPCB Ref. No.
CF2000	Analogue Addressable 2 Loop Control and Indicating Equipment Incorporating the following units: PR202-50-2206 Main motherboard PR202-50-2205 Display board PR202-50-2209 Power supply board Certified with the following options with requirements from EN 54-2: 7.8 Output to fire alarm device(s) 7.9.1 Output to fire alarm routing equipment 7.10.1 Output to automatic fire protection equipment (Type A) 7.11 Delays to outputs 7.12.3 Dependencies on more than one alarm signal (Type C) 7.13 Alarm counter 8.9 Output to fault warning routing equipment 9.5 Disablement of each address point 10 Test condition *Notes:* *1. The scope of approval does not include the network functionality.* *2. This product approval does not constitute compliance with the fire detection and alarm systems requirements of EN 54-13.*	714h/02
DF2000	Analogue Addressable 2 Loop Control and Indicating Equipment Incorporating the following units: PR202-50-2206 Main motherboard PR202-50-2205 Display board PR202-50-2209 Power supply board Certified with the following options with requirements from EN 54-2: 7.8 Output to fire alarm device(s) 7.9.1 Output to fire alarm routing equipment 7.10.1 Output to automatic fire protection equipment (Type A) 7.11 Delays to outputs 7.12.3 Dependencies on more than one alarm signal (Type C) 7.13 Alarm counter 8.9 Output to fault warning routing equipment 9.5 Disablement of each address point 10 Test condition *Notes:* *1. The scope of approval does not include the network functionality.* *2. This product approval does not constitute compliance with the fire detection and alarm systems requirements of EN 54-13.*	714h/02
FX2000	Analogue Addressable 2 Loop Control and Indicating Equipment	714h/02

Certificated Products		LPCB Ref. No.
	Incorporating the following units: PR202-50-2206 Main motherboard PR202-50-2205 Display board PR202-50-2209 Power supply board Certified with the following options with requirements from EN 54-2: 7.8 Output to fire alarm device(s) 7.9.1 Output to fire alarm routing equipment 7.10.1 Output to automatic fire protection equipment (Type A) 7.11 Delays to outputs 7.12.3 Dependencies on more than one alarm signal (Type C) 7.13 Alarm counter 8.9 Output to fault warning routing equipment 9.5 Disablement of each address point 10 Test condition *Notes:* *1. The scope of approval does not include the network functionality.* *2. This product approval does not constitute compliance with the fire detection and alarm systems requirements of EN 54-13.*	

Elite Security Products (ESP)

Unit 7, Target Park, Shawbank Road, Redditch, Birmingham B98 8YN, United Kingdom
Tel: +44 (0)1527 515150
E-mail: info@espuk.com • Website: https://www.espuk.com/

Certificate No: 331q-(cl-1) to EN54-2: 1997 + A1: 2006 & EN54-4: 1997 + A1: 2002 + A2: 2006

Control and indicating equipment

Certificated Products		LPCB Ref. No.
MAGDUO2	2 Zone Twin Wire Control and Indicating Equipment Incorporating the following units: 10-0067 Main Processor Card. Certified with the following options with requirements from EN54-2: 7.8 Output to fire alarm devices 7.10.1 Output type A to fire protection equipment 7.11 Delays to outputs 7.12.1 Type A dependency on more than one alarm signal 10 Test condition. Note: 1. This product approval does not constitute compliance with the fire detection and alarm systems requirements of EN 54-13	331q/06
MAGDUO4	4 Zone Twin Wire Control and Indicating Equipment Incorporating the following units: 10-0067 Main Processor Card. Certified with the following options with requirements from EN54-2: 7.8 Output to fire alarm devices 7.10.1 Output type A to fire protection equipment 7.11 Delays to outputs 7.12.1 Type A dependency on more than one alarm signal 10 Test condition. Note: 1. This product approval does not constitute compliance with the fire detection and alarm systems requirements of EN 54-13	331q/07
MAGDUO8	8 Zone Twin Wire Control and Indicating Equipment Incorporating the following units: 10-0067 Main Processor Card 10-0087 4 Zone Expansion Card	331q/08

Certificated Products		LPCB Ref. No.
	Certified with the following options with requirements from EN54-2: 7.8 Output to fire alarm devices 7.10.1 Output type A to fire protection equipment 7.11 Delays to outputs 7.12.1 Type A dependency on more than one alarm signal 10 Test condition. Note: 1. This product approval does not constitute compliance with the fire detection and alarm systems requirements of EN 54-13	

A copy of the certificate, confirming the full scope of approval including notes relating to the superscript references in the above table, may be viewed online by clicking on the product name in the associated entry on www.RedBookLive.com

---

Eurotech Fire Systems Limited

19/20 Stratfield Park, Elettra Avenue, Waterlooville, Hampshire PO7 7XN, United Kingdom
Tel: +44 (0)203 141 0999 • Fax: +44 (0)239 225 2554
E-mail: MICHELLE.AGIUS@eurotechfire.com • Website: www.eurotechfire.com

Certificate No: 1213b to EN 54-2: 1997 + A1: 2006, EN 54-4: 1997 + A1: 2002 + A2: 2006 and EN 54-4: 1998 + A1: 2002 + A2:2006

Control and indicating equipment

Certificated Products		LPCB Ref. No.
510-0108A Odyssey Plus	One loop, 32 Zone analogue addressable control and indicating equipment. Incorporating as modular units: BRD68BPSC4-A FFP Brigade & Power supply control board (8610) BRD86DLTB4-A FFP Dual loop termination board (8610) BRD86FPB5-B FFP Front panel board EN54 (8610) BRD86MBA4-A FFP Main board LCD (8610) BRD86MCPU4-B FFP Main 64MB CPU card (8610) BRD43ZAMC2-A 32 Zone alarm MIMIC internal card (4310) PSU1888 Power supply 5A (8610) Optional Modules: BRD43EZC2-A 8 Zone conventional module (4310) BRD43ZAMC2-A 32 Zone alarm MIMIC internal card (4310) Certified with the following options with requirements from EN 54-2: 7.8 Output to fire alarm devices 7.9.1 Output to fire alarm routing equipment 7.9.2 Alarm confirmation input from fire alarm routine equipment 7.11 Delay to outputs 7.12.1 Dependencies on more than one alarm signal Type A 7.12.2 Dependencies on more than one alarm signal Type B 7.12.3 Dependencies on more than one alarm signal Type C 8.3 Fault signal from points 8.9 Output to fault warning routing equipment 9.5 Disablement of each addressable point 10 Test condition	1213b/01
510-0208A Odyssey Plus	Two loop, 32 Zone analogue addressable control and indicating equipment. Incorporating as modular units: BRD68BPSC4-A FFP Brigade & Power supply control board (8610) BRD86DLTB4-A FFP Dual loop termination board (8610) BRD86FPB5-B FFP Front panel board EN54 (8610) BRD86MBA4-A FFP Main board LCD (8610) BRD86MCPU4-B FFP Main 64MB CPU card (8610) BRD86SCB3-A FFP Slave CPU card (8610) BRD43ZAMC2-A 32 Zone alarm MIMIC internal card (4310) PSU1888 Power supply 5A (8610) Optional Modules: BRD43EZC2-A 8 Zone conventional module (4310) BRD43ZAMC2-A 32 Zone alarm MIMIC internal card (4310) Certified with the following options with requirements from EN 54-2: 7.8 Output to fire alarm devices 7.9.1 Output to fire alarm routing equipment	1213b/02

Certificated Products		LPCB Ref. No.
	7.9.2 Alarm confirmation input from fire alarm routine equipment 7.11 Delay to outputs 7.12.1 Dependencies on more than one alarm signal - Type A 7.12.2 Dependencies on more than one alarm signal - Type B 7.12.3 Dependencies on more than one alarm signal - Type C 8.3 Fault signal from points 8.9 Output to fault warning routing equipment 9.5 Disablement of each addressable point 10 Test condition	
510-0308A Odyssey Plus	Three loop, 32 Zone analogue addressable control and indicating equipment Incorporating as modular units: BRD68BPSC4-A FFP Brigade & Power supply control board (8610) BRD86DLTB4-A FFP Two Dual loop termination boards (8610) BRD86FPB5-B FFP Front panel board EN54 (8610) BRD86MBA4-A FFP Main board LCD (8610) BRD86MCPU4-B FFP Main 64MB CPU card (8610) BRD86SCB3-A FFP Two Slave CPU cards (8610) BRD43ZAMC2-A 32 Zone alarm MIMIC internal card (4310) PSU1888 Power supply 5A (8610) Optional Modules: BRD86DLTB4-A FFP Dual loop termination board (8610) BRD86SCB3-A FFP Slave CPU cards (8610) BRD43EZC2-A 8 Zone conventional module (4310) BRD43ZAMC2-A 32 Zone alarm MIMIC internal card (4310) Certified with the following options with requirements from EN 54-2: 7.8 Output to fire alarm devices 7.9.1 Output to fire alarm routing equipment 7.9.2 Alarm confirmation input from fire alarm routine equipment 7.11 Delay to outputs 7.12.1 Dependencies on more than one alarm signal Type A 7.12.2 Dependencies on more than one alarm signal Type B 7.12.3 Dependencies on more than one alarm signal Type C 8.3 Fault signal from points 8.9 Output to fault warning routing equipment 9.5 Disablement of each addressable point 10 Test condition Incorporating as modular units: BRD68BPSC4-A FFP Brigade & Power supply control board (8610) BRD86DLTB4-A FFP Two Dual loop termination boards (8610) BRD86FPB5-B FFP Front panel board EN54 (8610) BRD86MBA4-A FFP Main board LCD (8610) BRD86MCPU4-B FFP Main 64MB CPU card (8610) BRD86SCB3-A FFP Two Slave CPU cards (8610) BRD43ZAMC2-A 32 Zone alarm MIMIC internal card (4310) PSU1888 Power supply 5A (8610) Optional Modules: BRD86DLTB4-A FFP Dual loop termination board (8610) BRD86SCB3-A FFP Slave CPU cards (8610) BRD43EZC2-A 8 Zone conventional module (4310) BRD43ZAMC2-A 32 Zone alarm MIMIC internal card (4310) Certified with the following options with requirements from EN 54-2: 7.8 Output to fire alarm devices 7.9.1 Output to fire alarm routing equipment 7.9.2 Alarm confirmation input from fire alarm routine equipment 7.11 Delay to outputs 7.12.1 Dependencies on more than one alarm signal Type A 7.12.2 Dependencies on more than one alarm signal Type B 7.12.3 Dependencies on more than one alarm signal Type C 8.3 Fault signal from points 8.9 Output to fault warning routing equipment 9.5 Disablement of each addressable point 10 Test condition	1213b/03
510-0408A Odyssey Plus	Four loop, 32 Zone analogue addressable control and indicating equipment Incorporating as modular units: BRD68BPSC4-A FFP Brigade & Power supply control board (8610) BRD86DLTB4-A FFP Two Dual loop termination boards (8610) BRD86FPB5-B FFP Front panel board EN54 (8610) BRD86MBA4-A FFP Main board LCD (8610) BRD86MCPU4-B FFP Main 64MB CPU card (8610) BRD86SCB3-A FFP Three Slave CPU cards (8610)	1213b/04

Certificated Products		LPCB Ref. No.
	BRD43ZAMC2-A 32 Zone alarm MIMIC internal card (4310) PSU1888 Power supply 5A (8610) Optional Modules: BRD86DLTB4-A FFP Dual loop termination board (8610) BRD86SCB3-A FFP Slave CPU cards (8610) BRD43EZC2-A 8 Zone conventional module (4310) BRD43ZAMC2-A 32 Zone alarm MIMIC internal card (4310) Certified with the following options with requirements from EN 54-2: 7.8 Output to fire alarm devices 7.9.1 Output to fire alarm routing equipment 7.9.2 Alarm confirmation input from fire alarm routine equipment 7.11 Delay to outputs 7.12.1 Dependencies on more than one alarm signal Type A 7.12.2 Dependencies on more than one alarm signal Type B 7.12.3 Dependencies on more than one alarm signal Type C 8.3 Fault signal from points 8.9 Output to fault warning routing equipment 9.5 Disablement of each addressable point 10 Test condition	

A copy of the certificate, confirming the full scope of approval including notes relating to the superscript references in the above table, may be viewed online by clicking on the product name in the associated entry on www.RedBookLive.com

Certificate No: 1213a to EN 54-2: 1997 + A1: 2006, EN 54-4: 1997 + A1: 2002 + A2: 2006 and EN 54-4: 1998 + A1: 2002 + A2: 2006

Control and indicating equipment

Certificated Products		LPCB Ref. No.
500-0105A Odyssey	32 Zone analogue addressable control and indicating equipment Incorporating the following units: BRD82MBA Main Termination Board BRD82ZICC Zone Interface & Control Card PSU2397 Power Supply Unit 1213a/01 ASS82ZICC Zone Indicator & LCD Assembly (8210) Certificated with the following options with requirements from EN54-2: 7.8 Output to fire alarm devices 7.9.1 Output to fire alarm routing equipment 7.9.2 Alarm confirmation input from fire alarm routing equipment 7.11 Delay to outputs 7.12.1 Dependencies on more than one alarm signal - Type A 7.12.2 Dependencies on more than one alarm signal - Type B 7.12.3 Dependencies on more than one alarm signal - Type C 8.3 Fault signal from points 8.9 Output to fault warning routing equipment 9.5 Disablement of each addressable point 10 Test condition Note: 1. This product approval does not constitute compliance with the fire detection and alarm systems requirements of EN 54-13.	1213a/01
500-0205A Odyssey	Two loop, 32 Zone analogue addressable control and indicating equipment Incorporating the following units: BRD82MBA Main Termination Board BRD82ZICC Zone Interface & Control Card PSU2397 Power Supply Unit 8210-0001 2nd loop activation Key BRD82LSD Loop Activation Board ASS82ZICC Zone Indicator & LCD Assembly (8210) Certificated with the following options with requirements from EN54-2: 7.8 Output to fire alarm devices 7.9.1 Output to fire alarm routing equipment 7.9.2 Alarm confirmation input from fire alarm routing equipment 7.11 Delay to outputs 7.12.1 Dependencies on more than one alarm signal Type A 7.12.2 Dependencies on more than one alarm signal Type B 7.12.3 Dependencies on more than one alarm signal Type C 8.3 Fault signal from points 8.9 Output to fault warning routing equipment	1213a/02

Certificated Products		LPCB Ref. No.
	9.5 Disablement of each addressable point 10 Test condition Note: 1. This product approval does not constitute compliance with the fire detection and alarm systems requirements of EN 54-13	

A copy of the certificate, confirming the full scope of approval including notes relating to the superscript references in the above table, may be viewed online by clicking on the product name in the associated entry on www.RedBookLive.com

---

Fike Safety Technology Ltd

Unit 31, Springvale Industrial Estate, Cwmbran, Gwent NP44 5BD, United Kingdom
Tel: +44 (0)1633 865558 • Fax: +44 (0)1633 866656
E-mail: fstinfo@fike.com • Website: www.fikesafetytechnology.co.uk

Certificate No: 331q to EN 54-2: 1997 + A1: 2006 and EN 54-4: 1997 + A1: 2002 + A2: 2006

Certificated Products		LPCB Ref. No.
505-0002	TWINFLEXpro, 2 Zone Twin Wire control and indicating equipment Incorporating: 10-0067 Main Processor Card. Certified with the following options from EN 54 Part 2: 7.8 Output to fire alarm devices 7.10.1 Output type A to fire protection equipment 7.11 Delays to outputs 7.12.1 Type A dependency on more than one alarm signal 10 Test condition.	331q/06
505-0004	TWINFLEXpro, 4 Zone Twin Wire control and indicating equipment Incorporating: 10-0067 Main Processor Card. Certified with the following options from EN 54 Part 2: 7.8 Output to fire alarm devices 7.10.1 Output type A to fire protection equipment 7.11 Delays to outputs 7.12.1 Type A dependency on more than one alarm signal 10 Test condition.	331q/07
505-0008	TWINFLEXpro, 8 Zone Twin Wire control and indicating equipment Incorporating: 10-0067 Main Processor Card 10-0087 4 Zone expansion card. Certified with the following options from EN 54 Part 2: 7.8 Output to fire alarm devices 7.10.1 Output type A to fire protection equipment 7.11 Delays to outputs 7.12.1 Type A dependency on more than one alarm signal 10 Test condition.	331q/08
505-0008C	TWINFLEXpro, 4 Zone Twin Wire and 4 Zone Conventional Control and Indicating Equipment *Incorporating the following units:* *10-0067 Main Processor Card* *10-0088 4 Zone Conventional Expansion Card* *Certified with the following options with requirements from EN54-2:* *7.8 Output to fire alarm devices* *7.10.1 Output type A to fire protection equipment* *7.11 Delays to outputs* *7.12.1 Type A dependency on more than one alarm signal* *10 Test condition.*	331q/09

Certificated Products		LPCB Ref. No.
	Note: *1. This product approval does not constitute compliance with the fire detection and alarm systems requirements of EN 54-13*	
520-0001	FIKE-CIE-A-200, Single Loop Analogue Addressable Control and Indicating Equipment	331q/10
	Incorporating the following units: 10-0154 LCD Keyboard & Configuration module 10-0155 Loop Card Interface module with power supply charger LRS-150F Power Supply Unit	
	Certified with the following options with requirements from EN54-2: 7.8 Output to fire alarm devices 7.10.1 Output type A to fire protection equipment 7.11 Delays to outputs 7.12.2 Type B dependency on more than one alarm signal 8.3 Fault signals from points 9.5 Disablement of each address point 10 Test condition	
	Note: 1. This product approval does not constitute compliance with the fire detection and alarm systems requirements of EN 54-13.	
540-0001	FIKE-CIE-A-400 Two Loop Analogue Addressable Control and Indicating Equipment	331q/11
	Incorporating the following modules: 10-0160 Front LCD and buttons board 10-0161 Backboard incorporating Loop 1 and battery charger LRS-150F-32 Meanwell Power Supply Unit	
	Including the following optional modules: 10-0162 Plug-in loop 2 card	
	Certified with the following options with requirements from EN 54-2: 7.8 Output to fire alarm device(s) 7.10.1 Output type A 7.11 Delays to outputs 7.12.2 Dependencies on more than one alarm signal -Type B 8.3 Fault signals from points 9.5 Disablement of each address point 10 Test condition *Note* *This product approval does not constitute compliance with the fire detection and alarm system requirements of EN54-13.*	

A copy of the certificate, confirming the full scope of approval including notes relating to the superscript references in the above table, may be viewed online by clicking on the product name in the associated entry on www.RedBookLive.com

---

Finder Yangin Güvenlik Elektronik Sistemler A.Ş

Kepez Mh., 5071 Sk, No: 10 07090, Kepez, Antalya, Turkey
Tel: +90 242 259 04 20 • Fax: +90 242 259 28 88
E-mail: finder@finder.com.tr • Website: www.finder.com.tr

Certificate No: 1450g-(cl-1) to EN 54-2:1997 + A1: 2006 & EN 54-4:1997 +A1: 2002 + A2: 2006
Certificate No: 1395c-(cl-1) to EN 54-2:1997 + A1: 2006 & EN 54-4:1997 +A1: 2002 + A2: 2006

Control and indicating equipment

Certificated Products		LPCB Ref. No.
FF FCP500	1-4 Loops Analogue Addressable Fire Alarm Control Panel	1450g/01
	Incorporating the following modules: TC5109-Main Main board TC5109-Loop Loop board TC5109-XZB Loop base board TC5109-Key Keypad board TC5109-ZX Zone and FPE indicator board	

Certificated Products		LPCB Ref. No.
TC5109-LCD	Display board	
TC5109-SCR	Indicator board	
TC5120-RS485	RS485 board	
TC5000-MAIN-CAN	CAN board	
TC5109-LB1	Filter board 1	
TC5109-LB2	Filter board 2	
TC5109-POW	Power Supply Equipment	

Certified with the following options with requirements:
7.8 Output to fire alarm device(s)
7.10.1 Output to automatic fire protection equipment Type A
7.10.2 Output to automatic fire protection equipment Type B
7.10.3 Output to automatic fire protection equipment Type C
8.3 Fault signals from point
9.5 Disablement of addressable points
Notes:
1. This product approval does not constitute compliance with the fire detection and alarm systems requirements of EN54-13.
2. Scope of approval does not include the operation of the network functionality.

A copy of the certificate, confirming the full scope of approval including notes relating to the superscript references in the above table, may be viewed online by clicking on the product name in the associated entry on www.RedBookLive.com

---

Fire Fighter CO Security and Safety Equipment Trading LLC

Al Qusais Industry Area 4, P O Box 84926, Dubai, United Arab Emirates
Tel: 00971-4-2554494
E-mail: mutasem@firefighterco1.ae

Certificate No: 1174j-(cl-3) to EN 54-2:1997 + A1:2006 & EN 54-4:1997 + A1:2002 + A2:2006

Control and indicating equipment

Certificated Products		LPCB Ref. No.
FST-6847	4 Loop Analogue Addressable Control and Indicating Equipment	1174j/01

Incorporating the following modules:

VSL2.908.146	Main Board
VSL2.908.149	Indication board
VSL2.908.155	Terminal board
VSL2.908.162	Control Board
VSL2.908.153	Loop Card
VSL2.908.152	I/O Board
VSL2.908.169	Power Board
VSL7-820-150	Zone Board
VSL7-820-154	Network Card
LRS-150-24	MEAN-WELL Power Supply module

Certified with the following option with requirements for EN54-2:
7.8 Output to fire alarm devices
7.10.1 Outputs to fire protection equipment (Type A)
7.10.2 Outputs to fire protection equipment (Type B)
7.10.3 Outputs to fire protection equipment (Type C)
7.10.4 Fault monitoring of fire protection equipment
7.11 Delays to outputs
7.12.1 Dependencies on more than one alarm signal (Type A dependency)
7.12.2 Dependencies on more than one alarm signal (Type B dependency)
7.12.3 Dependencies on more than one alarm signal (Type C dependency)
7.13 Alarm Counter
9.5 Disablement of addressable point

Certificated Products		LPCB Ref. No.
	10 Test condition	
	Notes: The scope of the approval does not include the operation of the network functionality This approval does not constitute compliance with the fire detection and alarm systems requirements of EN54-13.	

A copy of the certificate, confirming the full scope of approval including notes relating to the superscript references in the above table, may be viewed online by clicking on the product name in the associated entry on www.RedBookLive.com

Firesafe

10 Sanderson Way, Marton, Blackpool, Lancashire FY4 4NB, United Kingdom
Tel: 01253 699500 • Fax: 01253 699550
E-mail: sales@firesafe.co.uk • Website: www.firesafe.co.uk

Certificate No: 176b-(cl-1) to EN 54-2: 1997+A1: 2006 and EN 54-4: 1997+A1: 2002+A2: 2006
Certificate No: 176b-(cl-1) to EN 54-2: 1997+A1: 2006 and EN 54-4: 1997+A1: 2002+A2: 2006

Certificated Products		LPCB Ref. No.
FCFP2N	Two zone conventional control and indicating equipment	176b/07
	Incorporating the units:	
	SPF0702480 Switch mode power supply unit board SPF0724851 2 Zone main control board	
	Certified with the following options with requirements from EN 54-2: 1997	
	7.8 Output to fire alarm devices(s) 7.11 Delays to outputs 10 Test condition *Notes:* *1. Scope of approval does not include the operation of the network functionality* *2. This product approval does not constitute compliance with the fire detection and alarm system requirements of EN54-13.*	
FCFP4N	Four zone conventional control and indicating equipment	176b/08
	Incorporating the units:	
	SPF0702480 Switch mode power supply unit board SPF0724853 4 Zone main control board	
	Certified with the following options with requirements from EN 54-2: 1997	
	7.8 Output to fire alarm devices(s) 7.11 Delays to outputs 10 Test condition *Notes:* *1. Scope of approval does not include the operation of the network functionality* *2. This product approval does not constitute compliance with the fire detection and alarm system requirements of EN54-13.*	
FCFP8N	Eight zone conventional control and indicating equipment	176b/09
	Incorporating the units:	
	SPF0702480 Switch mode power supply unit board SPF0724855 8 Zone main control board	
	Certified with the following options with requirements from EN 54-2: 1997	
	7.8 Output to fire alarm devices(s) 7.11 Delays to outputs 10 Test condition *Notes:* *1. Scope of approval does not include the operation of the network functionality*	

Certificated Products		LPCB Ref. No.
	2. This product approval does not constitute compliance with the fire detection and alarm system requirements of EN54-13.	

A copy of the certificate, confirming the full scope of approval including notes relating to the superscript references in the above table, may be viewed online by clicking on the product name in the associated entry on www.RedBookLive.com

Certificate No: 810a-(cl-4) to EN 54-2: 1997+A1: 2006 and EN 54-4: 1997+A1: 2002+A2: 2006

EN 54-4:1997 + A1:2002 + A2:2006

Certificated Products		LPCB Ref. No.
FSDG2 / FSDG4	Dualguard+ 2 and 4 Zone Conventional Control and Indicating Equipment FSDG2 Incorporating as modular units: TPC A01-E2 2 zone main PCB applicable on 2 zone CIE only TPC A02 LED display PCB PSM1.5-24 Power supply 1.5A rated Certified with the following options with requirements from EN 54 Part 2: 7.8 Output to fire alarm devices 7.12.1 Dependency on more than one alarm signal type A 10 Test condition FSDG4 Incorporating as modular units: TPC A01-E4 4 zone main PCB applicable on 4 zone CIE only TPC A02 LED display PCB PSM1.5-24 Power supply 1.5A rated Certified with the following options with requirements from EN 54 Part 2: 7.8 Output to fire alarm devices 7.12.1 Dependency on more than one alarm signal type A 10 Test condition *Note:* *1. This product approval does not constitute compliance with the fire detection and alarm systems requirements of EN 54-13.*	810a/03
FSDG8 / FSDG12	Dualguard+ 8 and 12 Zone Conventional Control and Indicating Equipment FSDG8 8 Zone Conventional Control and Indicating Equipment Incorporating as modular units: TPCA01-X4 4 Zone Main PCB TPCA03 Display Board TPCA04-H High Spec 4 Zone Extension Board PSM3.0-24 Power Supply Incorporating as optional module: TPCA05 Communications Board FSDG12 12 Zone Conventional Control and Indicating Equipment Incorporating as modular units: TPCA01-X4 4 Zone Main PCB TPCA03 Display Board TPCA04-S Standard 4 Zone Extension Board TPCA04-H High Spec 4 Zone Extension Board PSM3.0-24 Power Supply Incorporating as optional module: TPCA05 Communications Board Certified with the following options with requirements from EN 54 Part 2: 7.8 Output to fire alarm devices 7.11 Delays to outputs 7.12.1 Dependency on more than one alarm signal type A 7.12.2 Dependency on more than one alarm signal type B 7.12.3 Dependency on more than one alarm signal type C 10 Test condition *Note:* *1. This product approval does not constitute compliance with the fire detection and alarm systems requirements of EN 54-13.*	810a/04

A copy of the certificate, confirming the full scope of approval including notes relating to the superscript references in the above table, may be viewed online by clicking on the product name in the associated entry on www.RedBookLive.com

FIREX Protection System Technology Ltd

28-38 Desborough St, High Wycombe, Buckinghamshire, United Kingdom
Tel: 00971 653 40300 • Fax: 00971 653 40090
E-mail: QC@firexuae.com • Website: www.firexuae.com

Certificate No: 548p-(cl-5) to EN 54-2: 1997 + A1: 2006, EN 54-4: 1997 + A1: 2002 + A2: 2006

Control and indicating equipment

Certificated Products		LPCB Ref. No.
FX200-2	Intelligent 2 Loop, 30 Zone Analogue Addressable Control and Indicating Equipment Incorporating the following units: MB-220/ F7.820.826 Main board SB-220/ F7.820.827 Switch board TB-220/ F7.820.828 Loop interface board PS-220/ F7.820.829b Power supply unit ZP-220/ F7.820.312d Zone indication and intervention board LC200/ F7.820.1125 Loop board Incorporating as optional modular units: FX9930/ F7.820.913a RS-232 board for configuration FX9901A Printer module kit Certified with the following options with requirements from EN 54 part 2: 7.8 Output to Fire Alarm Devices 7.10.1 Output to automatic Fire Protection Equipment Type A 7.11 Delays to outputs 8.3 Fault signals from points9.5 Disablement of addressable points	548p/01
FX-IFP8	Intelligent 8 loop, 140 zone analogue addressable control and indicating equipment Incorporating the following units: SB-800/ F7.820.1238 Indication board LCIFP8/ F7.820.1239 Loop board PB-800/ F7.820.1311 Power board ZP-800/ F7.820.1312 ZCP board KB-800/ F7.820.1326 Keypad boardMB-800/ F7.820.1237 Main board MO-800/ F7.820.1310 Mother board Incorporating as optional modular units: FX9935/ F7.820.1313 USB communication board Certified with the following options with requirements from EN 54 Part 2: 7.8 Output to fire alarm devices 7.9.1 Output to fire routing equipment 7.9.2 Alarm confirmation input from fire routing equipment 7.10.1 Output type A 7.10.2 Output type B 7.11 Delays to outputs 7.12.1 Dependencies on more than one alarm signal - Type A 7.12.2 Dependencies on more than one alarm signal - Type B 7.13 Alarm counter 8.3 Fault signals from points 9.5 Disablement of each address point10 Test condition	548p/02
FX102A	2 Zone conventional control and indicating equipment Incorporating the following modules: FC-102A/ F7.843.399 Membrane CB-102A/ F2.908.1719 Control board with integrated PSE DB-102A/ F2.908.1722 Display board Certified with the following options with requirements from EN 54 Part 2: 7.8 Output to fire alarm devices	548p/03

Certificated Products		LPCB Ref. No.
	7.9.1 Output to fire routing equipment 7.11 Delays to outputs10 Test condition	
FX104A	4 Zone conventional control and indicating equipment Incorporating the following modules:FC-104A/ F7.843.400 MembraneCB-104A/ F2.908.1718 Control board with integrated PSEDB-104A/ F2.908.1721 Display boardCertified with the following options with requirements from EN 54 Part 2:7.8 Output to fire alarm devices7.9.1 Output to fire routing equipment7.11 Delays to outputs10 Test condition	548p/04
FX108A	8 Zone Conventional Control and Indicating Equipment Incorporating the following modules: FC-108A/ F7.843.401 Membrane CB-108A/ F2.908.1675 Control board with integrated PSE DB-108A/ F2.908.1720 Display board Certified with the following options with requirements from EN 54 Part 2: 7.8 Output to fire alarm devices 7.9.1 Output to fire routing equipment 7.11 Delays to outputs 10 Test condition	548p/05
FX116A	16 Zone Conventional Control and Indicating Equipment Incorporating the following modules: FC-116A/ F7.843.402 Membrane CB-116A/ F2.908.1724 Control board with integrated PSE DB-116A/ F2.908.1676 Display board XB-116A/ F7.820.1677 Expansion board Certified with the following options with requirements from EN 54 Part 2: 7.8 Output to fire alarm devices 7.9.1 Output to fire routing equipment 7.11 Delays to outputs 10 Test condition	548p/06
FX200N-2	Intelligent 2 Loop, 30 Zone Analogue Addressable Control and Indicating Equipment *Incorporating the following units:* *MB-220N Main board* *PS-220N Power management board* *OX-220 Terminal board* *ZP-220 Zone indication and intervention board* *SB-220 Switch board* *TB-220N Loop interface board* *FX200LC Loop board* *PDF-150-27.5 Powered SMPS 100-240V power supply* *Incorporating as optional modular units:* *FX9930 RS-232 board for configuration* *FX9901A Printer module kit* *FX9960A CAN network card loop type board* *FX9930ModBus RS232 Modbus interface card* *Certified with the following options with requirements from EN 54 part 2:* *7.8 Output to Fire Alarm Devices* *7.10.1 Output to automatic Fire Protection Equipment Type A* *7.11 Delays to outputs* *8.3 Fault signals from points* *9.5 Disablement of addressable points* *Note:* *Scope of approval does not include the operation of the network functionality* *This product approval does not constitute compliance with the fire detection and alarm systems requirements of EN54-13*	548p/07
FX200-2/1	Intelligent 1 Loop, 30 Zone Analogue Addressable Control and Indicating Equipment	548p/08

Certificated Products		LPCB Ref. No.
	Incorporating the following units: MB-220/ F7.820.826 Main board SB-220/ F7.820.827 Switch board TB-220/ F7.820.828 Loop interface board PS-220/ F7.820.829b Power supply unit ZP-220/ F7.820.312d Zone indication and intervention board Incorporating as optional modular units: FX9930/ F7.820.913a RS-232 board for configuration FX9901A Printer module kit LC200/ F7.820.1125 Loop board (for loop expansion) Certified with the following options with requirements from EN 54 part 2: 7.8 Output to Fire Alarm Devices 7.10.1 Output to automatic Fire Protection Equipment Type A 7.11 Delays to outputs 8.3 Fault signals from points 9.5 Disablement of addressable points	
FX200N-1	Note: can be extended to 2 loop panel by adding LC200 Intelligent 1 Loop, 30 Zone Analogue Addressable Control and Indicating Equipment *Incorporating the following units:* *MB-220N Main board* *PS-220N Power management board* *OX-220 Terminal board* *ZP-220 Zone indication and intervention board* *SB-220 Switch board* *TB-220N Loop interface board* *PDF-150-27.5 Powered SMPS 100-240V power supply* *Incorporating as optional modular units:* *FX9930 RS-232 board for configuration* *FX9901A Printer module kit* *FX9960A CAN network card loop type board* *FX9930ModBus RS232 Modbus interface card* *Certified with the following options with requirements from EN 54 part 2:* *7.8 Output to Fire Alarm Devices* *7.10.1 Output to automatic Fire Protection Equipment Type A* *7.11 Delays to outputs* *8.3 Fault signals from points* *9.5 Disablement of addressable points* *Notes:* *1. Can be converted to 2 loop by adding FX200LC Loop board* *2. Scope of approval does not include the operation of the network functionality* *3. This product approval does not constitute compliance with the fire detection and alarm systems requirements of EN54-13*	548p/11

A copy of the certificate, confirming the full scope of approval including notes relating to the superscript references in the above table, may be viewed online by clicking on the product name in the associated entry on www.RedBookLive.com

---

Frontier Safety Ltd UK

85 Great Portland Street, London, England W1W 7, United Kingdom
Tel: 00447708000050
E-mail: mikefrontiersafety@gmail.com • Website: www.frontierpumps.com

Certificate No: 1426g-(cl-4) to EN 54-2:1997 + A1: 2006 & EN54-4: 1997 + A1: 2002 + A2:2006

Control and indicating equipment

Certificated Products		LPCB Ref. No.
FRN 3002	Addressable Fire Alarm Control Panel Incorporating the following modules: SEC3002_IO IO Board SEC3002_B Monitoring Board (B Board)	1426g/01

Certificated Products		LPCB Ref. No.
	ZB-9100-A Main CPU Board (A Board) PSE10_KZ Power Supply SEC3002_QK Zone Indication Board SEC3002_KEY Key Board SEC3002_FL1 Loop SPU Board Incorporating the following optional modules: SEC3002_COM Communication Board *Certified with the following options with requirements from EN54-2:* *7.8 Output to fire alarm devices* *7.10.1 Output type A* *7.11 Delays to outputs* *8.3 Fault signals from points* *9.5 Disablement of addressable point* *10 Test condition* *Notes:* *1. This product approval does not constitute compliance with the fire detection and alarm systems requirements of EN54-13.* *2. Scope of approval does not include the operation of the network functionality.*	

A copy of the certificate, confirming the full scope of approval including notes relating to the superscript references in the above table, may be viewed online by clicking on the product name in the associated entry on www.RedBookLive.com

Gent By Honeywell (Novar Systems Ltd)

Building 5, Carlton Park, King Edward Avenue, Narborough, Leicester LE19 0AL, United Kingdom
Tel: +44 (0)116 246 2000 • Fax: +44 (0)116 246 2300
E-mail: gent_enquiry@gent.co.uk • Website: www.gent.co.uk

Certificate No: 042bb to EN 54-2:1997 + A1:2006 and EN 54-4:1997 + A1:2002 + A2:2006

Certificated Products		LPCB Ref. No.
AS-2000	Two Loop Analogue Addressable Control and Indicating Equipment Incorporating as modular units: 2434-824 Power supply 2434-710 Loop Processor Card 2434-833 Master Control Card 2434-825 Optical Network Card 2434-821 Message Store Card 2434-822 Mother board 2434-835 H.M.I 2434-840 Cold fire card 2434-796 Addressable speaker card (Optional Card) 2434-826 Addressable daughter speaker card (Optional Card) 2434-780 Audio Input Card (Optional Card) 2434-781 Audio Output Card (Optional Card) Certified with the following options with requirements from EN 54 -2: 1997 7.8 Output to fire alarm devices 7.11 Delay to outputs 8.3 Fault signals from points 9.5 Disablement of each address point 10 Test condition *Notes:* *1. Scope of approval does not include the operation of the network functionality* *2. This product approval does not constitute compliance with the fire detection and alarm system requirements of EN54-13.*	042bb/01

A copy of the certificate, confirming the full scope of approval including notes relating to the superscript references in the above table, may be viewed online by clicking on the product name in the associated entry on www.RedBookLive.com

Certificate No: 042bc to EN 54-2:1997 + A1:2006 and EN 54-4:1997 + A1:2002 + A2:2006

Certificated Products		**LPCB Ref. No.**
Nano-24	Single Loop Analogue Addressable Control and Indicating EquipmentIncorporating as modular units: 2434-881 Mother board 2434-862 Power supply 2434-887 H.M.I (Human Machine Interface) Certified with the following options with requirements from EN 54 Part 2: 7.8 Output to fire alarm device(s) 7.11 Delays to outputs 8.3 Fault signals from points 10 Test condition *Notes:* *1. This product approval does not constitute compliance with the fire detection and alarm systems requirements of EN 54-13.*	042bc/01
Nano-24-SP	Single Loop Analogue Addressable Control and Indicating Equipment (Spanish Language Variant) Incorporating as modular units: 2434-881 Mother board 2434-862 Power supply 2434-887 H.M.I (Human Machine Interface) Certified with the following options with requirements from EN 54 Part 2: 7.8 Output to fire alarm device(s) 7.11 Delays to outputs 8.3 Fault signals from points 10 Test condition *Notes:* *1. This product approval does not constitute compliance with the fire detection and alarm systems requirements of EN 54-13.*	042bc/02
Nano-24-PO	Single Loop Analogue Addressable Control and Indicating Equipment (Portuguese Language Variant) Incorporating as modular units: 2434-881 Mother board 2434-862 Power supply 2434-887 H.M.I (Human Machine Interface) Certified with the following options with requirements from EN 54 Part 2: 7.8 Output to fire alarm device(s) 7.11 Delays to outputs 8.3 Fault signals from points 10 Test condition *Notes:* *1. This product approval does not constitute compliance with the fire detection and alarm systems requirements of EN 54-13.*	042bc/03

A copy of the certificate, confirming the full scope of approval including notes relating to the superscript references in the above table, may be viewed online by clicking on the product name in the associated entry on www.RedBookLive.com

Certificate No: 042cb to EN 54-2:1997 + A1:2006 and EN 54-4:1997 + A1:2002 + A2:2006

Certificated Products		**LPCB Ref. No.**
Vigilon CompactPlus	One to Two Loop Analogue Addressable Control and Indicating Equipment Incorporating the following modules: VCS-MCB-N PCB Assembly VIGILON COMPACT Network control VCS-PSU-N Power Supply Unit VCS-IDOOR-PLUS Display and Key card (DKC) COMPACT-LPC-EN Loop processor card COMPACT-NC Copper network card Certified with the following options with requirements from EN54-2: 7.8 Output to fire alarm device(s) 7.9.1 Output to fire alarm routing equipment 7.10.1 Output type A 7.11 Delays to outputs 7.12.3 Dependencies on more than one alarm signal -Type C 8.3 Fault signals from points 9.5 Disablement of each address point 10 Test condition *Notes:*	042cb/01

Certificated Products		LPCB Ref. No.
	1. This product approval does not constitute compliance with the fire detection and alarm systems requirements of EN 54-13. *2. Scope of approval does not include the operation of the network functionality.*	
Vigilon CompactPlus-PO	One to Two Loop Analogue Addressable Control and Indicating Equipment (Portuguese Language Variant) Incorporating the following modules: VCS-MCB-N PCB Assembly VIGILON COMPACT Network control VCS-PSU-N Power Supply Unit VCS-IDOOR-PLUS Display and Key card (DKC) COMPACT-LPC-EN Loop processor card COMPACT-NC Copper network card Certified with the following options with requirements from EN54-2: 7.8 Output to fire alarm device(s) 7.9.1 Output to fire alarm routing equipment 7.10.1 Output type A 7.11 Delays to outputs 7.12.3 Dependencies on more than one alarm signal -Type C 8.3 Fault signals from points 9.5 Disablement of each address point 10 Test condition *Notes:* *1. This product approval does not constitute compliance with the fire detection and alarm systems requirements of EN 54-13.* *2. Scope of approval does not include the operation of the network functionality.*	042cb/02
Vigilon CompactPlus-SP	One to Two Loop Analogue Addressable Control and Indicating Equipment (Spanish Language Variant) Incorporating the following modules: VCS-MCB-N PCB Assembly VIGILON COMPACT Network control VCS-PSU-N Power Supply Unit VCS-IDOOR-PLUS Display and Key card (DKC) COMPACT-LPC-EN Loop processor card COMPACT-NC Copper network card Certified with the following options with requirements from EN54-2: 7.8 Output to fire alarm device(s) 7.9.1 Output to fire alarm routing equipment 7.10.1 Output type A 7.11 Delays to outputs 7.12.3 Dependencies on more than one alarm signal -Type C 8.3 Fault signals from points 9.5 Disablement of each address point 10 Test condition *Notes:* *1. This product approval does not constitute compliance with the fire detection and alarm systems requirements of EN 54-13.* *2. Scope of approval does not include the operation of the network functionality.*	042cb/03

A copy of the certificate, confirming the full scope of approval including notes relating to the superscript references in the above table, may be viewed online by clicking on the product name in the associated entry on www.RedBookLive.com

Certificate No: 042cc to EN 54-2:1997 + A1:2006 and EN 54-4:1997 + A1:2002 + A2:2006

Certificated Products		LPCB Ref. No.
VIGPLUS-24	One to Four Loop Analogue Addressable Control and Indicating Panel Incorporating the following modules: VIG-LPC-EN Vigilon Loop Card VIGPLUS-MCC Local Controller Card VIG-NC Copper Network Card VS-PSU-24 Power Supply Unit VS-BPlane Backplane VS-IDOOR-PLUS Vigilon Display Board - D.K.C VS-PRIN Printer Assembly VIG-NC-SMF Single Mode Fibre Network Card Certified with the following options with requirements from EN54-2: 7.8 Output to fire alarm device(s)	042cc/01

Certificated Products		LPCB Ref. No.
	7.9.1 Output to fire alarm routing equipment 7.10.1 Output type A 7.11 Delays to outputs 7.12.2 Dependencies on more than one alarm signal - Type B 7.12.3 Dependencies on more than one alarm signal - Type C 8.3 Fault signals from points 9.5 Disablement of each address point 10 Test condition *Notes:* *1. This product approval does not constitute compliance with the fire detection and alarm systems requirements of EN 54-13.* *2. Scope of approval does not include the operation of the network functionality.*	
VIGPLUS-24-NP	One to Four Loop Analogue Addressable Control and Indicating Panel (No Printer) Incorporating the following modules: VIG-LPC-EN Vigilon Loop Card VIGPLUS-MCC Local Controller Card VIG-NC Copper Network Card VS-PSU-24 Power Supply Unit VS-BPlane Backplane VS-IDOOR-PLUS Vigilon Display Board - D.K.C VIG-NC-SMF Single Mode Fibre Network Card Certified with the following options with requirements from EN54-2: 7.8 Output to fire alarm device(s) 7.9.1 Output to fire alarm routing equipment 7.10.1 Output type A 7.11 Delays to outputs 7.12.2 Dependencies on more than one alarm signal - Type B 7.12.3 Dependencies on more than one alarm signal - Type C 8.3 Fault signals from points 9.5 Disablement of each address point 10 Test condition *Notes:* *1. This product approval does not constitute compliance with the fire detection and alarm systems requirements of EN 54-13.* *2. Scope of approval does not include the operation of the network functionality.*	042cc/02
VIGPLUS-24-PO	One to Four Loop Analogue Addressable Control and Indicating Panel (Portuguese Language Variant) Incorporating the following modules: VIG-LPC-EN Vigilon Loop Card VIGPLUS-MCC Local Controller Card VIG-NC Copper Network Card VS-PSU-24 Power Supply Unit VS-BPlane Backplane VS-IDOOR-PLUS Vigilon Display Board - D.K.C VS-PRIN Printer Assembly VIG-NC-SMF Single Mode Fibre Network Card Certified with the following options with requirements from EN54-2: 7.8 Output to fire alarm device(s) 7.9.1 Output to fire alarm routing equipment 7.10.1 Output type A 7.11 Delays to outputs 7.12.2 Dependencies on more than one alarm signal - Type B 7.12.3 Dependencies on more than one alarm signal - Type C 8.3 Fault signals from points 9.5 Disablement of each address point 10 Test condition *Notes:* *1. This product approval does not constitute compliance with the fire detection and alarm systems requirements of EN 54-13.* *2. Scope of approval does not include the operation of the network functionality.*	042cc/03
VIGPLUS-24-SP	One to Four Loop Analogue Addressable Control and Indicating Panel (Spanish Language Variant) Incorporating the following modules: VIG-LPC-EN Vigilon Loop Card VIGPLUS-MCC Local Controller Card VIG-NC Copper Network Card VS-PSU-24 Power Supply Unit	042cc/04

Certificated Products		LPCB Ref. No.
	VS-BPlane Backplane VS-IDOOR-PLUS Vigilon Display Board - D.K.C VS-PRIN Printer Assembly VIG-NC-SMF Single Mode Fibre Network Card Certified with the following options with requirements from EN54-2: 7.8 Output to fire alarm device(s) 7.9.1 Output to fire alarm routing equipment 7.10.1 Output type A 7.11 Delays to outputs 7.12.2 Dependencies on more than one alarm signal - Type B 7.12.3 Dependencies on more than one alarm signal - Type C 8.3 Fault signals from points 9.5 Disablement of each address point 10 Test condition *Notes:* *1. This product approval does not constitute compliance with the fire detection and alarm systems requirements of EN 54-13.* *2. Scope of approval does not include the operation of the network functionality.*	
VIGPLUS-72	One to Six Loop Analogue Addressable Control and Indicating Panel Incorporating the following modules: VIG-LPC-EN Vigilon Loop Card VIGPLUS-MCC Local Controller Card VIG-NC Copper Network Card VS-PSU-72 Power Supply Unit VS-BPlane Backplane VS-IDOOR-PLUS Vigilon Display Board - D.K.C VS-PRIN Printer Assembly VIG-NC-SMF Single Mode Fibre Network Card Certified with the following options with requirements from EN54-2: 7.8 Output to fire alarm device(s) 7.9.1 Output to fire alarm routing equipment 7.10.1 Output type A 7.11 Delays to outputs 7.12.2 Dependencies on more than one alarm signal - Type B 7.12.3 Dependencies on more than one alarm signal - Type C 8.3 Fault signals from points 9.5 Disablement of each address point 10 Test condition *Notes:* *1. This product approval does not constitute compliance with the fire detection and alarm systems requirements of EN 54-13.* *2. Scope of approval does not include the operation of the network functionality.*	042cc/05
VIGPLUS-72-PO	One to Six Loop Analogue Addressable Control and Indicating Panel (Portuguese Language Variant) Incorporating the following modules: VIG-LPC-EN Vigilon Loop Card VIGPLUS-MCC Local Controller Card VIG-NC Copper Network Card VS-PSU-72 Power Supply Unit VS-BPlane Backplane VS-IDOOR-PLUS Vigilon Display Board - D.K.C VS-PRIN Printer Assembly VIG-NC-SMF Single Mode Fibre Network Card Certified with the following options with requirements from EN54-2: 7.8 Output to fire alarm device(s) 7.9.1 Output to fire alarm routing equipment 7.10.1 Output type A 7.11 Delays to outputs 7.12.2 Dependencies on more than one alarm signal - Type B 7.12.3 Dependencies on more than one alarm signal - Type C 8.3 Fault signals from points 9.5 Disablement of each address point 10 Test condition *Notes:* *1. This product approval does not constitute compliance with the fire detection and alarm systems requirements of EN 54-13.*	042cc/06

Certificated Products		LPCB Ref. No.
	2. Scope of approval does not include the operation of the network functionality.	
VIGPLUS-72-SP	One to Six Loop Analogue Addressable Control and Indicating Panel (Spanish Language Variant) Incorporating the following modules: VIG-LPC-EN Vigilon Loop Card VIGPLUS-MCC Local Controller Card VIG-NC Copper Network Card VS-PSU-72 Power Supply Unit VS-BPlane Backplane VS-IDOOR-PLUS Vigilon Display Board - D.K.C VS-PRIN Printer Assembly VIG-NC-SMF Single Mode Fibre Network Card Certified with the following options with requirements from EN54-2: 7.8 Output to fire alarm device(s) 7.9.1 Output to fire alarm routing equipment 7.10.1 Output type A 7.11 Delays to outputs 7.12.2 Dependencies on more than one alarm signal - Type B 7.12.3 Dependencies on more than one alarm signal - Type C 8.3 Fault signals from points 9.5 Disablement of each address point 10 Test condition *Notes:* *1. This product approval does not constitute compliance with the fire detection and alarm systems requirements of EN 54-13.* *2. Scope of approval does not include the operation of the network functionality.*	042cc/07
VIGPLUS-72-NP	One to Six Loop Analogue Addressable Control and Indicating Panel (No Printer) Incorporating the following modules: VIG-LPC-EN Vigilon Loop Card VIGPLUS-MCC Local Controller Card VIG-NC Copper Network Card VS-PSU-72 Power Supply Unit VS-BPlane Backplane VS-IDOOR-PLUS Vigilon Display Board - D.K.C VIG-NC-SMF Single Mode Fibre Network Card Certified with the following options with requirements from EN54-2: 7.8 Output to fire alarm device(s) 7.9.1 Output to fire alarm routing equipment 7.10.1 Output type A 7.11 Delays to outputs 7.12.2 Dependencies on more than one alarm signal - Type B 7.12.3 Dependencies on more than one alarm signal - Type C 8.3 Fault signals from points 9.5 Disablement of each address point 10 Test condition *Notes:* *1. This product approval does not constitute compliance with the fire detection and alarm systems requirements of EN 54-13.* *2. Scope of approval does not include the operation of the network functionality.*	042cc/08
VIGPLUS-72-NP-PO	One to Six Loop Analogue Addressable Control and Indicating Panel (Portuguese Language Variant) (No Printer) Incorporating the following modules: VIG-LPC-EN Vigilon Loop Card VIGPLUS-MCC Local Controller Card VIG-NC Copper Network Card VS-PSU-72 Power Supply Unit VS-BPlane Backplane VS-IDOOR-PLUS Vigilon Display Board - D.K.C VIG-NC-SMF Single Mode Fibre Network Card Certified with the following options with requirements from EN54-2: 7.8 Output to fire alarm device(s) 7.9.1 Output to fire alarm routing equipment 7.10.1 Output type A 7.11 Delays to outputs 7.12.2 Dependencies on more than one alarm signal - Type B 7.12.3 Dependencies on more than one alarm signal - Type C	042cc/09

Certificated Products		LPCB Ref. No.
	8.3 Fault signals from points 9.5 Disablement of each address point 10 Test condition *Notes:* *1. This product approval does not constitute compliance with the fire detection and alarm systems requirements of EN 54-13.* *2. Scope of approval does not include the operation of the network functionality.*	
VIGPLUS-72-NP-SP	One to Six Loop Analogue Addressable Control and Indicating Panel (Spanish Language Variant) (No Printer) Incorporating the following modules: VIG-LPC-EN Vigilon Loop Card VIGPLUS-MCC Local Controller Card VIG-NC Copper Network Card VS-PSU-72 Power Supply Unit VS-BPlane Backplane VS-IDOOR-PLUS Vigilon Display Board - D.K.C VIG-NC-SMF Single Mode Fibre Network Card Certified with the following options with requirements from EN54-2: 7.8 Output to fire alarm device(s) 7.9.1 Output to fire alarm routing equipment 7.10.1 Output type A 7.11 Delays to outputs 7.12.2 Dependencies on more than one alarm signal - Type B 7.12.3 Dependencies on more than one alarm signal - Type C 8.3 Fault signals from points 9.5 Disablement of each address point 10 Test condition *Notes:* *1. This product approval does not constitute compliance with the fire detection and alarm systems requirements of EN 54-13.* *2. Scope of approval does not include the operation of the network functionality.*	042cc/10

A copy of the certificate, confirming the full scope of approval including notes relating to the superscript references in the above table, may be viewed online by clicking on the product name in the associated entry on www.RedBookLive.com

Middle East Sales Enquiries

E-mail: gent.export@honeywell.com

Certificate No: 567at-(cl-1) to EN 54-2:1997 + A1:2006 and EN 54-4:1997 + A1:2002 + A2:2006

Certificated Products		LPCB Ref. No.
13270-02LB	2 zone conventional control and indicating equipment Certified with the following options from EN 54 Part 2: 1997 7.8 Output to fire alarm devices 7.11 Delays of actioning to outputs to fire alarm routing equipment 10 Test condition *Note:* *1. This product approval does not constitute compliance with the fire detection and alarm system requirements of EN54-13*	567at/01
13270-04LB	4 zone conventional control and indicating equipment Certified with the following options from EN 54 Part 2: 1997 7.8 Output to fire alarm devices 7.11 Delays of actioning to outputs to fire alarm routing equipment 10 Test condition *1. This product approval does not constitute compliance with the fire detection and alarm system requirements of EN54-13*	567at/02
13270-08LB	8 zone conventional control and indicating equipment Certified with the following options from EN 54 Part 2: 1997 7.8 Output to fire alarm devices 7.11 Delays of actioning to outputs to fire alarm routing equipment 10 Test condition *1. This product approval does not constitute compliance with the fire detection and*	567at/03

Certificated Products		LPCB Ref. No.
	alarm system requirements of EN54-13	

Gulf Alarm UK Limited

Office 32, 19-21 Crawford Street, London W1H 1PJ, United Kingdom
E-mail: info@gulfalarm.com • Website: www.gulfalarm.com

Certificate No: 1330h-(cl-5) to EN54-2: 1997 + A1: 2006 & EN54-4: 1997 + A1: 2002 + A1: 2006

Control and indicating equipment

Approved Products		LPCB Ref. No.
GA7004	1 to 4 loop Intelligent Addressable Control and Indicating Equipment Incorporating the following modules: 7010200004 TX7004 Mother Board 7020100022 TX7004 Main Board 7010700017 TX7004 Loop Board 7010400011 TX7004 Power Management Board 7010600019 TX7004 Communication Board 7010400012 TX7004 Power Wiring Board PDF-150-27.5 Power Supply Unit 7021300007 TX7004 Key Board 7020800009 TX7004 Led Board 7010300010 TX7004 Regional Display Board 814400002 TX6940E Printer Module Certified with the following options with requirements from EN54-2: 7.8 Output to fire alarm device(s) 7.10.1 Output to fire protection equipment - Type A 7.11 Delays to outputs 7.12.1 Dependencies on more than one alarm signal - Type A 7.12.2 Dependencies on more than one alarm signal - Type B 7.13 Alarm counter 9.5 Disablement of each address point 10 Test condition *Notes:* *1. The scope of the approval does not include the operation of the network functionality* *2. The product approval does not constitute compliance with the fire detection and alarm system requirements of EN54-13.*	1330h/01

A copy of the certificate, confirming the full scope of approval including notes relating to the superscript references in the above table, may be viewed online by clicking on the product name in the associated entry on www.RedBookLive.com

Gulf Security Technology Co., Ltd.

No 80 Changjiang East Road, QETDZ, Qinhuangdao, Hebei Province 066004, China
Tel: +86 0335 8502434 • Fax: +86 0335 8502532
E-mail: sales@carrier.com • Website: www.gst.com.cn

Sales Beijing:
Tel: +86 (10) 6439 1866 • Fax: +86 (10) 6439 1787

Sales Hong Kong:
Tel: +852 2877 8566 • Fax: +852 2511 8699

Control and indicating equipment

Certificate No: 548p to EN 54-2: 1997 + A1: 2006 and EN 54-4: 1997 + A1: 2002 + A2: 2006

Certificated Products		**LPCB Ref. No.**
GST200-2	Intelligent 2 Loop, 30 Zone Analogue Addressable Control and Indicating Equipment	548p/01
	Incorporating the following units: MB-220/ F7.820.826 Main board SB-220/ F7.820.827 Switch board TB-220/ F7.820.828 Loop interface board PS-220/ F7.820.829b Power supply unit ZP-220/ F7.820.312d Zone indication and intervention board LC200/ F7.820.1125 Loop board	
	Incorporating as optional modular units: P-9930/ F7.820.913a RS-232 board for configuration P-9901A Printer module kit	
	Certified with the following options with requirements from EN 54 part 2: 7.8 Output to Fire Alarm Devices 7.10.1 Output to automatic Fire Protection Equipment Type A 7.11 Delays to outputs 8.3 Fault signals from points 9.5 Disablement of addressable points	
GST-IFP8	Intelligent 8 loop, 140 zone analogue addressable control and indicating equipment *Incorporating the following units:* *SB-800 Indication board* *LCIFP8 Loop board* *PB-800 Power board* *ZP-800 ZCP board* *KB-800 Keypad board* *MB-800 Main board* *MO-800 Mother board* *PS-800 Switch Mode Power Supply SP-320-27Incorporating as optional modular units:* *P-9935 USB communication board* *P-9935Modbus RS232 ModBus Communication Card* *P-9945RP Repeater Card* *P-9945A Class A RS485 Network Card* *P-9965 Class B CAN Network Card* *P-9965A Class A CAN Network Card* *P-9904 Printer Interface Card* *Optional language variants;* *GST-IFP8-PT Portuguese language variant* *GST-IFP8-HU Hungarian language variant* *GST-IFP8-FR French language variant* *GST-IFP8-IT Italian language variant* *GST-IFP8-SP Spanish language variant* *GST-IFP8-TK Turkish language variant* *Certified with the following options with requirements from EN54 Part 2:* *7.8 Output to fire alarm devices* *7.9.1 Output to fire routing equipment* *7.9.2 Alarm confirmation input from fire routing equipment* *7.10.1 Output type A* *7.10.2 Output type B* *7.11 Delays to outputs* *7.12.1 Dependencies on more than one alarm signal - Type A* *7.12.2 Dependencies on more than one alarm signal - Type B* *7.13 Alarm counter* *8.3 Fault signals from points* *9.5 Disablement of each address point* *10 Test condition* *Notes:* *1. Scope of approval does not include the operation of the network functionality* *2. This product approval does not constitute compliance with the fire detection and alarm systems requirements of EN54-13*	548p/02
GST102A	2 Zone conventional control and indicating equipment Incorporating the following modules: FC-102A/ F7.843.399 Membrane	548p/03

Certificated Products		LPCB Ref. No.
	CB-102A/ F2.908.1719 Control board with integrated PSE DB-102A/ F2.908.1722 Display board Optional modules: GST102A-HK Traditional Chinese text variant CF-102A/ F7.843.421 Membrane Certified with the following options with requirements from EN 54 Part 2: 7.8 Output to fire alarm devices 7.9.1 Output to fire routing equipment 7.11 Delays to outputs 10 Test condition	
GST104A	4 Zone conventional control and indicating equipment Incorporating the following modules: FC-104A/ F7.843.400 Membrane CB-104A/ F2.908.1718 Control board with integrated PSE DB-104A/ F2.908.1721 Display board Optional modules: GST104A-HK Traditional Chinese text variant CF-104A/ F7.843.422 Membrane Certified with the following options with requirements from EN 54 Part 2: 7.8 Output to fire alarm devices 7.9.1 Output to fire routing equipment 7.11 Delays to outputs 10 Test condition	548p/04
GST108A	8 Zone conventional control and indicating equipment Incorporating the following modules: FC-108A/ F7.843.401 Membrane CB-108A/ F2.908.1675 Control board with integrated PSE DB-108A/ F2.908.1720 Display board Optional modules: GST108A-HK Traditional Chinese text variant CF-108A/ F7.843.423 Membrane Certified with the following options with requirements from EN 54 Part 2: 7.8 Output to fire alarm devices 7.9.1 Output to fire routing equipment 7.11 Delays to outputs 10 Test condition	548p/05
GST116A	16 Zone Conventional Control and Indicating Equipment Incorporating the following modules: FC-116A/ F7.843.402 Membrane CB-116A/ F2.908.1724 Control board with integrated PSE DB-116A/ F2.908.1676 Display board XB-116A/ F7.820.1677 Expansion board Optional modules: GST116A-HK Traditional Chinese text variant CF-116A/ F7.843.424 Membrane Certified with the following options with requirements from EN 54 Part 2: 7.8 Output to fire alarm devices 7.9.1 Output to fire routing equipment 7.11 Delays to outputs 10 Test condition	548p/06
GST200N-2	Intelligent 2 loop, 30 zone analogue addressable control and indicating equipment *Incorporating the following units:* *MB-220N Main board* *PS-220N Power management board* *OX-220 Terminal board* *ZP-220 Zone indication and intervention board* *SB-220 Switch board* *TB-220N Loop interface board* *LC200 Loop board* *PDF-150-27.5 Powered SMPS 100-240V power supply*	548p/07

Certificated Products		LPCB Ref. No.
	Incorporating as optional modular units: *P-9930 RS-232 board for configuration* *P-9901A Printer module kit* *P-9960A CAN network card loop type board* *P-9930ModBus RS232 Modbus interface card* *Certified with the following options with requirements from EN54 part 2:* *7.8 Output to Fire Alarm Devices* *7.10.1 Output to automatic Fire Protection Equipment Type A* *7.11 Delays to outputs* *8.3 Fault signals from points* *9.5 Disablement of addressable points* *Notes:* *1. Scope of approval does not include the operation of the network functionality* *2. This product approval does not constitute compliance with the fire detection and alarm systems requirements of EN54-13*	
GST200-2/1	Intelligent 1 Loop, 30 Zone Analogue Addressable Control and Indicating Equipment Incorporating the following units: MB-220/ F7.820.826 Main board SB-220/ F7.820.827 Switch board TB-220/ F7.820.828 Loop interface board PS-220/ F7.820.829b Power supply unit ZP-220/ F7.820.913a Zone indication and intervention board Incorporating as optional modular units: P-9930/ F7.820.913a RS-232 board for configuration P-9901A Printer module kit LC200/ F7.820.1125 Loop board (for loop expansion) Certified with the following options with requirements from EN 54 part 2: 7.8 Output to Fire Alarm Devices 7.10.1 Output to automatic Fire Protection Equipment Type A 7.11 Delays to outputs 8.3 Fault signals from points 9.5 Disablement of addressable points Note: can be extended to 2 loop panel by adding LC200	548p/08
GST200-2/1PT	Intelligent 1 Loop, 30 Zone Analogue Addressable Control and Indicating Equipment Incorporating the following units: MB-220/ F7.820.826 Main board SB-220/ F7.820.827 Switch board TB-220/ F7.820.828 Loop interface board PS-220/ F7.820.829b Power supply unit ZP-220/ F7.820.312d Zone indication and intervention board Incorporating as optional modular units: P-9930/ F7.820.913a RS-232 board for configuration P-9901A Printer module kit LC200/ F7.820.1125 Loop board (for loop expansion) Certified with the following options with requirements from EN 54 part 2: 7.8 Output to Fire Alarm Devices 7.10.1 Output to automatic Fire Protection Equipment Type A 7.11 Delays to outputs 8.3 Fault signals from points 9.5 Disablement of addressable points Note: Can be extended to 2-loop panel by adding LC200	548p/09
GST200-2/1HU	Intelligent 1 Loop, 30 Zone Analogue Addressable Control and Indicating Equipment (Hungarian Varient) Incorporating the following units: MB-220/ F7.820.826 Main board SB-220/ F7.820.827 Switch board TB-220/ F7.820.828 Loop interface board PS-220/ F7.820.829b Power supply unit ZP-220/ F7.820.312d Zone indication and intervention board	548p/10

Certificated Products		LPCB Ref. No.
	Incorporating as optional modular units: P-9930/ F7.820.913a RS-232 board for configuration P-9901A Printer module kit LC200/ F7.820.1125 Loop board (for loop expansion) Certified with the following options with requirements from EN 54 part 2: 7.8 Output to Fire Alarm Devices 7.10.1 Output to automatic Fire Protection Equipment Type A 7.11 Delays to outputs 8.3 Fault signals from points 9.5 Disablement of addressable points Note: Can be extended to 2-loop panel by adding LC200	
GST200N-1	Intelligent 1 Loop, 30 Zone Analogue Addressable Control and Indicating Equipment *Incorporating the following units:* *MB-220N Main board* *PS-220N Power management board* *OX-220 Terminal board* *ZP-220 Zone indication and intervention board* *SB-220 Switch board* *TB-220N Loop interface board* *PDF-150-27.5 Powered SMPS 100-240V power supply* *Incorporating as optional modular units:* *P-9930 RS-232 board for configuration* *P-9901A Printer module kit* *P-9960A CAN network card loop type board* *P-9930ModBus RS232 Modbus interface card* *Optional language variants:* *GST200N-PT Portuguese language variant* *GST200N-HU Hungarian language variant* *GST200N-FR French language variant* *GST200N-IT Italian language variant* *GST200N-SP Spanish language variant* *GST200N-TK Turkish language variant* *GST200N-HK Traditional Chinese language variant* *GST200N-RO Romanian language variant* *Certified with the following options with requirements from EN54 part 2:* *7.8 Output to Fire Alarm Devices* *7.10.1 Output to automatic Fire Protection Equipment Type A* *7.11 Delays to outputs* *8.3 Fault signals from points* *9.5 Disablement of addressable points* *Notes:* *Can be converted to 2 loops by adding LC200 Loop board* *Scope of approval does not include the operation of the network functionality* *This product approval does not constitute compliance with the fire detection and alarm systems requirements of EN54-13*	548p/11

A copy of the certificate, confirming the full scope of approval including notes relating to the superscript references in the above table, may be viewed online by clicking on the product name in the associated entry on www.RedBookLive.com

Haes Technologies Limited

Unit 3, Horton Industrial Park, West Drayton, Middlesex UB7 8JD, United Kingdom
Tel: +44 (0)1895 546205 • Fax: +44 (0)1895 420603
E-mail: sales@haes.demon.co.uk • Website: www.haes--tech.com

Certificate No: 810a to EN 54-2: 1997 + A1: 2006 and EN 54-4: 1997 + A1: 2002 + A2: 2006
Certificate No: 810m to EN 54-2: 1997 + A1: 2006 and EN 54-4: 1997 + A1: 2002 + A2: 2006

Certificated Products		**LPCB Ref. No.**
Eclipse	4 and 2 Zone conventional control and indicating equipment ECL-2 Incorporating as modular units: TPC A01- E2 Eclipse two zone main PCB applicable on 2 zone CIE only TPC A02 ZoneFinder LED display PCB PSM1.5 - 24 Power supply 1.5A rated Certified with the following options with requirements from EN 54 Part 2: 7.8 Output to fire alarm devices 7.12.1 Dependency on more than one alarm signal type A 10 Test condition ECL-4 Incorporating as modular units: TPC A01- E4 Eclipse four zone main PCB applicable on 4 zone CIE only TPC A02 Eclipse LED display PCB PSM1.5 - 24 Power supply 1.5A rated Certified with the following options with requirements from EN 54 Part 2: 7.8 Output to fire alarm devices 7.12.1 Dependency on more than one alarm signal type A 10 Test condition Note: 1. This product approval does not constitute compliance with the fire detection and alarm systems requirements of EN 54-13.	810a/03
Excel-EN	2,4, 6, 8 and 12 Zone conventional control and indicating equipment Excel-EN 2 Zone Conventional Control Panel (Manufacturers internal code XLEN-2) Incorporating as modular units: TPCA01-X 2 XLEN 2 Zone Main PCB TPCA03 XLEN Display Board PSM3.0-24 Power Supply Incorporating as optional module: TPCA05 XLEN Communications Board Excel-EN 4 Zone Conventional Control Panel (Manufacturers internal code XLEN-4) Incorporating as modular units: TPCA01-X4 XLEN 4 Zone Main PCB TPCA03 XLEN Display Board PSM3.0-24 Power Supply Excel-EN 6 Zone Conventional Control Panel (Manufacturers internal code XLEN-6H) Incorporating as modular units: TPCA01-X2 XLEN 2 Zone Main PCB TPCA03 XLEN Display Board TPCA04-H XLEN High Spec 4 Zone Extension Board PSM3.0-24 Power Supply Excel-EN 6 Zone Conventional Control Panel (Manufacturers internal code XLEN-6) Incorporating as modular units:	810a/04

Certificated Products		LPCB Ref. No.
	TPCA01-X2 XLEN 2 Zone Main PCB TPCA03 XLEN Display Board TPCA04-S XLEN Standard 4 Zone Extension Board PSM3.0-24 Power Supply Excel-EN 8 Zone Conventional Control Panel (Manufacturers internal code XLEN-8) Incorporating as modular units: TPCA01-X4 XLEN 4 Zone Main PCB TPCA03 XLEN Display Board TPCA04-H XLEN High Spec 4 Zone Extension Board PSM3.0-24 Power Supply Excel-EN 8 Zone Conventional Control Panel (Manufacturers internal code XLEN-8L) Incorporating as modular units: TPCA01-X4 XLEN 4 Zone Main PCB TPCA03 XLEN Display Board TPCA04-S XLEN Standard 4 Zone Extension Board PSM3.0-24 Power Supply Excel-EN 12 Zone Conventional Control Panel (Manufacturers internal code XLEN-12) Incorporating as modular units: TPCA01-X4 XLEN 4 Zone Main PCB TPCA03 XLEN Display Board TPCA04-S XLEN Standard 4 Zone Extension Board TPCA04-H XLEN High Spec 4 Zone Extension Board PSM3.0-24 Power Supply Excel-EN 12 Zone Conventional Control Panel (Manufacturers internal code XLEN-12L) Incorporating as modular units: TPCA01-X4 XLEN 4 Zone Main PCB TPCA03 XLEN Display Board TPCA04-S Two XLEN Standard 4 Zone Extension Board PSM3.0-24 Power Supply Excel-EN 12 Zone Conventional Control Panel (Manufacturers internal code XLEN-12H) Incorporating as modular units: TPCA01-X4 XLEN 4 Zone Main PCB TPCA03 XLEN Display Board TPCA04-H Two XLEN High Spec 4 Zone Extension Board PSM3.0-24 Power Supply Certified with the following options with requirements from EN 54 Part 2: 7.8 Output to fire alarm devices 7.11 Delays to outputs 7.12.1 Dependency on more than one alarm signal type A 7.12.2 Dependency on more than one alarm signal type B 7.12.3 Dependency on more than one alarm signal type C 10 Test condition *Note:* *1. This product approval does not constitute compliance with the fire detection and alarm systems requirements of EN 54-13.*	
AlarmSense	ALS-2 2 Zone AlarmSense conventional control and indicating equipment ALS-4 4 Zone AlarmSense conventional control and indicating equipment Incorporating as modular units: TPCA02 Eclipse LED Display & Controls Board TPCA06-A2 AlarmSense, 2 Zone main PCB TPCA06-A4 AlarmSense, 4 Zone main PCB (applicable on 4 zone CIE only) PSM1.5 - 24 Power supply 1.5A rated Certified with the following options with requirements from EN 54 Part 2: 7.8 Output to fire alarm devices 7.12.1 Dependency on more than one alarm type A 10 Test condition Note: 1. This product approval does not constitute compliance with the fire detection and alarm systems requirements of EN 54-13.	810a/05

Certificated Products		LPCB Ref. No.
AlarmSense Plus	2,4, 6, 8 and 12 Zone AlarmSense conventional control and indicating equipment ASP-2 2 Zone AlarmSense Conventional Control Panel Incorporating as modular units: TPCA03 XLEN LED Display & Controls Board TPCA06-P2 AlarmSense Plus, 2 Zone main PCB PSM3.0-24 Power Supply Incorporating as optional module: TPCA05 XLEN Communications Board ASP-4 4 Zone AlarmSense Conventional Control Panel Incorporating as modular units: TPCA03 XLEN LED Display & Controls Board TPCA06-P4 AlarmSense Plus, 4 Zone main PCB PSM3.0-24 Power Supply Incorporating as optional module: TPCA05 XLEN Communications Board ASP-6 6 Zone AlarmSense Conventional Control Panel Incorporating as modular units: TPCA03 XLEN LED Display & Controls Board TPCA06-P2 AlarmSense Plus, 2 Zone main PCB TPCA07 AlarmSense Plus, 4 zone extension card PSM3.0-24 Power Supply Incorporating as optional module: TPCA05 XLEN Communications Board ASP-8 8 Zone AlarmSense Conventional Control Panel Incorporating as modular units: TPCA03 XLEN LED Display & Controls Board TPCA06-P4 AlarmSense Plus, 4 Zone main PCB TPCA07 AlarmSense Plus, 4 zone extension card PSM3.0-24 Power Supply Incorporating as optional module: TPCA05 XLEN Communications Board ASP-12 12 Zone AlarmSense Conventional Control Panel Incorporating as modular units: TPCA03 XLEN LED Display & Controls Board TPCA06-P4 AlarmSense Plus, 4 Zone main PCB TPCA07 AlarmSense Plus, 4 zone extension card x 2 PSM3.0-24 Power Supply Incorporating as optional module: TPCA05 XLEN Communications Board Certified with the following options with requirements from EN 54 Part 2: 7.8 Output to fire alarm devices 7.11 Delays to outputs 7.12.1 Dependency on more than one alarm signal type A 7.12.2 Dependency on more than one alarm signal type B 7.12.3 Dependency on more than one alarm signal type C 10 Test condition Note: 1. This product approval does not constitute compliance with the fire detection and alarm systems requirements of EN 54-13.	810a/06
XL32	16, 24 and 32 Zone conventional control and indicating equipment	810a/08

Certificated Products		LPCB Ref. No.
	XL32-16 16 Zone Conventional Control Panel Incorporating as modular units: TPCA10 32 Zone LED display PCB TPCA11-16 16 Zone Main PCB TPCA12 Power supply PCB and as optional units: TPCR01 Relay PCB TPCR03 Isolate Switch PCB TPCA09 Sounder card PCB TPCA08 Output Card PCB TPCA05 XLEN Communications Board XL32-24 24 Zone Conventional Control Panel Incorporating as modular units: TPCA10 32 Zone LED display PCB TPCA11-24 24 Zone Main PCB TPCA12 Power supply PCB and as optional units: TPCR01 Relay PCB TPCR03 Isolate Switch PCB TPCA09 Sounder card PCB TPCA08 Output Card PCB TPCA05 XLEN Communications Board XL32-32 32 Zone Conventional Control Panel Incorporating as modular units: TPCA10 32 Zone LED display PCB TPCA11-32 32 Zone Main PCB TPCA12 Power supply PCB and as optional units: TPCR01 Relay PCB TPCR03 Isolate Switch PCB TPCA09 Sounder card PCB TPCA08 Output Card PCB TPCA05 XLEN Communications Board Certified with the following options with requirements from EN 54 Part 2: 7.8 Output to fire alarm devices 7.9.1 Output to fire alarm routing equipment 7.11 Delays to outputs 7.12.1 Dependency on more than one alarm signal type A 7.12.2 Dependency on more than one alarm signal type B 7.12.3 Dependency on more than one alarm signal type C 10 Test condition Note: 1. This product approval does not constitute compliance with the fire detection and alarm systems requirements of EN 54-13.	
ESEN-2 / 4	2 Zone conventional control and indicating equipment ESEN-2 Incorporating as modular units:TPC A01- S2 Eclipse two zone main PCB applicable on 2 zone CIE only TPC A02 Eclipse LED display PCB PSM1.5 - 24 Power supply 1.5A rated Certified with the following options with requirements from EN 54 Part 2:7.8 Output	810a/09

Certificated Products		LPCB Ref. No.
	to fire alarm devices7.12.1 Dependency on more than one alarm signal type A10 Test condition 4 Zone conventional control and indicating equipment ESEN-4 Incorporating as modular units:TPC A01- S4 Eclipse four zone main PCB applicable on 4 zone CIE only TPC A02 Eclipse LED display PCB PSM1.5 - 24 Power supply 1.5A rated Certified with the following options with requirements from EN 54 Part 2:7.8 Output to fire alarm devices7.12.1 Dependency on more than one alarm signal type A10 Test condition Note: 1. This product approval does not constitute compliance with the firedetection and alarm systems requirements of EN 54-13.	
ESEN-8	8 Zone conventional control and indicating equipment ESENTO 8 Zone Conventional Control Panel (Manufacturers internal code ESEN-8) Incorporating as modular units: TPCA01-X4 XLEN 4 Zone Main PCB TPCA03 XLEN Display Board TPCA04-H XLEN High Spec 4 Zone Extension Board PSM3.0-24 Power Supply Incorporating as optional module: TPCA05 XLEN Communications Board Certified with the following options with requirements from EN 54 Part 2: 7.8 Output to fire alarm devices 7.11 Delays to outputs 7.12.1 Dependency on more than one alarm signal type A 7.12.2 Dependency on more than one alarm signal type B 7.12.3 Dependency on more than one alarm signal type C 10 Test condition Note: This product approval does not constitute compliance with the fire detection and alarm systems requirements of EN 54-13.	810a/10
ESEN-12	12 Zone conventional control and indicating equipment ESENTO 12 Zone Conventional Control Panel (Manufacturers internal code ESEN-12) TPCA01-X4 XLEN 4 Zone Main PCB TPCA03 XLEN Display Board TPCA04-S XLEN Standard 4 Zone Extension Board TPCA04-H XLEN High Spec 4 Zone Extension Board PSM3.0-24 Power Supply Incorporating as optional module: TPCA05 XLEN Communications Board Certified with the following options with requirements from EN 54 Part 2: 7.8 Output to fire alarm devices 7.11 Delays to outputs 7.12.1 Dependency on more than one alarm signal type A 7.12.2 Dependency on more than one alarm signal type B 7.12.3 Dependency on more than one alarm signal type C 10 Test condition Note: This product approval does not constitute compliance with the fire detection and alarm systems requirements of EN 54-13.	810a/11
ESEN-16	16 Zone conventional control and indicating equipment ESENTO 16 Zone Conventional Control Panel Incorporating as modular units: TPCA10 32 Zone LED display PCB TPCA11-16 16 Zone Main PCB TPCA12 Power supply PCB	810a/12

Certificated Products		LPCB Ref. No.
	and as optional modules TPCR01 Relay PCB TPCR03 Isolate Switch PCB TPCA09 Sounder Card PCB TPCA08 Output Card PCB TPCA05 XLEN Communications Board Certified with the following options with requirements from EN 54 Part 2: 7.8 Output to fire alarm devices 7.9.1 Output to fire alarm routing equipment 7.11 Delays to outputs 7.12.1 Dependency on more than one alarm signal type A 7.12.2 Dependency on more than one alarm signal type B 7.12.3 Dependency on more than one alarm signal type C 10 Test condition Note: 1. This product approval does not constitute compliance with the fire detection and alarm systems requirements of EN 54-13.	
ESEN-24	24 Zone conventional control and indicating equipment ESENTO 24 Zone Conventional Control Panel Incorporating as modular units: TPCA10 32 Zone LED display PCB TPCA11-24 24 Zone Main PCB TPCA12 Power supply PCB and as optional modules TPCR01 Relay PCB TPCR03 Isolate Switch PCB TPCA09 Sounder Card PCB TPCA08 Output Card PCB TPCA05 XLEN Communications Board Certified with the following options with requirements from EN 54 Part 2: 7.8 Output to fire alarm devices 7.9.1 Output to fire alarm routing equipment 7.11 Delays to outputs 7.12.1 Dependency on more than one alarm signal type A 7.12.2 Dependency on more than one alarm signal type B 7.12.3 Dependency on more than one alarm signal type C 10 Test condition Note: 1. This product approval does not constitute compliance with the fire detection and alarm systems requirements of EN 54-13.	810a/13
ESEN-32	32 Zone conventional control and indicating equipment ESENTO 32 Zone Conventional Control Panel Incorporating as modular units: TPCA10 32 Zone LED display PCB TPCA11-32 32 Zone Main PCB TPCA12 Power supply PCB and as optional modules TPCR01 Relay PCB TPCR03 Isolate Switch PCB TPCA09 Sounder Card PCB TPCA08 Output Card PCB TPCA05 XLEN Communications Board Certified with the following options with requirements from EN 54 Part 2: 7.8 Output to fire alarm devices 7.9.1 Output to fire alarm routing equipment	810a/14

Certificated Products		LPCB Ref. No.
	7.11 Delays to outputs 7.12.1 Dependency on more than one alarm signal type A 7.12.2 Dependency on more than one alarm signal type B 7.12.3 Dependency on more than one alarm signal type C 10 Test condition Note: 1. This product approval does not constitute compliance with the fire detection and alarm systems requirements of EN 54-13.	
ESEN-R-12MAR	12 Zone Repeater Panel is approved for use with the ESEN 8-12 Zone Control and Indicating Equipment	810a/R01

A copy of the certificate, confirming the full scope of approval including notes relating to the superscript references in the above table, may be viewed online by clicking on the product name in the associated entry on www.RedBookLive.com

Certificate No: 810m to EN 54-2: 1997 + A1: 2006 and EN 54-4: 1997 + A1: 2002 + A2: 2006

Control and indicating equipment

Certificated Products		LPCB Ref. No.
HEC-1 / HEC-1K	HEC-1 1 Zone Conventional Fire Alarm Control Panel HEC-1K 1 Zone Conventional Fire Alarm Control Panel with Activate Control Key Switch Incorporating the following modules: RS-35-24 1.5amp Internal Power Supply Module TPCA024-1 1 Zone Main PCB Incorporating the following optional modules: SWK107 Activate Control Key Switch Certified with the following options with requirements from EN54 Part 2: 7.8 Output to fire alarm devices 10 Test condition *Notes:* *1. The scope of the approval does not include the operation of the network functionality* *2. This product approval does not constitute compliance with the fire detection and alarm systems requirements of EN 54-13.*	810m/01
HEC-2 / HEC-2K	HEC-2 2 Zone Conventional Fire Alarm Control Panel HEC-2K 2 Zone Conventional Fire Alarm Control Panel with Activate Control Key Switch Incorporating the following modules: RS-35-24 1.5amp Internal Power Supply Module TPCA024-2 2 Zone Main PCB Incorporating the following optional modules: SWK107 Activate Control Key Switch Certified with the following options with requirements from EN54 Part 2: 7.8 Output to fire alarm devices 10 Test condition *Notes:* *1. The scope of the approval does not include the operation of the network functionality* *2. This product approval does not constitute compliance with the fire detection and alarm systems requirements of EN 54-13.*	810m/02
HEC-4 / HEC-4K	HEC-4 4 Zone Conventional Fire Alarm Control Panel HEC-4K 4 Zone Conventional Fire Alarm Control Panel with Activate Control Key Switch Incorporating the following modules: RS-35-24 1.5amp Internal Power Supply Module TPCA024-4 4 Zone Main PCB Incorporating the following optional modules: SWK107 Activate Control Key Switch Certified with the following options with requirements from EN54 Part 2: 7.8 Output to fire alarm devices 10 Test condition *Notes:* *1. The scope of the approval does not include the operation of the network*	810m/03

Certificated Products		LPCB Ref. No.
	functionality *2. This product approval does not constitute compliance with the fire detection and alarm systems requirements of EN 54-13.*	
HEC-8 / HEC-8K	HEC-8 8 Zone Conventional Fire Alarm Control Panel HEC-8K 8 Zone Conventional Fire Alarm Control Panel with Activate Control Key Incorporating the following modules: RS-35-24 1.5amp Internal Power Supply Module TPCA024-8 8 Zone Main PCB TPCA025 Expansion Card Incorporating the following optional modules: SWK107 Activate Control Key Switch Certified with the following options with requirements from EN54 Part 2: 7.8 Output to fire alarm devices 10 Test condition *Notes:* *1. The scope of the approval does not include the operation of the network functionality* *2. This product approval does not constitute compliance with the fire detection and alarm systems requirements of EN 54-13.*	810m/04

A copy of the certificate, confirming the full scope of approval including notes relating to the superscript references in the above table, may be viewed online by clicking on the product name in the associated entry on www.RedBookLive.com

---

Hochiki Corporation

10-43, Kamiosaki 2 Chrome, Shinagawa-ku, Tokyo, 141-8660, Japan
Tel: (+81) 3 5488 8685
E-mail: info@hochiki.co.jp • Website: http://www.hochiki.co.jp

Certificate No: 360b-(cl-2) to EN 54-2:1997 + A1:2006, EN 54-4:1997 + A1:2002 + A2:2006

Control and indicating equipment

Certificated Products		LPCB Ref. No.
Hochiki Latitude	2 to 8 Loop Analogue Addressable Control and Indicating Equipment2 to 16 Loop Analogue Addressable Control and Indicating Equipment *Incorporating the following units:* *S721 LCD Main Processor Board* *S722 Main Back Board* *S723 Network, Ethernet & IFAM Interface Module* *S758 Dual loop Module (Hochiki protocol)* *S769 System Board A module* *S770 System Board B Module* *S771 Zone LED Board* *S787 Vision Unit* *S768 Thermal Printer Assembly* *S406-06 5.25 Amp Power Supply Unit* *Incorporating the following optional modules:* *S408 10.25 Amp Power Supply Unit* *S772 16 Channel I/O card* *S791 8w Relay card* *S792 8w conventional zone card* *S788 Media gateway card* *S793 4w sounder card* *S786 4 slot expansion board (used for extension for the optional I/O boards)* *Certified with the following Options with requirements from EN 54-2:1997* *7.8 Output to fire alarm device(s)* *7.9.1 Output to fire alarm routing equipment* *7.9.2 Alarm confirmation input from fire alarm routing equipment* *7.10.3 Output to type C* *7.10.4 Fault monitoring of fire protection equipment* *7.11 Delay to outputs* *7.12.1 Dependencies on more than one alarm signal - Type A* *7.12.2 Dependencies on more than one alarm signal - Type B*	360b/01

Certificated Products		LPCB Ref. No.
	7.12.3 Dependencies on more than one alarm signal - Type C *7.13 Alarm counter* *8.3 Fault signals from points* *8.9 Output to fault warning routing equipment* *9.5 Disablement of addressable points* *10 Test condition* *Notes:* *1. The CIE is approved with Hochiki & Argus Vega protocols via the S758 card.* *2. Scope of certification does not include the operation of the network functionality.* *3. This certificate does not constitute compliance with the fire detection and alarm systems requirements of EN 54-13.* *4. The Hochiki Latitude CIE is certified with the M5 & M6 shallow enclosure and D5 & D6 deep enclosure.*	

A copy of the certificate, confirming the full scope of approval including notes relating to the superscript references in the above table, may be viewed online by clicking on the product name in the associated entry on www.RedBookLive.com

---

Hochiki Europe (UK) Limited

Grosvenor Road, Gillingham Business Park, Gillingham, Kent ME8 0SA, United Kingdom
Tel: +44 (0)1634 260133 • Fax: +44 (0)1634 260132
E-mail: info@hochikieurope.com • Website: www.hochikieurope.com

Certificate No: 360b-(cl-1) to EN 54-2:1997 + A1: 2006, EN 54-4:1997 + A1: 2002 + A2:2006

Control and indicating equipment

Certificated Products		LPCB Ref. No.
HFP Latitude	2 to 8 Loop Analogue Addressable Control and Indicating Equipment 2 to 16 Loop Analogue Addressable Control and Indicating Equipment *Incorporating the following units:* *S721 LCD Main Processor Board* *S722 Main Back Board* *S723 Network, Ethernet & IFAM Interface Module* *S758 Dual loop Module (Hochiki protocol)* *S769 System Board A module* *S770 System Board B Module* *S771 Zone LED Board* *S787 Vision Unit* *S768 Thermal Printer Assembly* *S406-06 5.25 Amp Power Supply Unit* *Incorporating the following optional modules:* *S408 10.25 Amp Power Supply Unit* *S772 16 Channel I/O card* *S791 8w Relay card* *S792 8w conventional zone card* *S788 Media gateway card* *S793 4w sounder card* *S786 4 slot expansion board (used for extension for the optional I/O boards)* *Certified with the following Options with requirements from EN 54-2:1997* *7.8 Output to fire alarm device(s)* *7.9.1 Output to fire alarm routing equipment* *7.9.2 Alarm confirmation input from fire alarm routing equipment* *7.10.3 Output to type C* *7.10.4 Fault monitoring of fire protection equipment* *7.11 Delay to outputs* *7.12.1 Dependencies on more than one alarm signal - Type A* *7.12.2 Dependencies on more than one alarm signal - Type B* *7.12.3 Dependencies on more than one alarm signal - Type C* *7.13 Alarm counter* *8.3 Fault signals from points* *8.9 Output to fault warning routing equipment* *9.5 Disablement of addressable points* *10 Test condition*	360b/01

Certificated Products		LPCB Ref. No.

Notes:
1. The CIE is approved with Hochiki & Argus Vega protocols via the S758 card.
2. Scope of certification does not include the operation of the network functionality.
3. This certificate does not constitute compliance with the fire detection and alarm systems requirements of EN 54-13.
4. The HFP Latitude CIE is certified with the M5 & M6 shallow enclosure and D5 & D6 deep enclosure.

A copy of the certificate, confirming the full scope of approval including notes relating to the superscript references in the above table, may be viewed online by clicking on the product name in the associated entry on www.RedBookLive.com

Honeywell

Honeywell House, Arlington Business Park, Bracknell, Berkshire RG12 1EB, United Kingdom
Tel: 01344 655609 • Fax: 01344 655474
Website: www.honeywell.com

Certificate No: 154g-(cl-1) to EN 54-2: 1997 + A1: 2006, EN 54-4: 1997 + A1: 2002 + A2: 2006

Certificated Products		LPCB Ref. No.
XLS80e	Basic Equipment Kit, (BEK): Modular analogue addressable control and indicating equipment. 020-538-101 XLS80e Basic Equipment Kit, Group 1 020-538-103 XLS80e Basic Equipment Kit, Group 3 020-538-104 XLS80e Basic Equipment Kit, Group 4 020-538-105 XLS80e Basic Equipment Kit, Group 5 Incorporating the following as modular units: Enclosures: 020-040-002 Cover Kit Extended Moulded, Light / Grey 020-472-002 Backbox Kit Standard, Light Grey 020-473-002 Backbox Kit Extended, Light Grey 020-474-002 Backbox Kit Extended Deep, Light Grey 020-475-002 Backbox Kit Double Extended, Light Grey 020-476-002 Backbox Kit Double Extended Deep, Light Grey 020-480-102 Main Cover Kit, Light / Grey 020-481-002 Extension Cover Kit, Light / Grey 020-509-002 Backbox Extension Deep Assembly Light / Grey 020-621-002 256 Zone Extension Cover, Light / Grey 020-541-102 PSU7A / 78Ah Battery Enclosure Modules: 020-708-100 Extension Chassis with Printer Kit 020-644-009 Printer Assembly 020-559-101 Zone Extension Chassis Kit 1-64 Zone C/W Display Module 020-559-102 Zone Extension Chassis Kit 65-128 Zone C/W Display Module 020-612-100 Double Extended Chassis Kit 256 Zone 020-708-009 Extension Chassis with Printer 020-644-009 Printer Assembly 020-588-100 Honeywell Dual Loop Interface Board, (LIB) 020-549-100 Honeywell Dual Enhanced Loop Interface Board, (ELIB) 020-478 RS232 Interface 020-479 RS485 Interface 020-648 PSU3A 020-579 PSU7A, (Requires Dual Transmission Path / Booster, PSU Interface) 020-548 PSU7A Status Indication 020-543 Dual Transmission Path / Booster, PSU Interface 020-773 Routing Termination Unit (DEOL) 020-877 Extinguishing Interface Module M221-SI 020-643 XLS80e-NI Fibre Optic Interface Kit 020-647-100 XLS80e-NI Network Gateway Module, (NGM) for use in XLS80e Panel Certified with the following options with requirements: 7.8 Output to fire alarm devices 7.9.1 Output to fire alarm routing equipment 7.9.2 Alarm confirmation input from fire alarm routing equipment	154g/01

Certificated Products		LPCB Ref. No.
	7.10.1 Output to fire protection equipment type A 7.10.3 Output to fire protection equipment type C 7.10.4 Fault monitoring of fire protection equipment 7.11 Delays to outputs 7.12.2 Dependency on more than one alarm signal type B 7.12.3 Dependency on more than one alarm signal type C 7.13 Alarm counter 8.3 Fault signals from points 8.9 Output to fault warning routing equipment 9.5 Disablements of addressable points 10 Test condition *Note 1: Products are available in language variants as follows:* *Group 1: English, Spanish, Portuguese, Icelandic and Italian* *Group 3: English, Swedish, Danish, Norwegian and Finish* *Group 4: English, Czech and Polish* *Group 5: English and Cyrillic* *Note 2: Fixed build products incorporate a corresponding Basic Equipment Kit.*	
XLS80e-2L	Fixed build 2 loop analogue addressable control and indicating equipment. 020-692 XLS80e-2L-1, 2 Loop, PSU3A, Group 1 020-692-103 XLS80e-2L-3, 2 Loop, PSU3A, Group 3 020-692-104 XLS80e-2L-4, 2 Loop, PSU3A, Group 4 020-692-105 XLS80e-2L-5, 2 Loop, PSU3A, Group 5 Incorporating the following as modular units: Enclosures: 020-040-002 Cover Kit Extended Moulded, Light / Grey 020-472-002 Backbox Kit Standard, Light Grey 020-473-002 Backbox Kit Extended, Light Grey 020-474-002 Backbox Kit Extended Deep, Light Grey 020-475-002 Backbox Kit Double Extended, Light Grey 020-476-002 Backbox Kit Double Extended Deep, Light Grey 020-480-102 Main Cover Kit, Light / Grey 020-481-002 Extension Cover Kit, Light / Grey 020-509-002 Backbox Extension Deep Assembly Light / Grey 020-621-002 256 Zone Extension Cover, Light / Grey 020-541-102 PSU7A / 78Ah Battery Enclosure Modules: 020-708-100 Extension Chassis with Printer Kit 020-644-009 Printer Assembly 020-559-101 Zone Extension Chassis Kit 1-64 Zone C/W Display Module 020-559-102 Zone Extension Chassis Kit 65-128 Zone C/W Display Module 020-612-100 Double Extended Chassis Kit 256 Zone 020-708-009 Extension Chassis with Printer 020-644-009 Printer Assembly 020-588-100 Honeywell Dual Loop Interface Board, (LIB) 020-549-100 Honeywell Dual Enhanced Loop Interface Board, (ELIB) 020-478 RS232 Interface 020-479 RS485 Interface 020-648 PSU3A 020-579 PSU7A, (Requires Dual Transmission Path / Booster, PSU Interface) 020-548 PSU7A Status Indication 020-543 Dual Transmission Path / Booster, PSU Interface 020-773 Routing Termination Unit (DEOL) 020-877 Extinguishing Interface Module M221-SI 020-643 XLS80e-NI Fibre Optic Interface Kit 020-647-100 XLS80e-NI Network Gateway Module, (NGM) for use in XLS80e Panel Certified with the following options with requirements: 7.8 Output to fire alarm devices 7.9.1 Output to fire alarm routing equipment 7.9.2 Alarm confirmation input from fire alarm routing equipment 7.10.1 Output to fire protection equipment type A 7.10.3 Output to fire protection equipment type C 7.10.4 Fault monitoring of fire protection equipment 7.11 Delays to outputs 7.12.2 Dependency on more than one alarm signal type B 7.12.3 Dependency on more than one alarm signal type C 7.13 Alarm counter 8.3 Fault signals from points	154g/01

Certificated Products		LPCB Ref. No.
	8.9 Output to fault warning routing equipment 9.5 Disablements of addressable points 10 Test condition *Note 1: Products are available in language variants as follows:* *Group 1: English, Spanish, Portuguese, Icelandic and Italian* *Group 3: English, Swedish, Danish, Norwegian and Finish* *Group 4: English, Czech and Polish* *Group 5: English and Cyrillic*	
XLS80e-4L	*Note 2: Fixed build products incorporate a corresponding Basic Equipment Kit.* Fixed build 4 loop analogue addressable control and indicating equipment. 020-693 XLS80e-4L-1, 4 Loop, PSU3A, Group 1 020-693-103 XLS80e-4L-3, 4 Loop, PSU3A, Group 3 020-693-104 XLS80e-4L-4, 4 Loop, PSU3A, Group 4 020-693-105 XLS80e-4L-5, 4 Loop, PSU3A, Group 5 Incorporating the following as modular units: Enclosures: 020-040-002 Cover Kit Extended Moulded, Light / Grey 020-472-002 Backbox Kit Standard, Light Grey 020-473-002 Backbox Kit Extended, Light Grey 020-474-002 Backbox Kit Extended Deep, Light Grey 020-475-002 Backbox Kit Double Extended, Light Grey 020-476-002 Backbox Kit Double Extended Deep, Light Grey 020-480-102 Main Cover Kit, Light / Grey 020-481-002 Extension Cover Kit, Light / Grey 020-509-002 Backbox Extension Deep Assembly Light / Grey 020-621-002 256 Zone Extension Cover, Light / Grey 020-541-102 PSU7A / 78Ah Battery Enclosure Modules: 020-708-100 Extension Chassis with Printer Kit 020-644-009 Printer Assembly 020-559-101 Zone Extension Chassis Kit 1-64 Zone C/W Display Module 020-559-102 Zone Extension Chassis Kit 65-128 Zone C/W Display Module 020-612-100 Double Extended Chassis Kit 256 Zone 020-708-009 Extension Chassis with Printer 020-644-009 Printer Assembly 020-588-100 Honeywell Dual Loop Interface Board, (LIB) 020-549-100 Honeywell Dual Enhanced Loop Interface Board, (ELIB) 020-478 RS232 Interface 020-479 RS485 Interface 020-648 PSU3A 020-579 PSU7A, (Requires Dual Transmission Path / Booster, PSU Interface) 020-548 PSU7A Status Indication 020-543 Dual Transmission Path / Booster, PSU Interface 020-773 Routing Termination Unit (DEOL) 020-877 Extinguishing Interface Module M221-SI 020-643 XLS80e-NI Fibre Optic Interface Kit 020-647-100 XLS80e-NI Network Gateway Module, (NGM) for use in XLS80e Panel Certified with the following options with requirements: 7.8 Output to fire alarm devices 7.9.1 Output to fire alarm routing equipment 7.9.2 Alarm confirmation input from fire alarm routing equipment 7.10.1 Output to fire protection equipment type A 7.10.3 Output to fire protection equipment type C 7.10.4 Fault monitoring of fire protection equipment 7.11 Delays to outputs 7.12.2 Dependency on more than one alarm signal type B 7.12.3 Dependency on more than one alarm signal type C 7.13 Alarm counter 8.3 Fault signals from points 8.9 Output to fault warning routing equipment 9.5 Disablements of addressable points 10 Test condition *Note 1: Products are available in language variants as follows:* *Group 1: English, Spanish, Portuguese, Icelandic and Italian* *Group 3: English, Swedish, Danish, Norwegian and Finish* *Group 4: English, Czech and Polish* *Group 5: English and Cyrillic*	154g/01

Certificated Products		LPCB Ref. No.
	Note 2: Fixed build products incorporate a corresponding Basic Equipment Kit.	
XLS80e-6L	Fixed build 6 loop analogue addressable control and indicating equipment. 020-694 XLS80e-6L-1, 6 Loop, PSU7A, Group 1 020-694-103 XLS80e-6L-3, 6 Loop, PSU7A, Group 3 020-694-104 XLS80e-6L-4, 6 Loop, PSU7A, Group 4 020-694-105 XLS80e-6L-5, 6 Loop, PSU7A, Group 5 Incorporating the following as modular units: Enclosures: 020-040-002 Cover Kit Extended Moulded, Light / Grey 020-472-002 Backbox Kit Standard, Light Grey 020-473-002 Backbox Kit Extended, Light Grey 020-474-002 Backbox Kit Extended Deep, Light Grey 020-475-002 Backbox Kit Double Extended, Light Grey 020-476-002 Backbox Kit Double Extended Deep, Light Grey 020-480-102 Main Cover Kit, Light / Grey 020-481-002 Extension Cover Kit, Light / Grey 020-509-002 Backbox Extension Deep Assembly Light / Grey 020-621-002 256 Zone Extension Cover, Light / Grey 020-541-102 PSU7A / 78Ah Battery Enclosure Modules: 020-708-100 Extension Chassis with Printer Kit 020-644-009 Printer Assembly 020-559-101 Zone Extension Chassis Kit 1-64 Zone C/W Display Module 020-559-102 Zone Extension Chassis Kit 65-128 Zone C/W Display Module 020-612-100 Double Extended Chassis Kit 256 Zone 020-708-009 Extension Chassis with Printer 020-644-009 Printer Assembly 020-588-100 Honeywell Dual Loop Interface Board, (LIB) 020-549-100 Honeywell Dual Enhanced Loop Interface Board, (ELIB) 020-478 RS232 Interface 020-479 RS485 Interface 020-648 PSU3A 020-579 PSU7A, (Requires Dual Transmission Path / Booster, PSU Interface) 020-548 PSU7A Status Indication 020-543 Dual Transmission Path / Booster, PSU Interface 020-773 Routing Termination Unit (DEOL) 020-877 Extinguishing Interface Module M221-SI 020-643 XLS80e-NI Fibre Optic Interface Kit 020-647-100 XLS80e-NI Network Gateway Module, (NGM) for use in XLS80e Panel Certified with the following options with requirements: 7.8 Output to fire alarm devices 7.9.1 Output to fire alarm routing equipment 7.9.2 Alarm confirmation input from fire alarm routing equipment 7.10.1 Output to fire protection equipment type A 7.10.3 Output to fire protection equipment type C 7.10.4 Fault monitoring of fire protection equipment 7.11 Delays to outputs 7.12.2 Dependency on more than one alarm signal type B 7.12.3 Dependency on more than one alarm signal type C 7.13 Alarm counter 8.3 Fault signals from points 8.9 Output to fault warning routing equipment 9.5 Disablements of addressable points 10 Test condition *Note 1: Products are available in language variants as follows:* *Group 1: English, Spanish, Portuguese, Icelandic and Italian* *Group 3: English, Swedish, Danish, Norwegian and Finish* *Group 4: English, Czech and Polish* *Group 5: English and Cyrillic*	154g/01
	Note 2: Fixed build products incorporate a corresponding Basic Equipment Kit.	
XLS80e-8L	Fixed build 8 loop analogue addressable control and indicating equipment. 020-695 XLS80e-8L-1, 8 Loop, PSU7A, Group 1 020-695-103 XLS80e-8L-3, 8 Loop, PSU7A, Group 3 020-695-104 XLS80e-8L-4, 8 Loop, PSU7A, Group 4 020-695-105 XLS80e-8L-5, 8 Loop, PSU7A, Group 5	154g/01

Certificated Products		LPCB Ref. No.
	Incorporating the following as modular units: Enclosures: 020-040-002 Cover Kit Extended Moulded, Light / Grey 020-472-002 Backbox Kit Standard, Light Grey 020-473-002 Backbox Kit Extended, Light Grey 020-474-002 Backbox Kit Extended Deep, Light Grey 020-475-002 Backbox Kit Double Extended, Light Grey 020-476-002 Backbox Kit Double Extended Deep, Light Grey 020-480-102 Main Cover Kit, Light / Grey 020-481-002 Extension Cover Kit, Light / Grey 020-509-002 Backbox Extension Deep Assembly Light / Grey 020-621-002 256 Zone Extension Cover, Light / Grey 020-541-102 PSU7A / 78Ah Battery Enclosure Modules: 020-708-100 Extension Chassis with Printer Kit 020-644-009 Printer Assembly 020-559-101 Zone Extension Chassis Kit 1-64 Zone C/W Display Module 020-559-102 Zone Extension Chassis Kit 65-128 Zone C/W Display Module 020-612-100 Double Extended Chassis Kit 256 Zone 020-708-009 Extension Chassis with Printer 020-644-009 Printer Assembly 020-588-100 Honeywell Dual Loop Interface Board, (LIB) 020-549-100 Honeywell Dual Enhanced Loop Interface Board, (ELIB) 020-478 RS232 Interface 020-479 RS485 Interface 020-648 PSU3A 020-579 PSU7A, (Requires Dual Transmission Path / Booster, PSU Interface) 020-548 PSU7A Status Indication 020-543 Dual Transmission Path / Booster, PSU Interface 020-773 Routing Termination Unit (DEOL) 020-877 Extinguishing Interface Module M221-SI 020-643 XLS80e-NI Fibre Optic Interface Kit 020-647-100 XLS80e-NI Network Gateway Module, (NGM) for use in XLS80e Panel Certified with the following options with requirements: 7.8 Output to fire alarm devices 7.9.1 Output to fire alarm routing equipment 7.9.2 Alarm confirmation input from fire alarm routing equipment 7.10.1 Output to fire protection equipment type A 7.10.3 Output to fire protection equipment type C 7.10.4 Fault monitoring of fire protection equipment 7.11 Delays to outputs 7.12.2 Dependency on more than one alarm signal type B 7.12.3 Dependency on more than one alarm signal type C 7.13 Alarm counter 8.3 Fault signals from points 8.9 Output to fault warning routing equipment 9.5 Disablements of addressable points 10 Test condition *Note 1: Products are available in language variants as follows:* *Group 1: English, Spanish, Portuguese, Icelandic and Italian* *Group 3: English, Swedish, Danish, Norwegian and Finish* *Group 4: English, Czech and Polish* *Group 5: English and Cyrillic* *Note 2: Fixed build products incorporate a corresponding Basic Equipment Kit.*	
XLS80e-NI	002-467-002 Network Gateway Unit, (NGU) Honeywell Protocol Incorporating the following as modular units: 020-643 XLS80e- NI Fibre Optic Interface Kit 020-647-100 XLS80e-NI Network Gateway Module, (NGM) for use in XLS80e Panel 020-648 PSU3A *Note 1: Products are available in language variants as follows:* *Group 1: English, Spanish, Portuguese, Icelandic and Italian* *Group 3: English, Swedish, Danish, Norwegian and Finish* *Group 4: English, Czech and Polish* *Group 5: English and Cyrillic* *Note 2: Fixed build products incorporate a corresponding Basic Equipment Kit.*	154g/NO1

Honeywell Morley-IAS by Honeywell International (I) Pvt. Ltd.

Sector 36, Pace City - II, Gurgaon, Haryana 122004, India
Tel: +91 124 4752700 • Fax: +91 124 4752750
E-mail: amit.puri@honeywell.com • Website: www.honeywell.com

Certificate No: 550g-(cl-1) to EN54-2:1997 + A1: 2006 & EN54-4: 1997 + A1: 2002 + A2: 2006

Control and indicating equipment

Certificated Products		LPCB Ref. No.
DXc1-S	Single loop control and indicating equipment *714-001-111 PANEL DXc1-S SINGLE LOOP REGION 1 (UK & Iceland)* *714-001-112 PANEL DXc1-S SINGLE LOOP REGION 2 (Iberia, India & ME)* *714-001-113 PANEL DXc1-S SINGLE LOOP REGION 3 (Dutch, French, Italian, Slovenian)* *714-001-115 PANEL DXc1-S SINGLE LOOP REGION 5 (ASEAN, & India)* *714-001-117 PANEL DXc1-S SINGLE LOOP REGION 7 (Turkey, Poland, Romania, Czech Republic, Slovakia, Croatia, Austria, Hungary, Slovenia, Latvia, Estonia, Lithuania)* *714-001-118 PANEL DXc1-S SINGLE LOOP REGION 8 (Russia & Bulgaria)* *714-001-119 PANEL DXc1-S SINGLE LOOP REGION 9 (Greek)* *Incorporating as modular units:* *124-410-003 Base PCB 1 Loop* *124-411 Display PCB* *010-115 PSU RS-50-24*	550g/01
DXc1-M	Single loop control and indicating equipment *714-001-111 PANEL DXc1-S SINGLE LOOP REGION 1 (UK & Iceland)* *714-001-112 PANEL DXc1-S SINGLE LOOP REGION 2 (Iberia, India & ME)* *714-001-113 PANEL DXc1-S SINGLE LOOP REGION 3 (Dutch, French, Italian, Slovenian)* *714-001-115 PANEL DXc1-M SINGLE LOOP REGION 5 (ASEAN, & India)* *714-001-117 PANEL DXc1-M SINGLE LOOP REGION 7 (Turkey, Poland, Romania, Czech Republic, Slovakia, Croatia, Austria, Hungary, Slovenia, Latvia, Estonia, Lithuania)* *714-001-118 PANEL DXc1-M SINGLE LOOP REGION 8 (Russia & Bulgaria)* *714-001-119 PANEL DXc1-M SINGLE LOOP REGION 9 (Greek)* *Incorporating as modular units:* *124-410-003 Base PCB 1 Loop* *124-411 Display PCB* *010-115 PSU RS-50-24*	550g/02
DXc2-M	Two loop control and indicating equipment *714-001-221 PANEL DXc2-M TWO LOOP REGION 1 (UK & Iceland)* *714-001-222 PANEL DXc2-M TWO LOOP REGION 2 (Iberia, India & ME)* *714-001-223 PANEL DXc2-M TWO LOOP REGION 3 (Dutch, French, Italian, Slovenian)* *714-001-225 PANEL DXc2-M TWO LOOP REGION 5 (ASEAN, & India)* *714-001-227 PANEL DXc2-M TWO LOOP REGION 7 (Turkey, Poland, Romania, Czech Republic, Slovakia, Croatia, Austria, Hungary, Slovenia, Latvia, Estonia, Lithuania)* *714-001-228 PANEL DXc2-M TWO LOOP REGION 8 (Russia & Bulgaria)* *714-001-229 PANEL DXc2-M TWO LOOP REGION 9 (Greek)* *Incorporating as modular units:* *124-410-002 Base PCB 2 Loop* *124-411 Display PCB* *010-116 PSU RS-100-24*	550g/03
DXc4-M	Four loop control and indicating equipment *714-001-241 PANEL DXc4-M FOUR LOOP REGION 1 (UK & Iceland)* *714-001-242 PANEL DXc4-M FOUR LOOP REGION 2 (Iberia, India & ME)* *714-001-243 PANEL DXc4-M FOUR LOOP REGION 3 (Dutch, French, Italian, Slovenian)* *714-001-245 PANEL DXc4-M FOUR LOOP REGION 5 (ASEAN, & India)* *714-001-247 PANEL DXc4-M FOUR LOOP REGION 7 (Turkey, Poland, Romania, Czech Republic, Slovakia, Croatia, Austria, Hungary, Slovenia, Latvia, Estonia, Lithuania)* *714-001-248 PANEL DXc4-M FOUR LOOP REGION 8 (Russia & Bulgaria)* *714-001-249 PANEL DXc4-M FOUR LOOP REGION 9 (Greek)*	550g/04

Certificated Products		LPCB Ref. No.
	Incorporating as modular units: *124-410-002 Base PCB 2 Loop* *124-411 Display PCB* *124-417 2 Loop PCB* *010-116 PSU RS-100-24* *Incorporating as optional modular units:* *795-099 KIT DXc NETWORK CARD* *795-102 KIT DXc 40 ZONE LED CARD* *795-103 KIT DXc 80 ZONE LED CARD WITH COVER* *795-111 KIT DXc 2 LOOP EXPANSION CARD (Applicable to the two loop CIE only)* *795-117 KIT DXc PERFORMANCE CARD* *795-118 KIT DXc KEYSWITCH* *795-122 KIT DXc RS232* *795-123 KIT DXc RS485* *795-124 KIT DXc 80 ZONE LED CARD* *Certified with the following options with requirements from EN 54-2:* *7.8 Output to fire alarm devices* *7.11 Delays to outputs* *7.12.3 Dependencies on more than one alarm signal-Type C* *7.13 Alarm counter* *8.3 Fault signals from points* *9.5 Disablement of each addressable point* *10 Test condition* *Notes:* *1. This product approval does not constitute compliance with the fire detection and alarm systems requirements of EN 54-13.* *2. Scope of approval does not include the operation of the network functionality.*	
DXc0-S	Pre-configured Single Loop Control and Indicating Equipment *714-001-102 PANEL DXc1-S SINGLE LOOP REGION 2 (Iberia, India & ME)* *714-001-105 PANEL DXc1-S SINGLE LOOP REGION 5 (ASEAN, & India)* *714-001-107 PANEL DXc1-S SINGLE LOOP REGION 7 (Turkey, Poland, Romania, Czech Republic, Slovakia, Croatia, Austria, Hungary, Slovenia, Latvia, Estonia, Lithuania)* *714-001-108 PANEL DXc1-S SINGLE LOOP REGION 8 (Russia & Bulgaria)* *714-001-109 PANEL DXc1-S SINGLE LOOP REGION 9 (Greek)* *Incorporating as modular units:* *124-410-003 Base PCB 1 Loop* *124-411 Display PCB* *010-115 PSU RS-50-24* *Certified with the following options with requirements from EN 54-2:* *7.8 Output to fire alarm devices* *7.11 Delays to outputs* *7.12.3 Dependencies on more than one alarm signal-Type C* *7.13 Alarm counter* *8.3 Fault signals from points* *9.5 Disablement of each addressable point* *10 Test condition* *Notes:* *1. This product approval does not constitute compliance with the fire detection and alarm systems requirements of EN 54-13.* *2. Scope of approval does not include the operation of the network functionality.*	550g/05

A copy of the certificate, confirming the full scope of approval including notes relating to the superscript references in the above table, may be viewed online by clicking on the product name in the associated entry on www.RedBookLive.com

INIM Electronics S.R.L
Via Dei Lavoratori 10, Frazione Centobuchi, Monteprandone (AP) 63076, Italy
Tel: +39 0735 705007 • Fax: +39 0735 704912
E-mail: info@inim.biz • Website: www.inim.biz

Certificate No: 991k to EN 54-2:1997 + A1:2006, EN 54-4:1997 + A1:2002 + A2:2006, EN 54-21:2006 & EN 12094-1:2003

Control and indicating equipment

Certificated Products		**LPCB Ref. No.**
PREVIDIA216	2 - 16 Loop Analogue Addressable Control and Indicating Equipment and Extinguishing Control Panel (e.c.d) Incorporating the following modular units: IFM24160 CAN power-supply module IFM2L CAN module with 2 loops IFMNET CAN module for Hornet network connection IFM4R CAN module with 4 relays IFM4IO CAN module with 4 I/O IFMDIAL CAN dialler module IFM16IO CAN module with 16 I/O IFMLAN CAN LAN module IFMEXT CAN extinguishant module FPMCPU CPU module FPMLED LED module FPMLEDPRN LED module with printer FPMEXT LED module for extinguishant module Optional colour variant; PREVIDIA216R Red Cabinet Incorporating the following mechanical units: FPMNUL Blind-plate module PRCAB Spare cabinet PRCABR Spare Cabinet RED PRREP Metal box for FPMCPU assembly in REPEATER configuration PRCABSP SPACER For back cabinet PRCABSPR SPACER For back cabinet Red Colour Certified with the following options with requirements from EN 54-2:1997 + A1: 2002 + A2: 2006: 7.8 Output to fire alarm devices (option with requirements) 7.9.1 Output to fire alarm routing equipment (option with requirements) 7.9.2 Alarm confirmation input from fire alarm routing equipment (option with requirements) 7.10 Outputs to fire protection equipment (options with requirements) 7.10.1 Output type A (option with requirement) 7.10.2 Output type B (option with requirement) 7.10.3 Output type C (option with requirement) 7.10.4 Fault monitoring of fire protection equipment (option with requirement) 7.11 Delays to outputs (option with requirements) 7.12 Dependencies on more than one alarm signal (option with requirements) 7.12.1 Type A dependency (option with requirement) 7.12.2 Type B dependency (option with requirement) 7.12.3 Type C dependency (option with requirement) 7.13 Alarm Counter (option with requirements) 8.3 Fault signals from points (option with requirements) 8.9 Output to fault warning routing equipment(option with requirements) 9.5 Disablement of addressable point (option with requirements) 10 Test condition (option with requirements) Certified with the following options with requirements from EN 12094-1:2003 4.17 Delay of extinguishing signal 4.18 Signal representing the flow of extinguishing agent 4.19 Monitoring of the status of components 4.20 Emergency hold device 4.21 Control of flooding time 4.22 Initiation of secondary flooding 4.24 Triggering signals to equipment within the system	991k/01

Certificated Products		LPCB Ref. No.
	4.26 Triggering of equipment outside the system 4.27 Emergency abort device 4.28 Control of extended discharge 4.29 Release of the extinguishing media for selected flooding zones 4.30 Activation of alarm devices with different signals *Notes:* *1. Scope of approval does not include the operation of the network functionality.* *2. This product approval does not constitute compliance with the fire detection and alarm systems requirements of EN54-13.* *3. The e.c.d is approved to EN12094-1 for more than 1 flooding zone when 2 FPMCPU modules are used.* *4. The CIE is also approved when connected with FPMCPU as a CPU /Repeater module.*	

A copy of the certificate, confirming the full scope of approval including notes relating to the superscript references in the above table, may be viewed online by clicking on the product name in the associated entry on www.RedBookLive.com

---

IOT_FIRE

33 jurong west street 41, #11-41 Singapore, 649413, Singapore
Tel: +65 65270318
E-mail: Sales@iot-fire.com • Website: www.iot-fire.com

Certificate No: 1330h-(cl-6) to EN 54-2:1997 + A1:2006
EN 54-4:1997 + A1:2002 + A2:2006

Control and indicating equipment

Certificated Products		LPCB Ref. No.
SS-8888	1 to 4 loop Intelligent Addressable Control and Indicating Equipment Incorporating the following modules: 7010200004 TX7004 Mother Board 7020100022 TX7004 Main Board 7010700017 TX7004 Loop Board 7010400011 TX7004 Power Management Board 7010600019 TX7004 Communication Board 7010400012 TX7004 Power Wiring Board PDF-150-27.5 Power Supply Unit 7021300007 TX7004 Keyboard 7020800009 TX7004 Led Board 7010300010 TX7004 Regional Display Board 814400002 TX6940E Printer Module Certified with the following options with requirements from EN54-2: 7.8 Output to fire alarm device(s) 7.10.1 Output to fire protection equipment - Type A 7.11 Delays to outputs 7.12.1 Dependencies on more than one alarm signal - Type A 7.12.2 Dependencies on more than one alarm signal - Type B 7.13 Alarm counter 9.5 Disablement of each address point 10 Test condition *Notes:* *1. The scope of the approval does not include the operation of the network functionality* *2. The product approval does not constitute compliance with the fire detection and alarm system requirements of EN54-13.*	1330h/01

A copy of the certificate, confirming the full scope of approval including notes relating to the superscript references in the above table, may be viewed online by clicking on the product name in the associated entry on www.RedBookLive.com

Kentec Electronics Limited

Units 25-27, Fawkes Avenue, Questor, Dartford, Kent DA1 1JQ, United Kingdom
Tel: +44 (0)1322 222121 • Fax: +44 (0)1322 291794
E-mail: sales@kentec.co.uk • Website: www.kentec.co.uk

Certificate No: 360b to EN 54-2:1997 + A1:2006 and EN 54-4:1997 + A1:2002 + A2:2006
Certificate No: 360d to EN 54-2:1997 + A1:2006, EN 54-4:1997 + A1:2002 + A2:2006, EN 12094-1:2003

Control and indicating equipment

Certificated Products		**LPCB Ref. No.**
Taktis	2 to 8 Loop Analogue Addressable Control and Indicating Equipment 2 to 16 Loop Analogue Addressable Control and Indicating Equipment *Incorporating the following units:* *S721 LCD Main Processor Board* *S722 Main Back Board* *S723 Taktis Network, Ethernet & IFAM Interface Module* *S758 Dual loop Module* *S769 System Board A module* *S770 System Board B Module* *S771 Zone LED Board* *S787 Taktis Vision Unit* *S768 Taktis Thermal Printer Assembly* *S406-06 5.25 Amp Power Supply Unit* *Incorporating the following optional modules:* *S408-10 10.25 Amp Power Supply* *S772 16 Channel I/O card* *S791 8w Relay card* *S792 8w conventional zone card* *S788 Media gateway card* *S793 4w sounder card* *S786 4 slot expansion board (used for extension for the optional I/O boards)* *Certified with the following Options with requirements from EN 54-2:1997* *7.8 Output to fire alarm device(s)* *7.9.1 Output to fire alarm routing equipment* *7.9.2 Alarm confirmation input from fire alarm routing equipment* *7.10.3 Output to type C* *7.10.4 Fault monitoring of fire protection equipment* *7.11 Delay to outputs* *7.12.1 Dependencies on more than one alarm signal - Type A* *7.12.2 Dependencies on more than one alarm signal - Type B* *7.12.3 Dependencies on more than one alarm signal - Type C* *7.13 Alarm counter* *8.3 Fault signals from points* *8.9 Output to fault warning routing equipment* *9.5 Disablement of addressable points* *10 Test condition* *Notes:* *1. The CIE is approved with Hochiki & Argus Vega protocols via the S758 card.* *2. Scope of certification does not include the operation of the network functionality.* *3. This certificate does not constitute compliance with the fire detection and alarm systems requirements of EN 54-13.* *4. The Hochiki Latitude CIE is certified with the M5 & M6 shallow enclosure and D5 & D6 deep enclosure.*	360b/01

A copy of the certificate, confirming the full scope of approval including notes relating to the superscript references in the above table, may be viewed online by clicking on the product name in the associated entry on www.RedBookLive.com

Certificate No: 360d to EN 54-2:1997 + A1:2006 and EN 54-4:1997 + A1:2002 + A2:2006 and EN 12094-1:2003

Control and indicating equipment

Certificated Products		LPCB Ref. No.
SigmaZXT	Conventional 3 Zone Control and Indicating Equipment & 1 Flooding Zone Class A Extinguishant Control Panel (e.c.d) Incorporating the following modules: S2022 Mainboard S406 5.25 Amp Power Supply Unit S420 2 Amp Power Supply Unit The Sigma ZXT has different part numbers which are details below: K192311XM2 Conventional 3 Zone Control and Indicating Equipment & 1 Flooding Zone Class A Extinguishant Control Panel (e.c.d), Standard Enclosure, 2A PSU K192311XM3 Conventional 3 Zone Control and Indicating Equipment & 1 Flooding Zone Class A Extinguishant Control Panel (e.c.d), Large Enclosure, 2A PSU K195311XM3 Conventional 3 Zone Control and Indicating Equipment & 1 Flooding Zone Class A Extinguishant Control Panel (e.c.d), Large Enclosure, 5A PSU K192312XM2 Conventional 3 Zone Control and Indicating Equipment & 1 Flooding Zone Class A Extinguishant Control Panel (e.c.d), Standard Enclosure, 2A PSU, Nordic Key Switch K192312XM3 Conventional 3 Zone Control and Indicating Equipment & 1 Flooding Zone Class A Extinguishant Control Panel (e.c.d), Large Enclosure, 2A PSU, Nordic Key Switch K195312XM3 Conventional 3 Zone Control and Indicating Equipment & 1 Flooding Zone Class A Extinguishant Control Panel (e.c.d), Large Enclosure, 5A PSU, Nordic Key Switch Certified with the following Options with requirements from EN 54-2:1997 7.8 Output to fire alarm devices 7.11 Delays to outputs 10 Test condition Certified with the following Options with requirements from EN 12094-1:2003 4.17 Delay of extinguishing signal 4.18 Signal representing the flow of extinguishing agent 4.19 Monitoring of the status of components 4.20 Emergency hold device 4.21 Control of flooding time 4.23 Manual mode only 4.25 Extinguishing signals to spare cylinders 4.27 Emergency abort device 4.30 Activation of alarm devices with different signal *Notes:* *1. Scope of certification does not include the operation of the network functionality.* *2. This certificate does not constitute compliance with the fire detection and alarm systems requirements of EN 54-13.* *3. The Sigma ZXT is certified with the M2 (standard) & M3 (large) enclosure* *4. The S420 PSE can be fitted in either a M2 or M3 cabinet. The S406 can only be fitted in a M3 cabinet.*	360d/01

A copy of the certificate, confirming the full scope of approval including notes relating to the superscript references in the above table, may be viewed online by clicking on the product name in the associated entry on www.RedBookLive.com

---

KMW Systems S.R.L.

Str.Sambetei, Nr. 6 Iasi, , Romania
Tel: 0040232247288
E-mail: marius.gavriluta@kmw.ro

Certificate No: 1174e-(cl-7) to EN 54-2:1997 + A1:2006 & EN 54-4:1997 + A1:2002 + A2:2006
Certificate No: 1174j-(cl-4) to EN 54-2:1997 + A1:2006 & EN 54-4:1997 + A1:2002 + A2:2006

Control and indicating equipment

Certificated Products		LPCB Ref. No.
KM-FC5016	Incorporating the following units: VSL2.908.004 16 Zone Control Board VSL2.908.007 16 Zone Display Board PD-100-24 AC/DC Power Supply Module VSL2.908.005 16 Zone Signal Output Board	1174e/01

Certificated Products		LPCB Ref. No.
	Certified with the following Options with requirements from EN 54-2:1997 7.8 Output to fire alarm device(s) 7.11 Delay to outputs 10 Test condition *Note:* *1. This approval does not constitute compliance with the fire detection and alarm systems requirements of EN 54-13.*	
KM-FC5008	8 Zone Conventional Control and Indicating Equipment Incorporating the following units: VSL2.908.042 8 Zone Control Board VSL2.908.043 8 Zone Display Board PD-100-24 AC/DC Power Supply Module Certified with the following Options with requirements from EN 54-2:1997 7.8 Output to fire alarm device(s) 7.11 Delay to outputs 10 Test condition *Note:* *1. This approval does not constitute compliance with the fire detection and alarm systems requirements of EN 54-13.*	1174e/02
KM-FC5004	4 Zone Conventional Control and Indicating Equipment Incorporating the following units: VSL2.908.044 4 Zone Control Board VSL2.908.045 4 Zone Display Board PD-100-24 AC/DC Power Supply Module Certified with the following Options with requirements from EN 54-2:1997 7.8 Output to fire alarm device(s) 7.11 Delay to outputs 10 Test condition *Note:* *1. This approval does not constitute compliance with the fire detection and alarm systems requirements of EN 54-13.*	1174e/03
KM-FC5002	2 Zone Conventional Control and Indicating Equipment Incorporating the following units: VSL2.908.046 2 Zone Control Board VSL2.908.047 2 Zone Display Board PD-100-24 AC/DC Power Supply Module Certified with the following Options with requirements from EN 54-2:1997 7.8 Output to fire alarm device(s) 7.11 Delay to outputs 10 Test condition *Note:* *1. This approval does not constitute compliance with the fire detection and alarm systems requirements of EN 54-13.*	1174e/04

A copy of the certificate, confirming the full scope of approval including notes relating to the superscript references in the above table, may be viewed online by clicking on the product name in the associated entry on www.RedBookLive.com

Certificate No: 1174j-(cl-4) to EN 54-2:1997 + A1:2006 & EN 54-4:1997 + A1:2002 + A2:2006

A copy of the certificate, confirming the full scope of approval including notes relating to the superscript references in the above table, may be viewed online by clicking on the product name in the associated entry on www.RedBookLive.com

Mavili Elektronik Ticaret Ve Sanayi A.S.

Serifali Mah, Kutup Sok, No: 27:, 1-2-4 Ümraniye, Istanbul TR 34775, Turkey
Tel: +90 216 4664 505 • Fax: +90 216 4664 510
E-mail: mavili@mavili.com.tr • Website: www.mavili.com.tr

Certificate No: 926d to EN 54-2: 1997 + A1: 2006, EN 54-4: 1997 + A1: 2002 + A2: 2006
Certificate No: 926n to EN 54-2: 1997 + A1: 2006, EN 54-4: 1997 + A1: 2002 + A2: 2006, EN 12094-1: 2003

Certificated Products		LPCB Ref. No.
ML-1231.EN	Maxlogic intelligent analogue addressable 1 Loop, 127 addressable devices, 64 Zone control and indicating equipment. Incorporating the following units: MLY-1202.EN Main MCU module MLY-1203 Zone LED module MLY-1200 SLCU module MLY-0500-EN PSU unit ML-1201 Optional Network module 542.188 Optional Turkish text membrane 542.189 Optional English text membrane 542.190 Optional Russian text membrane Certified with the following options with requirements from EN 54-2:1997 7.8 Output to fire alarm device(s) 7.9.1 Output to fire alarm routing equipment 7.11 Delays to the auctioning of outputs fire alarm devices and fire routing equipment 7.12.1 Dependencies on more than one alarm signal - Type A 7.12.2 Dependencies on more than one alarm signal - Type B 7.12.3 Dependencies on more than one alarm signal - Type C 7.13 Alarm counter 8.3 Fault signals from points 9.5 Disablement of each address point 10 Test condition *Notes:* *1. Scope of approval does not include the operation of the network functionality.* *2. This product approval does not constitute compliance with the fire detection and alarm systems requirements of EN54-13.*	926d/01
ML-1241.P.EN	Maxlogic intelligent analogue addressable 1 Loop, 127addressable devices, 64 Zone control and indicating equipment with printer Incorporating the following units: MLY-1202.EN Main MCU module MLY-1203 Zone LED module MLY-1200 SLCU module MLY-0500-EN PSU unit ML-1203 Printer module ML-1201 Optional Network module 542.188 Optional Turkish text membrane 542.189 Optional English text membrane 542.190 Optional Russian text membrane Certified with the following options with requirements from EN 54-2:1997 7.8 Output to fire alarm device(s) 7.9.1 Output to fire alarm routing equipment 7.11 Delays to the auctioning of outputs fire alarm devices and fire routing equipment 7.12.1 Dependencies on more than one alarm signal - Type A 7.12.2 Dependencies on more than one alarm signal - Type B 7.12.3 Dependencies on more than one alarm signal - Type C 7.13 Alarm counter 8.3 Fault signals from points 9.5 Disablement of each address point	926d/01

Certificated Products		LPCB Ref. No.
	10 Test condition *Notes:* *1. Scope of approval does not include the operation of the network functionality.* *2. This product approval does not constitute compliance with the fire detection and alarm systems requirements of EN54-13.*	
ML-1232.EN	Maxlogic intelligent analogue addressable 2 Loop, 254 addressable devices, 64 Zone control and indicating equipment Incorporating the following units: MLY-1202.EN Main MCU module MLY-1203 Zone LED module MLY-1200 SLCU module MLY- 0500-EN PSU unit ML-1201 Optional Network module 542.188 Optional Turkish text membrane 542.189 Optional English text membrane 542.190 Optional Russian text membrane Certified with the following options with requirements from EN 54-2:1997 7.8 Output to fire alarm device(s) 7.9.1 Output to fire alarm routing equipment 7.11 Delays to the auctioning of outputs fire alarm devices and fire routing equipment 7.12.1 Dependencies on more than one alarm signal - Type A 7.12.2 Dependencies on more than one alarm signal - Type B 7.12.3 Dependencies on more than one alarm signal - Type C 7.13 Alarm counter 8.3 Fault signals from points 9.5 Disablement of each address point 10 Test condition *Notes:* *1. Scope of approval does not include the operation of the network functionality.* *2. This product approval does not constitute compliance with the fire detection and alarm systems requirements of EN54-13.*	926d/02
ML-1242.P.EN	Maxlogic intelligent analogue addressable 2 Loop, 254 addressable devices, 64 Zone control and indicating equipment with printer. Incorporating the following units: MLY-1202.EN Main MCU module MLY-1203 Zone LED module MLY-1200 SLCU module MLY- 0500-EN PSU unit ML-1203 Printer module ML-1201 Optional Network module 542.188 Optional Turkish text membrane 542.189 Optional English text membrane 542.190 Optional Russian text membrane Certified with the following options with requirements from EN 54-2:1997 7.8 Output to fire alarm device(s) 7.9.1 Output to fire alarm routing equipment 7.11 Delays to the auctioning of outputs fire alarm devices and fire routing equipment 7.12.1 Dependencies on more than one alarm signal - Type A 7.12.2 Dependencies on more than one alarm signal - Type B 7.12.3 Dependencies on more than one alarm signal - Type C 7.13 Alarm counter 8.3 Fault signals from points 9.5 Disablement of each address point 10 Test condition *Notes:* *1. Scope of approval does not include the operation of the network functionality.* *2. This product approval does not constitute compliance with the fire detection and alarm systems requirements of EN54-13.*	926d/02
ML-1233.EN	Maxlogic intelligent analogue addressable 3 Loop, 381 addressable devices, 64 Zone control and indicating equipment.	926d/03

Certificated Products		LPCB Ref. No.
	Incorporating the following units: MLY-1202.EN Main MCU module MLY-1203 Zone LED module MLY-1200 SLCU module MLY- 0500-EN PSU unit ML-1201 Optional Network module 542.188 Optional Turkish text membrane 542.189 Optional English text membrane 542.190 Optional Russian text membrane Certified with the following options with requirements from EN 54-2:1997 7.8 Output to fire alarm device(s) 7.9.1 Output to fire alarm routing equipment 7.11 Delays to the auctioning of outputs fire alarm devices and fire routing equipment 7.12.1 Dependencies on more than one alarm signal - Type A 7.12.2 Dependencies on more than one alarm signal - Type B 7.12.3 Dependencies on more than one alarm signal - Type C 7.13 Alarm counter 8.3 Fault signals from points 9.5 Disablement of each address point 10 Test condition *Notes:* *1. Scope of approval does not include the operation of the network functionality.* *2. This product approval does not constitute compliance with the fire detection and alarm systems requirements of EN54-13.*	
ML-1243.P.EN	Maxlogic intelligent analogue addressable 3 Loop, 381 addressable devices, 64 Zone control and indicating equipment with printer. Incorporating the following units: MLY-1202.EN Main MCU module MLY-1203 Zone LED module MLY-1200 SLCU module MLY- 0500-EN PSU unit ML-1203 Printer module ML-1201 Optional Network module 542.188 Optional Turkish text membrane 542.189 Optional English text membrane 542.190 Optional Russian text membrane Certified with the following options with requirements from EN 54-2:1997 7.8 Output to fire alarm device(s) 7.9.1 Output to fire alarm routing equipment 7.11 Delays to the auctioning of outputs fire alarm devices and fire routing equipment 7.12.1 Dependencies on more than one alarm signal - Type A 7.12.2 Dependencies on more than one alarm signal - Type B 7.12.3 Dependencies on more than one alarm signal - Type C 7.13 Alarm counter 8.3 Fault signals from points 9.5 Disablement of each address point 10 Test condition *Notes:* *1. Scope of approval does not include the operation of the network functionality.* *2. This product approval does not constitute compliance with the fire detection and alarm systems requirements of EN54-13.*	926d/03
ML-1234.EN	Maxlogic intelligent analogue addressable 4 Loop, 508 addressable devices, 64 Zone CIE Incorporating the following units: MLY-1202.EN Main MCU module MLY-1203 Zone LED module MLY-1200 SLCU module MLY- 0500-EN PSU unit ML-1201 Optional Network module	926d/04

Certificated Products		LPCB Ref. No.
	542.188 Optional Turkish text membrane 542.189 Optional English text membrane 542.190 Optional Russian text membrane Certified with the following options with requirements from EN 54-2:1997 7.8 Output to fire alarm device(s) 7.9.1 Output to fire alarm routing equipment 7.11 Delays to the auctioning of outputs fire alarm devices and fire routing equipment 7.12.1 Dependencies on more than one alarm signal - Type A 7.12.2 Dependencies on more than one alarm signal - Type B 7.12.3 Dependencies on more than one alarm signal - Type C 7.13 Alarm counter 8.3 Fault signals from points 9.5 Disablement of each address point 10 Test condition *Notes:* *1. Scope of approval does not include the operation of the network functionality.* *2. This product approval does not constitute compliance with the fire detection and alarm systems requirements of EN54-13.*	
ML-1244.P.EN	Maxlogic intelligent analogue addressable 4 Loop, 508 addressable devices, 64 Zone control and indicating equipment with printer. Incorporating the following units: MLY-1202.EN Main MCU module MLY-1203 Zone LED module MLY-1200 SLCU module MLY- 0500-EN PSU unit ML-1203 Printer module ML-1201 Optional Network module 542.188 Optional Turkish text membrane 542.189 Optional English text membrane 542.190 Optional Russian text membrane Certified with the following options with requirements from EN 54-2:1997 7.8 Output to fire alarm device(s) 7.9.1 Output to fire alarm routing equipment 7.11 Delays to the auctioning of outputs fire alarm devices and fire routing equipment 7.12.1 Dependencies on more than one alarm signal - Type A 7.12.2 Dependencies on more than one alarm signal - Type B 7.12.3 Dependencies on more than one alarm signal - Type C 7.13 Alarm counter 8.3 Fault signals from points 9.5 Disablement of each address point 10 Test condition *Notes:* *1. Scope of approval does not include the operation of the network functionality.* *2. This product approval does not constitute compliance with the fire detection and alarm systems requirements of EN54-13.*	926d/04
MI-22102	Maxlogic Two Zone Conventional Control and Indicating Equipment *Incorporating the units:* *ML-221XX_V1.1 / ML-22102 Main Board Module* *MLY-0511_V1 / MLY-0511 Power Supply Board* *and as optional modules:* *542.212 / ML-22102 English text membrane* *542.211 / ML-22102 Turkish text membrane* *542.213 / ML-22102 Russian text membrane* *Certified with the following options with requirements from EN 54-2: 1997* *7.8 Output to fire alarm devices*	926d/05
MI-22104	Maxlogic Four Zone Conventional Control and Indicating Equipment *Incorporating the units:* *ML-221XX_V1.1 / ML-22104 Main Board Module* *MLY-0511_V1 / MLY-0511 Power Supply Board* *and as optional modules:*	926d/06

Certificated Products		LPCB Ref. No.
	542.215 / ML-22104 English text membrane *542.214 / ML-22104 Turkish text membrane* *542.216 / ML-22104 Russian text membrane* *Certified with the following options with requirements from EN 54-2: 1997* *7.8 Output to fire alarm devices*	
MI-22108	Maxlogic Eight Zone Conventional Control and Indicating Equipment *Incorporating the units:* *ML-221XX_V1.1 / ML-22108 Main Board Module* *MLY-0511_V1 / MLY-0511 Power Supply Board* *and as optional modules:* *542.218 / ML-22108 English text membrane* *542.217 / ML-22108 Turkish text membrane* *542.219 / ML-22108 Russian text membrane*	926d/07
MI-22116	Maxlogic Sixteen Zone Conventional Control and Indicating Equipment *Incorporating the units:* *ML-221XX_V1.1 / ML-22116 Main Board Module* *ML_Zone_Extand_V1 / ML-22116 Expansion Board Module* *MLY-0511_V1 / MLY-0511 Power Supply Board* *and as optional modules:* *542.221 / ML-22116 English text membrane* *542.220 / ML-22116 Turkish text membrane* *542.222 / ML-22116 Russian text membrane* *Certified with the following options with requirements from EN 54-2: 1997* *7.8 Output to fire alarm devices*	926d/08
ML-322	Maxlogic Conventional 4 Zone Control and Indicating Equipment and 1 Flooding Zone Extinguishing Control Panel (e.c.d) *Notes:* *Incorporating the following modules:* *ML-32X41 V2.1 Main Board Module* *MLY-0511 V1 Power Supply Board* *Certified with the following options with requirements from EN 54-2:* *7.8 Output to fire alarm device(s)* *7.11 Delays to outputs* *10 Test condition* *Certified with the following options with requirements from EN 12094-1:* *4.17 Delay of extinguishing signal* *4.18 Signal representing the flow of extinguishing agent* *4.19 Monitoring of the status of components* *4.20 Emergency hold device* *4.21 Control of flooding time* *4.23 Manual only mode* *4.26 Triggering of equipment outside the system* *4.30 Activation of alarm devices with different signals*	926n/01

A copy of the certificate, confirming the full scope of approval including notes relating to the superscript references in the above table, may be viewed online by clicking on the product name in the associated entry on www.RedBookLive.com

Certificate No: 926n to EN 54-2: 1997 + A1: 2006, EN 54-4: 1997 + A1: 2002 + A2: 2006

Control and indicating equipment

Certificated Products		LPCB Ref. No.
ML-322	Maxlogic Conventional 4 Zone Control and Indicating Equipment and 1 Flooding Zone Extinguishing Control Panel (e.c.d.) Notes: Incorporating the following modules: ML-32X41_V2.1 Main Board Module MLY-0511_V1 Power Supply Board Certified with the following options with requirements from EN 54-2: 7.8 Output to fire alarm device(s) 7.11 Delays to outputs 10 Test condition	926n/01

Certificated Products		LPCB Ref. No.
	Certified with the following options with requirements from EN 12094-1: 4.17 Delay of extinguishing signal 4.18 Signal representing the flow of extinguishing agent 4.19 Monitoring of the status of components 4.20 Emergency hold device 4.21 Control of flooding time 4.23 Manual only mode 4.26 Triggering of equipment outside the system 4.30 Activation of alarm devices with different signals	

A copy of the certificate, confirming the full scope of approval including notes relating to the superscript references in the above table, may be viewed online by clicking on the product name in the associated entry on www.RedBookLive.com

Morley-IAS by Honeywell, Pittway Tecnologica Srl

Via Caboto 19/3, Trieste 34147, Italy
Tel: +44 (0)1444 230300 • Fax: +44 (0)1444 230888
E-mail: sales@morleyias.co.uk • Website: www.morley-ias.co.uk

Certificated Products		LPCB Ref. No.
ZX1Se	1 loop analogue addressable control and indicating equipment	567au/01
	722-001-301 1 loop multi-protocol control panel, language group M100 722-001-302 1 loop multi-protocol control panel, language group M200 722-002-301 1 loop multi-protocol control panel, language group M100, Stainless Steel 722-101-301 1 loop multi-protocol control panel, language group H100 722-101-302 1 loop multi-protocol control panel, language group H200 *Incorporating the following units:* *795-072-100 Morley-IAS Loop Driver Card* *795-068-100 System Sensor Loop Driver Card* *795-058-105 Hochiki Loop Driver Card* *795-066-100 Apollo XP95 / Discovery Loop Driver Card* *795-044-001 Nittan Loop Driver Card* *795-004-001 RS 485 Communication Module* *795-005 RS232 Communication Module* *124-206 Processor Card* *124-209-005 1 Loop Base Card* *124-370 4 Line Display Card* *PS82-2-NFR 2A PSU* *Certified with the following options with requirements from EN 54-2:7.8* *7.8 Output to fire alarm devices* *7.11 Delays to outputs* *7.12.3 Dependency on more than one alarm signal: Type C* *8.3 Fault signals from points* *9.5 Disablement of addressable points* *10 Test condition*	
ZX2Se	1-2 loop analogue addressable control and indicating equipment	567au/02
	720-001-301 1-2 loop multi-protocol control panel, language group M100 720-001-302 1-2 loop multi-protocol control panel, language group M200 720-002-301 1-2 loop multi-protocol control panel, language group M100, Stainless Steel 720-101-301 1-2 loop multi-protocol control panel, language group H100 720-101-302 1-2 loop multi-protocol control panel, language group H200 *Incorporating the following units:* *795-072-100 Morley-IAS Loop Driver Card* *795-068-100 System Sensor Loop Driver Card* *795-058-105 Hochiki Loop Driver Card* *795-066-100 Apollo XP95 / Discovery Loop Driver Card* *795-044-001 Nittan Loop Driver Card* *795-004-001 RS 485 Communication Module* *795-005 RS232 Communication Module* *124-206 Processor Card*	

Certificated Products		LPCB Ref. No.
	124-209-004 2 Loop Base Card *124-370 4 Line Display Card* *PS82-2-NFR 2A PSU* *Certified with the following options with requirements from EN 54-2:* *7.8 Output to fire alarm devices* *7.11 Delays to outputs* *7.12.3 Dependency on more than one alarm signal: Type C* *8.3 Fault signals from points* *9.5 Disablement of addressable points* *10 Test condition*	
ZX5Se	1-5 loop analogue addressable control and indicating equipment 721-001-301 1-5 loop multi-protocol control panel, language group M100 721-001-302 1-5 loop multi-protocol control panel, language group M200 721-002-301 1-5 loop multi-protocol control panel, language group M100, Stainless Steel 721-101-301 1-5 loop multi-protocol control panel, language group H100 721-101-302 1-5 loop multi-protocol control panel, language group H200 *Incorporating the following units:* *795-072-100 Morley-IAS Loop Driver Card* *795-068-100 System Sensor Loop Driver Card* *795-058-105 Hochiki Loop Driver Card* *795-066-100 Apollo XP95 / Discovery Loop Driver Card* *795-044-001 Nittan Loop Driver Card* *795-004-001 RS 485 Communication Module* *795-005 RS232 Communication Module* *795-077-020 20 Zone LED Display Indicator Card* *795-077-060 60 Zone LED Display Indicator Card* *795-051-001 Internal Printer Module* *124-206 Processor Card* *124-403 5 Loop Base Card* *124-370 4 Line Display Card* *PS196-4-NFR PSU* *Certified with the following options with requirements from EN 54-2:* *7.8 Output to fire alarm devices* *7.11 Delays to outputs* *7.12.3 Dependency on more than one alarm signal: Type C* *8.3 Fault signals from points* *9.5 Disablement of addressable points* *10 Test condition*	567au/03
HRZ2-8e 2 Zone	002-479-122 Language region 1, English manual 002-479-222 Language region 2 002-479-322 Language region 3, dual relay 002-492-222 Language region 2, English manual, dual relay 002-506-222 Language region 2, English manual Incorporating the following units: 020-747 8-way relay kit 020-772 4-way monitored sounder kit Certified with the following options with requirements from EN 54 Part 2: 7.8 Output to fire alarm devices 7.9.1 Output to fire alarm routing equipment 7.9.2 Alarm confirmation input from fire alarm routing equipment 7.10.1 Output to automatic fire protection equipment: Type A 7.10.3 Output to automatic fire protection equipment: Type C 7.10.4 Fault monitoring of fire protection equipment 7.11.1 Delays to outputs 7.11.2 Manual or automatic switching of delays to outputs 7.12.2 Dependency on more than one alarm signal: Type B 8.9 Output to fault warning routing equipment 10 Test condition	567au/10
HRZ2-8e 4 Zone	002-479-142 Language region 1, English manual 002-479-242 Language region 2 002-479-342 Language region 3, dual relay 002-492-242 Language region 2, English manual, dual relay 002-506-242 Language region 2, English manual Incorporating the following units:	567au/11

Certificated Products		LPCB Ref. No.
	020-747 8-way relay kit 020-772 4-way monitored sounder kit Certified with the following options with requirements from EN 54 Part 2: 7.8 Output to fire alarm devices 7.9.1 Output to fire alarm routing equipment 7.9.2 Alarm confirmation input from fire alarm routing equipment 7.10.1 Output to automatic fire protection equipment: Type A 7.10.3 Output to automatic fire protection equipment: Type C 7.10.4 Fault monitoring of fire protection equipment 7.11.1 Delays to outputs 7.11.2 Manual or automatic switching of delays to outputs 7.12.2 Dependency on more than one alarm signal: Type B 8.9 Output to fault warning routing equipment 10 Test condition	
HRZ2-8e 8 Zone	002-479-182 Language region 1, English manual 002-479-282 Language region 2 002-479-382 Language region 3, dual relay 002-492-282 Language region 2, English user manual, dual relay 002-506-282 Language region 2, English user manual Incorporating the following units: 020-747 8-way relay kit 020-772 4-way monitored sounder kit Certified with the following options with requirements from EN 54 Part 2: 7.8 Output to fire alarm devices 7.9.1 Output to fire alarm routing equipment 7.9.2 Alarm confirmation input from fire alarm routing equipment 7.10.1 Output to automatic fire protection equipment: Type A 7.10.3 Output to automatic fire protection equipment: Type C 7.10.4 Fault monitoring of fire protection equipment 7.11.1 Delays to outputs 7.11.2 Manual or automatic switching of delays to outputs 7.12.2 Dependency on more than one alarm signal: Type B 8.9 Output to fault warning routing equipment 10 Test condition	567au/12
DXc1-S	Single loop control and indicating equipment714-001-111 PANEL DXc1-S SINGLE LOOP REGION 1 (MIAS/Apollo/System Sensor protocol) 714-001-112 PANEL DXc1-S SINGLE LOOP REGION 2 (MIAS protocol) 714-001-113 PANEL DXc1-S SINGLE LOOP REGION 3 (MIAS protocol) 714-001-114 PANEL DXc1-S SINGLE LOOP REGION 4 (MIAS protocol) 714-001-115 PANEL DXc1-S SINGLE LOOP REGION 5 (MIAS protocol) Incorporating as modular units: 124-410-001 Base PCB 1 Loop 124-411 Display PCB 010-115 PSU RS-50-24 Certified with the following options with requirements from EN 54-2: 7.8 Output to fire alarm devices 7.11 Delays to outputs 7.12.2 Dependencies on more than one alarm signal - Type B 7.12.3 Dependencies on more than one alarm signal - Type C 7.13 Alarm counter 8.3 Fault signals from points 9.5 Disablement of each address points 10 Test condition Notes: 1. This product approval does not constitute compliance with the fire detection and alarm systems requirements of EN 54-13. 2. Scope of approval does not include the operation of the network functionality. 3. The regions are related to different market areas	567au/15
DXc2-M	Two loop control and indicating equipment 714-001-221 PANEL DXc2-M TWO LOOP REGION 1 (MIAS/Apollo/System Sensor protocol) 714-001-222 PANEL DXc2-M TWO LOOP REGION 2 (MIAS protocol) 714-001-223 PANEL DXc2-M TWO LOOP REGION 3 (MIAS protocol) 714-001-224 PANEL DXc2-M TWO LOOP REGION 4 (MIAS protocol) 714-001-225 PANEL DXc2-M TWO LOOP REGION 5 (MIAS protocol)	567au/16

Certificated Products		LPCB Ref. No.
	714-001-226 PANEL DXc2-M TWO LOOP REGION 6 (System Sensor protocol) Incorporating as modular units: 124-410 Base PCB 2 Loop 124-411 Display PCB 010-116 PSU RS-100-24 Incorporating as optional modular units: 124-414 DXn Zone Expansion PCB 124-429 Loop Splitter PCB 124-430 DXc System I/O PCB (note: cannot be fitted with 124-414) 124-300 RS232 I/F Certified with the following options with requirements from EN 54-2: 7.8 Output to fire alarm devices 7.9.1 Output to fire alarm routing equipment 7.9.2 Alarm confirmation input from fire alarm routing equipment 7.10.1 Output to fire protection equipment - Output type A 7.10.2 Output to fire protection equipment - Output type B 7.10.3 Output to fire protection equipment - Output type C 7.10.4 Fault monitoring of fire protection equipment 7.11 Delays to outputs 7.12.2 Dependencies on more than one alarm signal - Type B 7.12.3 Dependencies on more than one alarm signal - Type C 7.13 Alarm counter 8.3 Fault signals from points 8.9 Output to fault warning routing equipment 9.5 Disablement of each address points 10 Test condition Notes: 1. This product approval does not constitute compliance with the fire detection and alarm systems requirements of EN 54-13. 2. Scope of approval does not include the operation of the network functionality. 3. The regions are related to different market areas.	
DXc4-M	Four loop control and indicating equipment 714-001-241 PANEL DXc4-M FOUR LOOP REGION 1 (MIAS/Apollo/System Sensor protocol) 714-001-242 PANEL DXc4-M FOUR LOOP REGION 2 (MIAS protocol) 714-001-243 PANEL DXc4-M FOUR LOOP REGION 3 (MIAS protocol) 714-001-244 PANEL DXc4-M FOUR LOOP REGION 4 (MIAS protocol) 714-001-245 PANEL DXc4-M FOUR LOOP REGION 5 (MIAS protocol) Incorporating as modular units: 124-410 Base PCB 2 Loop 124-411 Display PCB 124-417 2 Loop PCB 010-116 PSU RS-100-24 Incorporating as optional modular units: 124-414 DXn Zone Expansion PCB 124-429 Loop Splitter PCB 124-430 DXc System I/O PCB (note: cannot be fitted with 124-414) 124-300 RS232 I/F Certified with the following options with requirements from EN 54-2: 7.8 Output to fire alarm devices 7.9.1 Output to fire alarm routing equipment 7.9.2 Alarm confirmation input from fire alarm routing equipment 7.10.1 Output to fire protection equipment - Output type A 7.10.2 Output to fire protection equipment - Output type B 7.10.3 Output to fire protection equipment - Output type C 7.10.4 Fault monitoring of fire protection equipment 7.11 Delays to outputs 7.12.2 Dependencies on more than one alarm signal - Type B 7.12.3 Dependencies on more than one alarm signal - Type C 7.13 Alarm counter 8.3 Fault signals from points 8.9 Output to fault warning routing equipment 9.5 Disablement of each address points	567au/17

Certificated Products		LPCB Ref. No.
	10 Test condition Notes: 1. This product approval does not constitute compliance with the fire detection and alarm systems requirements of EN 54-13. 2. Scope of approval does not include the operation of the network functionality. 3. The regions are related to different market areas.	
DXc1-M	Single loop control and indicating equipment 714-001-213 PANEL DXc1-M SINGLE LOOP REGION 3 (MIAS protocol)714-001-214 PANEL DXc1-M SINGLE LOOP REGION 4 (MIAS protocol) Incorporating as modular units: 124-410-001 Base PCB 1 Loop 124-411 Display PCB 010-115 PSU RS-50-24 Incorporating as optional modular units: 124-414 DXn Zone Expansion PCB 124-429 Loop Splitter PCB 124-430 DXc System I/O PCB (note: cannot be fitted with 124-414) 124-300 RS232 I/F Certified with the following options with requirements from EN 54-2: 7.8 Output to fire alarm devices 7.11 Delays to outputs 7.12.2 Dependencies on more than one alarm signal - Type B 7.12.3 Dependencies on more than one alarm signal - Type C 7.13 Alarm counter 8.3 Fault signals from points 9.5 Disablement of each address points 10 Test condition Notes: 1. This product approval does not constitute compliance with the fire detection and alarm systems requirements of EN 54-13. 2. Scope of approval does not include the operation of the network functionality. 3. The regions are related to different market areas.	567au/18

Certificate No: 567au-(cl-1) to EN 54-2:1997 + A1:2006, EN 54-4:1997 + A1:2002+A2:2006

Certificated Products		LPCB Ref. No.
HRZ2-8 2 Zone	2 zone conventional control and indicating equipment 002-477-122 Language region 1, light grey 002-477-129 Language region 1, black & grey 002-477-222 Language region 2, light grey 002-477-229 Language region 2, black & grey 002-477-322 Language region 3, light grey, dual relay 002-477-329 Language region 3, black & grey, dual relay, English manual 002-490-129 Language region 1, black & grey, dual relay, English manual 002-490-229 Language region 2, black & grey, dual relay, English manual 002-490-222 Language region 2, light grey, English manual Incorporating the following units: 020-747 8-Way relay kit 020-772 4-way monitored sounder kit Certified with the following options from EN 54 Part 2: 7.8 Output to fire alarm devices 7.9.1 Output to fire alarm routing equipment 7.9.2 Alarm confirmation input from fire alarm routing equipment 7.10.1 Output to automatic fire protection equipment: Type A 7.10.3 Output to automatic fire protection equipment: Type C 7.10.4 Fault monitoring of fire protection equipment 7.11.1 Delays to outputs 7.11.2 Manual or automatic switching of delays to outputs 7.12.2 Dependency on more than one alarm signal: Type B 8.9 Output to fault warning routing equipment 10 Test condition *Notes:*	567au/10

Certificated Products		LPCB Ref. No.
	1. Fixed build products incorporate a corresponding Basic equipment Kit. *2. Scope of approval does not include the operation of the network functionality* *3. This product approval does not constitute compliance with the fire detection and alarm system requirements of EN54-13.*	
HRZ2-8 4 Zone	4 zone conventional control and indicating equipment 002-477-142 Language region 1, light grey 002-477-149 Language region 1, black & grey 002-477-242 Language region 2, light grey 002-477-249 Language region 2, black & grey 002-477-342 Language region 3, light grey, dual relay 002-477-349 Language region 3, black & grey, dual relay 002-490-149 Language region 1, black & grey, dual relay, English manual 002-490-249 Language region 2, black & grey, dual relay, English manual 002-490-242 Language region 2, light grey, English manual Incorporating the following units: 020-747 8-Way relay kit 020-772 4-way monitored sounder kit Certified with the following options from EN 54 Part 2: 7.8 Output to fire alarm devices 7.9.1 Output to fire alarm routing equipment 7.9.2 Alarm confirmation input from fire alarm routing equipment 7.10.1 Output to automatic fire protection equipment: Type A 7.10.3 Output to automatic fire protection equipment: Type C 7.10.4 Fault monitoring of fire protection equipment 7.11.1 Delays to outputs 7.11.2 Manual or automatic switching of delays to outputs 7.12.2 Dependency on more than one alarm signal: Type B 8.9 Output to fault warning routing equipment 10 Test condition *Notes: 1. Fixed build products incorporate a corresponding Basic equipment Kit.* *2. Scope of approval does not include the operation of the network functionality* *3. This product approval does not constitute compliance with the fire detection and alarm system requirements of EN54-13.*	567au/11
HRZ2-8 8 Zone	8 zone conventional control and indicating equipment 002-477-182 Language region 1, light grey 002-477-189 Language region 1, black & grey 002-477-282 Language region 2, light grey 002-477-289 Language region 2, black & grey 002-477-382 Language region 3, light grey, dual relay 002-477-389 Language region 3, black & grey, dual relay 002-490-189 Language region 1, black & grey, dual relay, English manual 002-490-289 Language region 2, black & grey, dual relay, English manual 002-490-282 Language region 2, light grey, English manual Incorporating the following units: 020-747 8-Way relay kit 020-772 4-way monitored sounder kit Certified with the following options from EN 54 Part 2: 7.8 Output to fire alarm devices 7.9.1 Output to fire alarm routing equipment 7.9.2 Alarm confirmation input from fire alarm routing equipment 7.10.1 Output to automatic fire protection equipment: Type A 7.10.3 Output to automatic fire protection equipment: Type C 7.10.4 Fault monitoring of fire protection equipment 7.11.1 Delays to outputs 7.11.2 Manual or automatic switching of delays to outputs 7.12.2 Dependency on more than one alarm signal: Type B 8.9 Output to fault warning routing equipment 10 Test condition *Notes:1. Fixed build products incorporate a corresponding Basic equipment Kit.* *2. Scope of approval does not include the operation of the network functionality* *3. This product approval does not constitute compliance with the fire detection and alarm system requirements of EN54-13.*	567au/12
DXc1-S	Single loop control and indicating equipment 714-001-111 PANEL DXc1-S SINGLE LOOP REGION 1(MIAS/Apollo/System Sensor protocol) 714-001-112 PANEL DXc1-S SINGLE LOOP REGION 2 (MIAS protocol) 714-001-113 PANEL DXc1-S SINGLE LOOP REGION 3 (MIAS protocol) 714-001-114 PANEL DXc1-S SINGLE LOOP REGION 4 (MIAS protocol) 714-001-115 PANEL DXc1-S SINGLE LOOP REGION 5 (MIAS protocol)	567au/15

Certificated Products		LPCB Ref. No.
	Incorporating as modular units: 124-410-001 Base PCB 1 Loop 124-411 Display PCB 010-115 PSU RS-50-24 Certified with the following options with requirements from EN 54-2: 7.8 Output to fire alarm devices 7.11 Delays to outputs 7.12.2 Dependencies on more than one alarm signal - Type B 7.12.3 Dependencies on more than one alarm signal - Type C 7.13 Alarm counter 8.3 Fault signals from points 9.5 Disablement of each address points 10 Test condition *Notes:* *1. This product approval does not constitute compliance with the fire detection and alarm systems requirements of EN 54-13.* *2. Scope of approval does not include the operation of the network functionality.* *3. The regions are related to different market areas*	
DXc2-M	Two loop control and indicating equipment 714-001-221 PANEL DXc2-M TWO LOOP REGION 1 (MIAS/Apollo/System Sensor protocol) 714-001-222 PANEL DXc2-M TWO LOOP REGION 2 (MIAS protocol) 714-001-223 PANEL DXc2-M TWO LOOP REGION 3 (MIAS protocol) 714-001-224 PANEL DXc2-M TWO LOOP REGION 4 (MIAS protocol) 714-001-225 PANEL DXc2-M TWO LOOP REGION 5 (MIAS protocol) 714-001-226 PANEL DXc2-M TWO LOOP REGION 6 (System Sensor protocol) Incorporating as modular units: 124-410 Base PCB 2 Loop 124-411 Display PCB 010-116 PSU RS-100-24 Incorporating as optional modular units: 124-414 DXn Zone Expansion PCB 124-429 Loop Splitter PCB 124-430 DXc System I/O PCB (note: cannot be fitted with 124-414) 124-300 RS232 I/F Certified with the following options with requirements from EN 54-2: 7.8 Output to fire alarm devices 7.9.1 Output to fire alarm routing equipment 7.9.2 Alarm confirmation input from fire alarm routing equipment 7.10.1 Output to fire protection equipment - Output type A 7.10.2 Output to fire protection equipment - Output type B 7.10.3 Output to fire protection equipment - Output type C 7.10.4 Fault monitoring of fire protection equipment 7.11 Delays to outputs 7.12.2 Dependencies on more than one alarm signal - Type B 7.12.3 Dependencies on more than one alarm signal - Type C 7.13 Alarm counter 8.3 Fault signals from points 8.9 Output to fault warning routing equipment 9.5 Disablement of each address points 10 Test condition *Notes:* *1. This product approval does not constitute compliance with the fire detection and alarm systems requirements of EN 54-13.* *2. Scope of approval does not include the operation of the network functionality.* *3. The regions are related to different market areas.*	567au/16
DXc4-M	Four loop control and indicating equipment 714-001-241 PANEL DXc4-M FOUR LOOP REGION 1 (MIAS/Apollo/System Sensor protocol) 714-001-242 PANEL DXc4-M FOUR LOOP REGION 2 (MIAS protocol) 714-001-243 PANEL DXc4-M FOUR LOOP REGION 3 (MIAS protocol) 714-001-244 PANEL DXc4-M FOUR LOOP REGION 4 (MIAS protocol) 714-001-245 PANEL DXc4-M FOUR LOOP REGION 5 (MIAS protocol) Incorporating as modular units: 124-410 Base PCB 2 Loop	567au/17

Certificated Products		LPCB Ref. No.
	124-411 Display PCB 124-417 2 Loop PCB 010-116 PSU RS-100-24 Incorporating as optional modular units: 124-414 DXn Zone Expansion PCB 124-429 Loop Splitter PCB 124-430 DXc System I/O PCB (note: cannot be fitted with 124-414) 124-300 RS232 I/F Certified with the following options with requirements from EN 54-2: 7.8 Output to fire alarm devices 7.9.1 Output to fire alarm routing equipment 7.9.2 Alarm confirmation input from fire alarm routing equipment 7.10.1 Output to fire protection equipment - Output type A 7.10.2 Output to fire protection equipment - Output type B 7.10.3 Output to fire protection equipment - Output type C 7.10.4 Fault monitoring of fire protection equipment 7.11 Delays to outputs 7.12.2 Dependencies on more than one alarm signal - Type B 7.12.3 Dependencies on more than one alarm signal - Type C 7.13 Alarm counter 8.3 Fault signals from points 8.9 Output to fault warning routing equipment 9.5 Disablement of each address points 10 Test condition *Notes:* *1. This product approval does not constitute compliance with the fire detection and alarm systems requirements of EN 54-13.* *2. Scope of approval does not include the operation of the network functionality.* *3. The regions are related to different market areas.*	
DXc1-M	Single loop control and indicating equipment 714-001-213 PANEL DXc1-M SINGLE LOOP REGION 3 (MIAS protocol) 714-001-214 PANEL DXc1-M SINGLE LOOP REGION 4 (MIAS protocol) Incorporating as modular units: 124-410-001 Base PCB 1 Loop 124-411 Display PCB 010-115 PSU RS-50-24 Incorporating as optional modular units: 124-414 DXn Zone Expansion PCB 124-429 Loop Splitter PCB 124-430 DXc System I/O PCB (note: cannot be fitted with 124-414) 124-300 RS232 I/F Certified with the following options with requirements from EN 54-2: 7.8 Output to fire alarm devices 7.11 Delays to outputs 7.12.2 Dependencies on more than one alarm signal - Type B 7.12.3 Dependencies on more than one alarm signal - Type C 7.13 Alarm counter 8.3 Fault signals from points 9.5 Disablement of each address points 10 Test condition *Notes:* *1. This product approval does not constitute compliance with the fire detection and alarm systems requirements of EN 54-13.* *2. Scope of approval does not include the operation of the network functionality.* *3. The regions are related to different market areas.*	567au/18

A copy of the certificate, confirming the full scope of approval including notes relating to the superscript references in the above table, may be viewed online by clicking on the product name in the associated entry on www.RedBookLive.com

Multron Systems Pte Ltd

217 Kallang Bahru #02-00, Multron Building, Singapore 339 347, Singapore
Tel: +65 6743 2555 / 6395 6868 • Fax: +65 6743 2777 / 6395 6869
E-mail: info@multron.com • Website: www.multron.com

Certificate No: 1330h-(cl-3) to EN 54-2:1997 + A1:2006 EN 54-4:1997 + A1:2002 + A2:2006
Certificate No: 1330h-(cl-3) to EN54-2: 1997 + A1: 2006 & EN54-4: 1997 + A1: 2002 + A2: 2006

Certificated Products		LPCB Ref. No.
MX704	1 to 4 loop Intelligent Addressable Control and Indicating Equipment *Incorporating the following modules:* *7010200004 Mother Board* *7020100022 Main Board* *7010700017 Loop Board* *7010400011 Power Management Board* *7010600019 Communication Board* *7010400012 Power Wiring Board* *PDF-150-27.5 Power Supply Unit* *7021300007 Key Board* *7020800009 Led Board* *7010300010 Regional Display Board* *814400002 Printer Module* *Certified with the following options with requirements from EN54-2:* *7.8 Output to fire alarm device(s)* *7.10.1 Output to fire protection equipment - Type A* *7.11 Delays to outputs* *7.12.1 Dependencies on more than one alarm signal - Type A* *7.12.2 Dependencies on more than one alarm signal - Type B* *7.13 Alarm counter* *9.5 Disablement of each address point* *10 Test condition* *Notes:* *1. The scope of the approval does not include the operation of the network functionality* *2. The product approval does not constitute compliance with the fire detection and alarm system requirements of EN54-13.*	1330h/01

A copy of the certificate, confirming the full scope of approval including notes relating to the superscript references in the above table, may be viewed online by clicking on the product name in the associated entry on www.RedBookLive.com

Notifier by Honeywell, Pittway Tecnologica Srl

Via Caboto 19/3, Trieste 34147, Italy
Tel: +44 (0)1444 230300 • Fax: +44 (0)1444 230888
E-mail: sales@notifiersystems.co.uk • Website: www.notifierfiresystems.co.uk

Certificated Products		LPCB Ref. No.
ID3000	Basic Equipment Kit, (BEK): Modular analogue addressable control and indicating equipment. 020-538 Basic Equipment Kit ID3000, Group 0 020-538-001 ID3000 Basic Equipment Kit, Group 1 020-538-003 ID3000 Basic Equipment Kit, Group 3 020-538-004 ID3000 Basic Equipment Kit, Group 4 020-538-005 ID3000 Basic Equipment Kit, Group 5 Incorporating the following as modular units:	567au/04

Certificated Products		LPCB Ref. No.

Enclosures:

020-472-009	Backbox Kit Standard, Black / Grey
020-473-009	Backbox Kit Extended, Black / Grey
020-474-009	Backbox Kit Extended Deep, Black / Grey
020-475-009	Backbox Kit Double Extended, Black / Grey
020-476-009	Backbox Kit Double Extended Deep, Black / Grey
020-480-009	Cover Kit Main Moulded, Black / Grey
020-481-009	Cover Kit Extended Moulded, Black / Grey
020-508-009	Backbox Extension Standard Assembly Black / Grey
020-509-009	Backbox Extension Deep Assembly Black / Grey
020-513-009	High Security Cover Kit Main, Black / Grey
020-514-009	High Security Cover Kit Extension
020-576	Main Cover, Stainless Steel
020-577	Extension Cover Stainless Steel
020-621-256	Zone Extension Cover, Stainless / Steel
020-621-009	256 Zone Extension Cover, Black / Grey
020-541-009	PSU7A / 78Ah Battery Enclosure

Modules:

020-559-001	Zone Extension Chassis Kit 1-64 Zone C/W Display Module
020-559-002	Zone Extension Chassis Kit 65-128 Zone C/W Display Module
020-612	Double Extended Chassis Kit 256 Zone
020-708-009	Extension Chassis with Printer
020-644-009	Printer Assembly
020-588	Notifier Dual Loop Interface Board, (LIB)
020-549	Notifier Dual Enhanced Loop Interface Board, (ELIB)
020-478	RS232 Interface
020-479	RS485 Interface
020-648	PSU3A
020-579	PSU7A, (Requires Dual Transmission Path / Booster, PSU Interface)
020-548	PSU7A Status Indication
020-543	Dual Transmission Path / Booster, PSU Interface
020-773	Routing Termination Unit (DEOL)
020-877	Extinguishing Interface Module M221-SI
020-643	ID²net Fibre Optic Interface Kit
020-647	ID²net Network Gateway Module, (NGM) for use in ID3000 Panel

Note 1: Products are available in language variants as follows:

Group 0: English and Icelandic, with English manuals
Group 1: English, Spanish, Portuguese, Icelandic and Italian
Group 3: English, Swedish, Danish, Norwegian and Finish
Group 4: English and Polish
Group 5: English and Cyrillic

Note 2: Fixed build products incorporate a corresponding Basic Equipment Kit.

ID3002

Fixed build 2 loop analogue addressable control and indicating equipment. 567au/04

002-473	ID3002, 2 Loop, PSU3A, Group 0, Red
002-474	ID3002, 2 Loop, PSU3A, Group 0
002-474-001	ID3002, 2 Loop, PSU3A, Group 1
002-474-003	ID3002, 2 Loop, PSU3A, Group 3
002-474-004	ID3002, 2 Loop, PSU3A, Group 4
002-474-005	ID3002, 2 Loop, PSU3A, Group 5

Incorporating the following as modular units:

Enclosures:

020-472-009	Backbox Kit Standard, Black / Grey
020-473-009	Backbox Kit Extended, Black / Grey
020-474-009	Backbox Kit Extended Deep, Black / Grey
020-475-009	Backbox Kit Double Extended, Black / Grey
020-476-009	Backbox Kit Double Extended Deep, Black / Grey
020-480-009	Cover Kit Main Moulded, Black / Grey
020-481-009	Cover Kit Extended Moulded, Black / Grey

Certificated Products		LPCB Ref. No.
	020-508-009 Backbox Extension Standard Assembly Black / Grey 020-509-009 Backbox Extension Deep Assembly Black / Grey 020-513-009 High Security Cover Kit Main, Black / Grey 020-514-009 High Security Cover Kit Extension 020-576 Main Cover, Stainless Steel 020-577 Extension Cover Stainless Steel 020-621-256 Zone Extension Cover, Stainless / Steel 020-621-009 256 Zone Extension Cover, Black / Grey 020-541-009 PSU7A / 78Ah Battery Enclosure Modules: 020-559-001 Zone Extension Chassis Kit 1-64 Zone C/W Display Module 020-559-002 Zone Extension Chassis Kit 65-128 Zone C/W Display Module 020-612 Double Extended Chassis Kit 256 Zone 020-708-009 Extension Chassis with Printer 020-644-009 Printer Assembly 020-588 Notifier Dual Loop Interface Board, (LIB) 020-549 Notifier Dual Enhanced Loop Interface Board, (ELIB) 020-478 RS232 Interface 020-479 RS485 Interface 020-648 PSU3A 020-579 PSU7A, (Requires Dual Transmission Path / Booster, PSU Interface) 020-548 PSU7A Status Indication 020-543 Dual Transmission Path / Booster, PSU Interface 020-773 Routing Termination Unit (DEOL) 020-877 Extinguishing Interface Module M221-SI 020-643 ID²net Fibre Optic Interface Kit 020-647 ID²net Network Gateway Module, (NGM) for use in ID3000 Panel Note 1: Products are available in language variants as follows: Group 0: English and Icelandic, with English manuals Group 1: English, Spanish, Portuguese, Icelandic and Italian Group 3: English, Swedish, Danish, Norwegian and Finish Group 4: English and Polish Group 5: English and Cyrillic Note 2: Fixed build products incorporate a corresponding Basic Equipment Kit.	
ID3004	Fixed build 4 loop analogue addressable control and indicating equipment. 020-727 ID3004, 4 Loop, PSU7A, Group 0, LIB 020-728 ID3004, 4 Loop, PSU7A, Group 0, ELIB 020-729 ID3004, 4 Loop, PSU7A, Group 0, LIB, printer 020-730 ID3004, 4 Loop, PSU7A, Group 0, LIB, 64 zone LED Incorporating the following as modular units: Enclosures: 020-472-009 Backbox Kit Standard, Black / Grey 020-473-009 Backbox Kit Extended, Black / Grey 020-474-009 Backbox Kit Extended Deep, Black / Grey 020-475-009 Backbox Kit Double Extended, Black / Grey 020-476-009 Backbox Kit Double Extended Deep, Black / Grey 020-480-009 Cover Kit Main Moulded, Black / Grey 020-481-009 Cover Kit Extended Moulded, Black / Grey 020-508-009 Backbox Extension Standard Assembly Black / Grey 020-509-009 Backbox Extension Deep Assembly Black / Grey 020-513-009 High Security Cover Kit Main, Black / Grey 020-514-009 High Security Cover Kit Extension 020-576 Main Cover, Stainless Steel 020-577 Extension Cover Stainless Steel 020-621-256 Zone Extension Cover, Stainless / Steel 020-621-009 256 Zone Extension Cover, Black / Grey 020-541-009 PSU7A / 78Ah Battery Enclosure Modules: 020-559-001 Zone Extension Chassis Kit 1-64 Zone C/W Display Module 020-559-002 Zone Extension Chassis Kit 65-128 Zone	567au/04

Certificated Products		LPCB Ref. No.
	C/W Display Module 020-612 Double Extended Chassis Kit 256 Zone 020-708-009 Extension Chassis with Printer 020-644-009 Printer Assembly 020-588 Notifier Dual Loop Interface Board, (LIB) 020-549 Notifier Dual Enhanced Loop Interface Board, (ELIB) 020-478 RS232 Interface 020-479 RS485 Interface 020-648 PSU3A 020-579 PSU7A, (Requires Dual Transmission Path / Booster, PSU Interface) 020-548 PSU7A Status Indication 020-543 Dual Transmission Path / Booster, PSU Interface 020-773 Routing Termination Unit (DEOL) 020-877 Extinguishing Interface Module M221-SI 020-643 ID²net Fibre Optic Interface Kit 020-647 ID²net Network Gateway Module, (NGM) for use in ID3000 Panel Note 1: Products are available in language variants as follows: Group 0: English and Icelandic, with English manuals Group 1: English, Spanish, Portuguese, Icelandic and Italian Group 3: English, Swedish, Danish, Norwegian and Finish Group 4: English and Polish Group 5: English and Cyrillic Note 2: Fixed build products incorporate a corresponding Basic Equipment Kit.	
ID3006	Fixed build 6 loop analogue addressable control and indicating equipment. 020-731 ID3006, 6 Loop, PSU7A, Group 0, 2xLIB 020-732 ID3006, 6 Loop, PSU7A, Group 0, 2xELIB 020-733 ID3006, 6 Loop, PSU7A, Group 0, 2xLIB, printer 020-734 ID3006, 6 Loop, PSU7A, Group 0, 2xLIB, 64 zone LED Incorporating the following as modular units: Enclosures: 020-472-009 Backbox Kit Standard, Black / Grey 020-473-009 Backbox Kit Extended, Black / Grey 020-474-009 Backbox Kit Extended Deep, Black / Grey 020-475-009 Backbox Kit Double Extended, Black / Grey 020-476-009 Backbox Kit Double Extended Deep, Black / Grey 020-480-009 Cover Kit Main Moulded, Black / Grey 020-481-009 Cover Kit Extended Moulded, Black / Grey 020-508-009 Backbox Extension Standard Assembly Black / Grey 020-509-009 Backbox Extension Deep Assembly Black / Grey 020-513-009 High Security Cover Kit Main, Black / Grey 020-514-009 High Security Cover Kit Extension 020-576 Main Cover, Stainless Steel 020-577 Extension Cover Stainless Steel 020-621-256 Zone Extension Cover, Stainless / Steel 020-621-009 256 Zone Extension Cover, Black / Grey 020-541-009 PSU7A / 78Ah Battery Enclosure Modules: 020-559-001 Zone Extension Chassis Kit 1-64 Zone C/W Display Module 020-559-002 Zone Extension Chassis Kit 65-128 Zone C/W Display Module 020-612 Double Extended Chassis Kit 256 Zone 020-708-009 Extension Chassis with Printer 020-644-009 Printer Assembly 020-588 Notifier Dual Loop Interface Board, (LIB) 020-549 Notifier Dual Enhanced Loop Interface Board, (ELIB) 020-478 RS232 Interface 020-479 RS485 Interface 020-648 PSU3A 020-579 PSU7A, (Requires Dual Transmission Path / Booster, PSU Interface) 020-548 PSU7A Status Indication 020-543 Dual Transmission Path / Booster, PSU Interface	567au/04

Certificated Products		LPCB Ref. No.

020-773 Routing Termination Unit (DEOL)
020-877 Extinguishing Interface Module M221-SI
020-643 ID²net Fibre Optic Interface Kit
020-647 ID²net Network Gateway Module, (NGM) for use in ID3000 Panel

Note 1: Products are available in language variants as follows:

Group 0: English and Icelandic, with English manuals
Group 1: English, Spanish, Portuguese, Icelandic and Italian
Group 3: English, Swedish, Danish, Norwegian and Finish
Group 4: English and Polish
Group 5: English and Cyrillic

Note 2: Fixed build products incorporate a corresponding Basic Equipment Kit.

ID3008 — Fixed build 8 loop analogue addressable control and indicating equipment. — 567au/04

020-735 ID3008, 8 Loop, PSU7A, Group 0, 3xLIB, 78Ah Battery Enclosure
020-736 ID3008, 8 Loop, PSU7A, Group 0, 3xELIB, 78Ah Battery Enclosure
020-737 ID3008, 8 Loop, PSU7A, Group 0, 3xLIB, 78Ah Battery Enclosure, Printer
020-738 ID3008, 8 Loop, PSU7A, Group 0, 3xLIB, 78Ah Battery enclosure, printer, 64 Zone LED

Incorporating the following as modular units:

Enclosures:

020-472-009	Backbox Kit Standard, Black / Grey
020-473-009	Backbox Kit Extended, Black / Grey
020-474-009	Backbox Kit Extended Deep, Black / Grey
020-475-009	Backbox Kit Double Extended, Black / Grey
020-476-009	Backbox Kit Double Extended Deep, Black / Grey
020-480-009	Cover Kit Main Moulded, Black / Grey
020-481-009	Cover Kit Extended Moulded, Black / Grey
020-508-009	Backbox Extension Standard Assembly Black / Grey
020-509-009	Backbox Extension Deep Assembly Black / Grey
020-513-009	High Security Cover Kit Main, Black / Grey
020-514-009	High Security Cover Kit Extension
020-576	Main Cover, Stainless Steel
020-577	Extension Cover Stainless Steel
020-621-256	Zone Extension Cover, Stainless / Steel
020-621-009	256 Zone Extension Cover, Black / Grey
020-541-009	PSU7A / 78Ah Battery Enclosure

Modules:

020-559-001	Zone Extension Chassis Kit 1-64 Zone C/W Display Module
020-559-002	Zone Extension Chassis Kit 65-128 Zone C/W Display Module
020-612	Double Extended Chassis Kit 256 Zone
020-708-009	Extension Chassis with Printer
020-644-009	Printer Assembly
020-588	Notifier Dual Loop Interface Board, (LIB)
020-549	Notifier Dual Enhanced Loop Interface Board, (ELIB)
020-478	RS232 Interface
020-479	RS485 Interface
020-648	PSU3A
020-579	PSU7A, (Requires Dual Transmission Path / Booster, PSU Interface)
020-548	PSU7A Status Indication
020-543	Dual Transmission Path / Booster, PSU Interface
020-773	Routing Termination Unit (DEOL)
020-877	Extinguishing Interface Module M221-SI
020-643	ID²net Fibre Optic Interface Kit
020-647	ID²net Network Gateway Module, (NGM) for use in ID3000 Panel

Note 1: Products are available in language variants as follows:

Group 0: English and Icelandic, with English manuals
Group 1: English, Spanish, Portuguese, Icelandic and Italian
Group 3: English, Swedish, Danish, Norwegian and Finish
Group 4: English and Polish
Group 5: English and Cyrillic

Certificated Products		LPCB Ref. No.
	Note 2: Fixed build products incorporate a corresponding Basic Equipment Kit.	
002-467	ID^2 net Network Gateway Unit, (NGU) Notifier Protocol Incorporating the following as modular units: 020-643 ID^2 net Fibre Optic Interface Kit 020-647 ID^2 net Network Gateway Module, (NGM) for use in ID3000 Panels 020-648 PSU3A *Certified with the following options with requirements:* *7.8 Output to fire alarm devices* *7.9.1 Output to fire alarm routing equipment* *7.9.2 Alarm confirmation input from fire alarm routing equipment* *7.10.1 Output to fire protection equipment type A* *7.10.3 Output to fire protection equipment type C* *7.10.4 Fault monitoring of fire protection equipment* *7.11 Delays to outputs* *7.12.2 Dependency on more than one alarm signal type B* *7.12.3 Dependency on more than one alarm signal type C* *7.13 Alarm counter* *8.3 Fault signals from points* *8.9 Output to fault warning routing equipment* *9.5 Disablements of addressable points* *10 Test condition*	567au/05
ID50	Single loop analogue addressable control and indicating equipment 002-455 ID50 Panel Group 0 002-455-001 ID50 Panel Group 1 002-455-003 ID50 Panel Group 3 002-455-004 ID50 Panel Group 4 May also incorporate the following optional modular unit: 002-553 RS485 Communication Kit Certified with the following options with requirements: 7.8 Output to fire alarm devices 7.9.1 Output to fire alarm routing equipment 7.9.2 Alarm confirmation input from fire alarm routing equipment 7.10.1 Outputs to fire protection equipment: Type A 7.10.3 Outputs to fire protection equipment: Type C 7.10.4 Fault monitoring of fire protection equipment 7.11 Delays to Outputs 7.12.2 Dependencies on more than one alarm signal: Type B 7.13 Alarm counter 8.3 Fault signals from points 8.9 Output to fault warning routing equipment 9.5 Disablement of addressable points 10 Test condition Note: Products are available in various language groups as follows: Group 0: English, Icelandic, French, Italian, Portuguese and Spanish, (shipped with English manuals) Group 1: English, Icelandic, French, Italian, Portuguese and Spanish Group 2: English, Dutch, German, French and Italian Group 3: English, Swedish, Danish, Norwegian and Finnish Group 4: English and Polish	567au/06
ID60	Single loop analogue addressable control and indicating equipment 002-456 ID60 Panel Group 0 002-456-001 ID60 Panel Group 1 002-456-003 ID60 Panel Group 3 002-456-004 ID60 Panel Group 4 May also incorporate the following optional modular unit: 002-553 RS485 Communication Kit Certified with the following options with requirements: 7.8 Output to fire alarm devices 7.9.1 Output to fire alarm routing equipment 7.9.2 Alarm confirmation input from fire alarm routing equipment 7.10.1 Outputs to fire protection equipment: Type A 7.10.3 Outputs to fire protection equipment: Type C 7.10.4 Fault monitoring of fire protection equipment 7.11 Delays to Outputs 7.12.2 Dependencies on more than one alarm signal: Type B 7.13 Alarm counter 8.3 Fault signals from points 8.9 Output to fault warning routing equipment 9.5 Disablement of addressable points 10 Test condition Note: Products are available in various language groups as follows:	567au/07

Certificated Products		LPCB Ref. No.
	Group 0: English, Icelandic, French, Italian, Portuguese and Spanish, (shipped with English manuals) Group 1: English, Icelandic, French, Italian, Portuguese and Spanish Group 2: English, Dutch, German, French and Italian Group 3: English, Swedish, Danish, Norwegian and Finnish Group 4: English and Polish	
ID61	Single loop analogue addressable control and indicating equipment 002-463 ID61 Panel Group 0 002-463-001 ID61 Panel Group 1 002-463-004 ID61 Panel Group 4 002-485-001 ID61 Panel Group 1 (Red) Incorporating the following modular unit: 020-648 PSU3A Kit May also incorporate the following optional modular units: 020-479 RS485 Communication Kit 020-644-009 Printer Kit Certified with the following options with requirements: 7.8 Output to fire alarm devices 7.9.1 Output to fire alarm routing equipment 7.9.2 Alarm confirmation input from fire alarm routing equipment 7.10.1 Outputs to fire protection equipment: Type A 7.10.3 Outputs to fire protection equipment: Type C 7.10.4 Fault monitoring of fire protection equipment 7.11 Delays to Outputs 7.12.2 Dependencies on more than one alarm signal: Type B 7.13 Alarm counter 8.3 Fault signals from points 8.9 Output to fault warning routing equipment 9.5 Disablement of addressable points 10 Test condition Note: Products are available in various language groups as follows: Group 0: English, Icelandic, French, Italian, Portuguese and Spanish, (shipped with English manuals) Group 1: English, Icelandic, French, Italian, Portuguese and Spanish Group 2: English, Dutch, German, French and Italian Group 3: English, Swedish, Danish, Norwegian and Finnish Group 4: English and Polish	567au/08
ID62	Single loop analogue addressable control and indicating equipment 002-461 ID62 Panel Group 0 002-461-001 ID62 Panel Group 1 002-461-004 ID62 Panel Group 4 Incorporating the following modular unit: 020-648 PSU3A Kit May also incorporate the following optional modular units: 020-479 RS485 Communication Kit 020-644-009 Printer Kit Certified with the following options with requirements: 7.8 Output to fire alarm devices 7.9.1 Output to fire alarm routing equipment 7.9.2 Alarm confirmation input from fire alarm routing equipment 7.10.1 Outputs to fire protection equipment: Type A 7.10.3 Outputs to fire protection equipment: Type C 7.10.4 Fault monitoring of fire protection equipment 7.11 Delays to Outputs 7.12.2 Dependencies on more than one alarm signal: Type B 7.13 Alarm counter 8.3 Fault signals from points 8.9 Output to fault warning routing equipment 9.5 Disablement of addressable points 10 Test condition Note: Products are available in various language groups as follows: Group 0: English, Icelandic, French, Italian, Portuguese and Spanish, (shipped with English manuals) Group 1: English, Icelandic, French, Italian, Portuguese and Spanish Group 2: English, Dutch, German, French and Italian Group 3: English, Swedish, Danish, Norwegian and Finnish Group 4: English and Polish	567au/09
NFS2-8 2 Zone	002-477-122 Language region 1, light grey 002-477-129 Language region 1, black & grey 002-477-222 Language region 2, light grey 002-477-229 Language region 2, black & grey 002-477-322 Language region 3, light grey, dual relay 002-477-329 Language region 3, black & grey, dual relay, English manual 002-490-129 Language region 1, black & grey, dual relay, English manual 002-490-229 Language region 2, black & grey, dual relay, English manual 002-490-222 Language region 2, light grey, English manual	567au/10

Certificated Products		LPCB Ref. No.
	Incorporating the following units: 020-747 8-Way relay kit 020-772 4-way monitored sounder kit Certified with the following options from EN 54 Part 2: 7.8 Output to fire alarm devices 7.9.1 Output to fire alarm routing equipment 7.9.2 Alarm confirmation input from fire alarm routing equipment 7.10.1 Output to automatic fire protection equipment: Type A 7.10.3 Output to automatic fire protection equipment: Type C 7.10.4 Fault monitoring of fire protection equipment 7.11.1 Delays to outputs 7.11.2 Manual or automatic switching of delays to outputs 7.12.2 Dependency on more than one alarm signal: Type B 8.9 Output to fault warning routing equipment 10 Test condition Note 1: fixed build products incorporate a corresponding Basic equipment Kit.	
NFS2-8 4 Zone	002-477-142 Language region 1, light grey 002-477-149 Language region 1, black & grey 002-477-242 Language region 2, light grey 002-477-249 Language region 2, black & grey 002-477-342 Language region 3, light grey, dual relay 002-477-349 Language region 3, black & grey, dual relay 002-490-149 Language region 1, black & grey, dual relay, English manual 002-490-249 Language region 2, black & grey, dual relay, English manual 002-490-242 Language region 2, light grey, English manual	567au/11
	Incorporating the following units: 020-747 8-Way relay kit 020-772 4-way monitored sounder kit Certified with the following options from EN 54 Part 2: 7.8 Output to fire alarm devices 7.9.1 Output to fire alarm routing equipment 7.9.2 Alarm confirmation input from fire alarm routing equipment 7.10.1 Output to automatic fire protection equipment: Type A 7.10.3 Output to automatic fire protection equipment: Type C 7.10.4 Fault monitoring of fire protection equipment 7.11.1 Delays to outputs 7.11.2 Manual or automatic switching of delays to outputs 7.12.2 Dependency on more than one alarm signal: Type B 8.9 Output to fault warning routing equipment 10 Test condition Note 1: fixed build products incorporate a corresponding Basic equipment Kit.	
NFS2-8 8 Zone	002-477-182 Language region 1, light grey 002-477-189 Language region 1, black & grey 002-477-282 Language region 2, light grey 002-477-289 Language region 2, black & grey 002-477-382 Language region 3, light grey, dual relay 002-477-389 Language region 3, black & grey, dual relay 002-490-189 Language region 1, black & grey, dual relay, English manual 002-490-289 Language region 2, black & grey, dual relay, English manual 002-490-282 Language region 2, light grey, English manual	567au/12
	Incorporating the following units: 020-747 8-Way relay kit 020-772 4-way monitored sounder kit	
	Incorporating the following units: 020-747 8-Way relay kit 020-772 4-way monitored sounder kit Certified with the following options from EN 54 Part 2: 7.8 Output to fire alarm devices 7.9.1 Output to fire alarm routing equipment 7.9.2 Alarm confirmation input from fire alarm routing equipment 7.10.1 Output to automatic fire protection equipment: Type A 7.10.3 Output to automatic fire protection equipment: Type C 7.10.4 Fault monitoring of fire protection equipment 7.11.1 Delays to outputs 7.11.2 Manual or automatic switching of delays to outputs 7.12.2 Dependency on more than one alarm signal: Type B 8.9 Output to fault warning routing equipment 10 Test condition Note 1: fixed build products incorporate a corresponding Basic equipment Kit.	
Pearl	Two loop analogue addressable control and indicating equipment	567au/19
	Incorporating the following units: 772489-NE CPU board 124-408 3A PSU board 124-412 Network gateway module 124-421 Base board incorporating two loops 124-422 Display board 124-423 VdS I/O Module 124-426 Communications module PRL-Box Extended Back box Incorporating the following optional regional language text inserts: PRL-LED-EN (English) PRL-D (German) PRL-IB	

Certificated Products		LPCB Ref. No.

(Iberia) PRL-BNL (Benelux) PRL-LCD-NRD (Swedish) PRL-MEA (Middle East and Africa) PRL-IT (Italian)

Certified with the following options with requirements from EN 54-2:

7.8 Output to fire alarm devices 7.9.1 Output to fire alarm routing equipment 7.9.2 Alarm confirmation input from fire alarm routing equipment 7.10.1 Output to fire protection equipment type A 7.10.3 Output to fire protection equipment type C 7.10.4 Fault monitoring of fire protection equipment 7.11 Delays to outputs 7.12.2 Dependency on more than one alarm signal type B 7.12.3 Dependency on more than one alarm signal type C 7.13 Alarm counter 8.3 Fault signals from points 8.9 Output to fault warning routing equipment 9.5 Disablements of addressable points 10 Test condition

Notes:
1. This product approval does not constitute compliance with the fire detection and alarm systems requirements of EN 54-13. 2. Scope of approval does not include the operation of the network functionality.

Notes:

1. *1. This product approval does not constitute compliance with the fire detection and alarm systems requirements of EN 54-13.*
   2. Scope of approval does not include the operation of the network functionality.

Pearl	Single loop analogue addressable control and indicating equipment	567au/20

Incorporating the following units:

772489-NE CPU board 124-408 3A PSU board 124-412 Network gateway module 124-421-001 Single loop base board incorporating one loop 124-422 Display board 124-423 VdS I/O Module 124-426 Communications module PRL-Box Extended Back box

Incorporating the following optional regional language text inserts:

PRL-LED-EN-1 (English)
PRL-D-1 (German)
PRL-IB-1 (Iberia)
PRL-BNL-1 (Benelux)
PRL-LCD-NRD-1 (Swedish)
PRL-MEA-1 (Middle East and Africa)
PRL-IT-1 (Italian)

Certified with the following options with requirements from EN 54-2:

7.8 Output to fire alarm devices 7.9.1 Output to fire alarm routing equipment 7.9.2 Alarm confirmation input from fire alarm routing equipment 7.10.1 Output to fire protection equipment type A 7.10.3 Output to fire protection equipment type C 7.10.4 Fault monitoring of fire protection equipment 7.11 Delays to outputs 7.12.2 Dependency on more than one alarm signal type B 7.12.3 Dependency on more than one alarm signal type C 7.13 Alarm counter 8.3 Fault signals from points 8.9 Output to fault warning routing equipment 9.5 Disablements of addressable points 10 Test condition

Notes:
1. This product approval does not constitute compliance with the fire detection and alarm systems requirements of EN 54-13. 2. Scope of approval does not include the operation of the network functionality.

Certificate No: 567au-(cl-2) to EN 54-2:1997 + A1:2006 & EN 54-4:1997 + A1:2002+A2:2006

Approved Products		LPCB Ref. No.
ID3000	Basic Equipment Kit, (BEK): Modular analogue addressable control and indicating equipment	567au/04

020-538 Basic Equipment Kit ID3000, Group 0
020-538-001 ID3000 Basic Equipment Kit, Group 1
020-538-003 ID3000 Basic Equipment Kit, Group 3

Approved Products **LPCB Ref. No.**

020-538-004 ID3000 Basic Equipment Kit, Group 4
020-538-005 ID3000 Basic Equipment Kit, Group 5
Incorporating the following as modular units:
Enclosures:
020-472-009 Backbox Kit Standard, Black / Grey
020-473-009 Backbox Kit Extended, Black / Grey
020-474-009 Backbox Kit Extended Deep, Black / Grey
020-475-009 Backbox Kit Double Extended, Black / Grey
020-476-009 Backbox Kit Double Extended Deep, Black / Grey
020-480-009 Cover Kit Main Moulded, Black / Grey
020-481-009 Cover Kit Extended Moulded, Black / Grey
020-508-009 Backbox Extension Standard Assembly Black / Grey
020-509-009 Backbox Extension Deep Assembly Black / Grey
020-513-009 High Security Cover Kit Main, Black / Grey
020-514-009 High Security Cover Kit Extension
020-576 Main Cover, Stainless Steel
020-577 Extension Cover Stainless Steel
020-621-256 Zone Extension Cover, Stainless / Steel
020-621-009 256 Zone Extension Cover, Black / Grey
020-541-009 PSU7A / 78Ah Battery Enclosure
Modules:
020-559-001 Zone Extension Chassis Kit 1-64 Zone C/W Display Module
020-559-002 Zone Extension Chassis Kit 65-128 Zone C/W Display Module
020-612 Double Extended Chassis Kit 256 Zone
020-708-009 Extension Chassis with Printer
020-644-009 Printer Assembly
020-588 Notifier Dual Loop Interface Board, (LIB)
020-549 Notifier Dual Enhanced Loop Interface Board, (ELIB)
020-478 RS232 Interface
020-479 RS485 Interface
020-648 PSU3A
020-579 PSU7A, (Requires Dual Transmission Path / Booster, PSU Interface)
020-548 PSU7A Status Indication
020-543 Dual Transmission Path / Booster, PSU Interface
020-773 Routing Termination Unit (DEOL)
020-877 Extinguishing Interface Module M221-SI
020-643 ID²net Fibre Optic Interface Kit
020-647 ID²net Network Gateway Module, (NGM) for use in ID3000 Panel

Notes:
1. Products are available in language variants as follows:
Group 0: English and Icelandic, with English manuals
Group 1: English, Spanish, Portuguese, Icelandic and Italian
Group 3: English, Swedish, Danish, Norwegian and Finish
Group 4: English and Polish
Group 5: English and Cyrillic
2. Fixed build products incorporate a corresponding Basic Equipment Kit
3. Scope of approval does not include the operation of the network functionality
This product approval does not constitute compliance with the fire detection and alarm system requirements of EN54-13.

ID3002 Fixed build 2 loop analogue addressable control and indicating equipment 567au/04

002-473 ID3002, 2 Loop, PSU3A, Group 0, Red
002-474 ID3002, 2 Loop, PSU3A, Group 0

Approved Products **LPCB Ref. No.**

002-474-001 ID3002, 2 Loop, PSU3A, Group 1
002-474-003 ID3002, 2 Loop, PSU3A, Group 3
002-474-004 ID3002, 2 Loop, PSU3A, Group 4
002-474-005 ID3002, 2 Loop, PSU3A, Group 5

Incorporating the following as modular units:
Enclosures:

020-472-009 Backbox Kit Standard, Black / Grey
020-473-009 Backbox Kit Extended, Black / Grey
020-474-009 Backbox Kit Extended Deep, Black / Grey
020-475-009 Backbox Kit Double Extended, Black / Grey
020-476-009 Backbox Kit Double Extended Deep, Black / Grey
020-480-009 Cover Kit Main Moulded, Black / Grey
020-481-009 Cover Kit Extended Moulded, Black / Grey
020-508-009 Backbox Extension Standard Assembly Black / Grey
020-509-009 Backbox Extension Deep Assembly Black / Grey
020-513-009 High Security Cover Kit Main, Black / Grey
020-514-009 High Security Cover Kit Extension
020-576 Main Cover, Stainless Steel
020-577 Extension Cover Stainless Steel
020-621-256 Zone Extension Cover, Stainless / Steel
020-621-009 256 Zone Extension Cover, Black / Grey
020-541-009 PSU7A / 78Ah Battery Enclosure

Modules:

020-559-001 Zone Extension Chassis Kit 1-64 Zone C/W Display Module
020-559-002 Zone Extension Chassis Kit 65-128 Zone C/W Display Module
020-612 Double Extended Chassis Kit 256 Zone
020-708-009 Extension Chassis with Printer
020-644-009 Printer Assembly
020-588 Notifier Dual Loop Interface Board, (LIB)
020-549 Notifier Dual Enhanced Loop Interface Board, (ELIB)
020-478 RS232 Interface
020-479 RS485 Interface
020-648 PSU3A
020-579 PSU7A, (Requires Dual Transmission Path / Booster, PSU Interface)
020-548 PSU7A Status Indication
020-543 Dual Transmission Path / Booster, PSU Interface
020-773 Routing Termination Unit (DEOL)
020-877 Extinguishing Interface Module M221-SI
020-643 ID²net Fibre Optic Interface Kit
020-647 ID²net Network Gateway Module, (NGM) for use in ID3000 Panel

Notes:1. Products are available in language variants as follows:
Group 0: English and Icelandic, with English manuals
Group 1: English, Spanish, Portuguese, Icelandic and Italian
Group 3: English, Swedish, Danish, Norwegian and Finish
Group 4: English and Polish
Group 5: English and Cyrillic
2. Fixed build products incorporate a corresponding Basic Equipment Kit.
3. Scope of approval does not include the operation of the network functionality
4. This product approval does not constitute compliance with the fire detection

Approved Products		LPCB Ref. No.
	and alarm system requirements of EN54-13.	
ID3006	Fixed build 6 loop analogue addressable control and indicating equipment. 020-731 ID3006, 6 Loop, PSU7A, Group 0, 2xLIB 020-732 ID3006, 6 Loop, PSU7A, Group 0, 2xELIB 020-733 ID3006, 6 Loop, PSU7A, Group 0, 2xLIB, printer 020-734 ID3006, 6 Loop, PSU7A, Group 0, 2xLIB, 64 zone LED Incorporating the following as modular units: Enclosures: 020-472-009 Backbox Kit Standard, Black / Grey 020-473-009 Backbox Kit Extended, Black / Grey 020-474-009 Backbox Kit Extended Deep, Black / Grey 020-475-009 Backbox Kit Double Extended, Black / Grey 020-476-009 Backbox Kit Double Extended Deep, Black / Grey 020-480-009 Cover Kit Main Moulded, Black / Grey 020-481-009 Cover Kit Extended Moulded, Black / Grey 020-508-009 Backbox Extension Standard Assembly Black / Grey 020-509-009 Backbox Extension Deep Assembly Black / Grey 020-513-009 High Security Cover Kit Main, Black / Grey 020-514-009 High Security Cover Kit Extension 020-576 Main Cover, Stainless Steel 020-577 Extension Cover Stainless Steel 020-621-256 Zone Extension Cover, Stainless / Steel 020-621-009 256 Zone Extension Cover, Black / Grey 020-541-009 PSU7A / 78Ah Battery Enclosure Modules: 020-559-001 Zone Extension Chassis Kit 1-64 Zone C/W Display Module 020-559-002 Zone Extension Chassis Kit 65-128 Zone C/W Display Module 020-612 Double Extended Chassis Kit 256 Zone 020-708-009 Extension Chassis with Printer 020-644-009 Printer Assembly 020-588 Notifier Dual Loop Interface Board, (LIB) 020-549 Notifier Dual Enhanced Loop Interface Board, (ELIB) 020-478 RS232 Interface 020-479 RS485 Interface 020-648 PSU3A 020-579 PSU7A, (Requires Dual Transmission Path / Booster, PSU Interface) 020-548 PSU7A Status Indication 020-543 Dual Transmission Path / Booster, PSU Interface 020-773 Routing Termination Unit (DEOL) 020-877 Extinguishing Interface Module M221-SI 020-643 ID²net Fibre Optic Interface Kit 020-647 ID²net Network Gateway Module, (NGM) for use in ID3000 Panel *Notes1. Products are available in language variants as follows:* *Group 0: English and Icelandic, with English manuals* *2. Fixed build products incorporate a corresponding Basic Equipment Kit* *3. Scope of approval does not include the operation of the network functionality* *4. This product approval does not constitute compliance with the fire detection and alarm system requirements of EN54-13.*	567au/04
ID3008	Fixed build 8 loop analogue addressable control and indicating equipment. 020-735 ID3008, 8 Loop, PSU7A, Group 0, 3xLIB, 78Ah Battery Enclosure	567au/04

Approved Products **LPCB Ref. No.**

020-736 ID3008, 8 Loop, PSU7A, Group 0, 3xELIB, 78Ah Battery Enclosure

020-737 ID3008, 8 Loop, PSU7A, Group 0, 3xLIB, 78Ah Battery Enclosure, Printer

020-738 ID3008, 8 Loop, PSU7A, Group 0, 3xLIB, 78Ah Battery enclosure, printer, 64 Zone LED

Incorporating the following as modular units:

Enclosures:

020-472-009 Backbox Kit Standard, Black / Grey
020-473-009 Backbox Kit Extended, Black / Grey
020-474-009 Backbox Kit Extended Deep, Black / Grey
020-475-009 Backbox Kit Double Extended, Black / Grey
020-476-009 Backbox Kit Double Extended Deep, Black / Grey
020-480-009 Cover Kit Main Moulded, Black / Grey
020-481-009 Cover Kit Extended Moulded, Black / Grey
020-508-009 Backbox Extension Standard Assembly Black / Grey
020-509-009 Backbox Extension Deep Assembly Black / Grey
020-513-009 High Security Cover Kit Main, Black / Grey
020-514-009 High Security Cover Kit Extension
020-576 Main Cover, Stainless Steel
020-577 Extension Cover Stainless Steel
020-621-256 Zone Extension Cover, Stainless / Steel
020-621-009 256 Zone Extension Cover, Black / Grey
020-541-009 PSU7A / 78Ah Battery Enclosure

Modules:

020-559-001 Zone Extension Chassis Kit 1-64 Zone C/W Display Module
020-559-002 Zone Extension Chassis Kit 65-128 Zone C/W Display Module
020-612 Double Extended Chassis Kit 256 Zone
020-708-009 Extension Chassis with Printer
020-644-009 Printer Assembly
020-588 Notifier Dual Loop Interface Board, (LIB)
020-549 Notifier Dual Enhanced Loop Interface Board, (ELIB)
020-478 RS232 Interface
020-479 RS485 Interface
020-648 PSU3A
020-579 PSU7A, (Requires Dual Transmission Path / Booster, PSU Interface)
020-548 PSU7A Status Indication
020-543 Dual Transmission Path / Booster, PSU Interface
020-773 Routing Termination Unit (DEOL)
020-877 Extinguishing Interface Module M221-SI
020-643 ID²net Fibre Optic Interface Kit
020-647 ID²net Network Gateway Module, (NGM) for use in ID3000 Panel

Notes1. Products are available in language variants as follows:
Group 0: English and Icelandic, with English manuals
Group 1: English, Spanish, Portuguese, Icelandic and Italian
Group 3: English, Swedish, Danish, Norwegian and Finish
Group 4: English and Polish
Group 5: English and Cyrillic
2. Fixed build products incorporate a corresponding Basic Equipment Kit.
3. Scope of approval does not include the operation of the network functionality
4. This product approval does not constitute compliance with the fire detection and alarm system requirements of EN54-13.

002-467 ID²net Network Gateway Unit, (NGU) Notifier Protocol 567au/05

Approved Products		LPCB Ref. No.
	Incorporating the following as modular units: 020-643 ID²net Fibre Optic Interface Kit 020-647 ID²net Network Gateway Module, (NGM) for use in ID3000 Panels 020-648 PSU3A Certified with the following options with requirements: 7.8 Output to fire alarm devices 7.9.1 Output to fire alarm routing equipment 7.9.2 Alarm confirmation input from fire alarm routing equipment 7.10.1 Output to fire protection equipment type A 7.10.3 Output to fire protection equipment type C 7.10.4 Fault monitoring of fire protection equipment 7.11 Delays to outputs 7.12.2 Dependency on more than one alarm signal type B 7.12.3 Dependency on more than one alarm signal type C 7.13 Alarm counter 8.3 Fault signals from points 8.9 Output to fault warning routing equipment 9.5 Disablements of addressable points 10 Test condition *Notes:* *1. Scope of approval does not include the operation of the network functionality* *2. This product approval does not constitute compliance with the fire detection and alarm system requirements of EN54-13.*	
ID50	Single loop analogue addressable control and indicating equipment 002-455 ID50 Panel Group 0 002-455-001 ID50 Panel Group 1 002-455-003 ID50 Panel Group 3 002-455-004 ID50 Panel Group 4 May also incorporate the following optional modular unit: 002-553 RS485 Communication Kit Certified with the following options with requirements: 7.8 Output to fire alarm devices 7.9.1 Output to fire alarm routing equipment 7.9.2 Alarm confirmation input from fire alarm routing equipment 7.10.1 Outputs to fire protection equipment: Type A 7.10.3 Outputs to fire protection equipment: Type C 7.10.4 Fault monitoring of fire protection equipment 7.11 Delays to Outputs 7.12.2 Dependencies on more than one alarm signal: Type B 7.13 Alarm counter 8.3 Fault signals from points 8.9 Output to fault warning routing equipment 9.5 Disablement of addressable points 10 Test condition *Notes:1. Products are available in various language groups as follows:* *Group 0: English, Icelandic, French, Italian, Portuguese and Spanish, (shipped with English manuals)* *Group 1: English, Icelandic, French, Italian, Portuguese and Spanish* *Group 2: English, Dutch, German, French and Italian* *Group 3: English, Swedish, Danish, Norwegian and Finnish* *Group 4: English and Polish* *2. Scope of approval does not include the operation of the network functionality* *3. This product approval does not constitute compliance with the fire detection and alarm system requirements of EN54-13.*	567au/06
ID60	Single loop analogue addressable control and indicating equipment 002-456 ID60 Panel Group 0 002-456-001 ID60 Panel Group 1 002-456-003 ID60 Panel Group 3 002-456-004 ID60 Panel Group 4 May also incorporate the following optional modular unit: 002-553 RS485 Communication Kit	567au/07

Approved Products		LPCB Ref. No.
	Certified with the following options with requirements: 7.8 Output to fire alarm devices 7.9.1 Output to fire alarm routing equipment 7.9.2 Alarm confirmation input from fire alarm routing equipment 7.10.1 Outputs to fire protection equipment: Type A 7.10.3 Outputs to fire protection equipment: Type C 7.10.4 Fault monitoring of fire protection equipment 7.11 Delays to Outputs 7.12.2 Dependencies on more than one alarm signal: Type B 7.13 Alarm counter 8.3 Fault signals from points 8.9 Output to fault warning routing equipment 9.5 Disablement of addressable points 10 Test condition *Notes1. Products are available in various language groups as follows:* *Group 0: English, Icelandic, French, Italian, Portuguese and Spanish, (shipped with English manuals)* *Group 1: English, Icelandic, French, Italian, Portuguese and Spanish* *Group 2: English, Dutch, German, French and Italian* *Group 3: English, Swedish, Danish, Norwegian and Finnish* *Group 4: English and Polish* *2. Scope of approval does not include the operation of the network functionality* *3. This product approval does not constitute compliance with the fire detection and alarm system requirements of EN54-13.*	
ID61	Single loop analogue addressable control and indicating equipment 002-463 ID61 Panel Group 0 002-463-001 ID61 Panel Group 1 002-463-004 ID61 Panel Group 4 002-485-001 ID61 Panel Group 1 (Red) Incorporating the following modular unit: 020-648 PSU3A Kit May also incorporate the following optional modular units: 020-479 RS485 Communication Kit 020-644-009 Printer Kit Certified with the following options with requirements: 7.8 Output to fire alarm devices 7.9.1 Output to fire alarm routing equipment 7.9.2 Alarm confirmation input from fire alarm routing equipment 7.10.1 Outputs to fire protection equipment: Type A 7.10.3 Outputs to fire protection equipment: Type C 7.10.4 Fault monitoring of fire protection equipment 7.11 Delays to Outputs 7.12.2 Dependencies on more than one alarm signal: Type B 7.13 Alarm counter 8.3 Fault signals from points 8.9 Output to fault warning routing equipment 9.5 Disablement of addressable points 10 Test condition *Notes:1. Products are available in various language groups as follows:* *Group 0: English, Icelandic, French, Italian, Portuguese and Spanish, (shipped with English manuals)* *Group 1: English, Icelandic, French, Italian, Portuguese and Spanish* *Group 2: English, Dutch, German, French and Italian* *Group 3: English, Swedish, Danish, Norwegian and Finnish* *Group 4: English and Polish* *2. Scope of approval does not include the operation of the network functionality* *3. This product approval does not constitute compliance with the fire detection and alarm system requirements of EN54-13.*	567au/08
ID62	Single loop analogue addressable control and indicating equipment 002-461 ID62 Panel Group 0 002-461-001 ID62 Panel Group 1 002-461-004 ID62 Panel Group 4 Incorporating the following modular unit: 020-648 PSU3A Kit May also incorporate the following optional modular units: 020-479 RS485 Communication Kit 020-644-009 Printer Kit Certified with the following options with requirements: 7.8 Output to fire alarm devices 7.9.1 Output to fire alarm routing equipment 7.9.2 Alarm confirmation input from fire alarm routing equipment	567au/09

Approved Products			LPCB Ref. No.
		7.10.1 Outputs to fire protection equipment: Type A 7.10.3 Outputs to fire protection equipment: Type C 7.10.4 Fault monitoring of fire protection equipment 7.11 Delays to Outputs 7.12.2 Dependencies on more than one alarm signal: Type B 7.13 Alarm counter 8.3 Fault signals from points 8.9 Output to fault warning routing equipment 9.5 Disablement of addressable points 10 Test condition *Notes:1. Products are available in various language groups as follows:* *Group 0: English, Icelandic, French, Italian, Portuguese and Spanish, (shipped with English manuals)* *Group 1: English, Icelandic, French, Italian, Portuguese and Spanish* *Group 2: English, Dutch, German, French and Italian* *Group 3: English, Swedish, Danish, Norwegian and Finnish* *Group 4: English and Polish* *2. Scope of approval does not include the operation of the network functionality* *3. This product approval does not constitute compliance with the fire detection and alarm system requirements of EN54-13.*	
NFS2-8 2 Zone	002-477-122 Language region 1, light grey 002-477-129 Language region 1, black & grey 002-477-222 Language region 2, light grey 002-477-229 Language region 2, black & grey 002-477-322 Language region 3, light grey, dual relay 002-477-329 Language region 3, black & grey, dual relay, English manual 002-490-129 Language region 1, black & grey, dual relay, English manual 002-490-229 Language region 2, black & grey, dual relay, English manual 002-490-222 Language region 2, light grey, English manual Incorporating the following units: 020-747 8-Way relay kit 020-772 4-way monitored sounder kit Certified with the following options from EN 54 Part 2: 7.8 Output to fire alarm devices 7.9.1 Output to fire alarm routing equipment 7.9.2 Alarm confirmation input from fire alarm routing equipment 7.10.1 Output to automatic fire protection equipment: Type A 7.10.3 Output to automatic fire protection equipment: Type C 7.10.4 Fault monitoring of fire protection equipment 7.11.1 Delays to outputs 7.11.2 Manual or automatic switching of delays to outputs 7.12.2 Dependency on more than one alarm signal: Type B 8.9 Output to fault warning routing equipment 10 Test condition *Notes:* *1. Fixed build products incorporate a corresponding Basic equipment Kit.* *2. Scope of approval does not include the operation of the network functionality* *3. This product approval does not constitute compliance with the fire detection and alarm system requirements of EN54-13.*	567au/10
NFS2-8 4 Zone	4 zone conventional control and indicating equipment 002-477-142 Language region 1, light grey 002-477-149 Language region 1, black & grey 002-477-242 Language region 2, light grey 002-477-249 Language region 2, black & grey 002-477-342 Language region 3, light grey, dual relay 002-477-349 Language region 3, black & grey, dual relay 002-490-149 Language region 1, black & grey, dual relay, English manual 002-490-249 Language region 2, black & grey, dual relay, English manual 002-490-242 Language region 2, light grey, English manual Incorporating the following units: 020-747 8-Way relay kit 020-772 4-way monitored sounder kit Certified with the following options from EN 54 Part 2: 7.8 Output to fire alarm devices 7.9.1 Output to fire alarm routing equipment 7.9.2 Alarm confirmation input from fire alarm routing equipment 7.10.1 Output to automatic fire protection equipment: Type A 7.10.3 Output to automatic fire protection equipment: Type C	567au/11

Approved Products		LPCB Ref. No.
	7.10.4 Fault monitoring of fire protection equipment 7.11.1 Delays to outputs 7.11.2 Manual or automatic switching of delays to outputs 7.12.2 Dependency on more than one alarm signal: Type B 8.9 Output to fault warning routing equipment 10 Test condition *Notes: 1. Fixed build products incorporate a corresponding Basic equipment Kit.* *2. Scope of approval does not include the operation of the network functionality* *3. This product approval does not constitute compliance with the fire detection and alarm system requirements of EN54-13.*	
NFS2-8 8 Zone	8 zone conventional control and indicating equipment 002-477-182 Language region 1, light grey 002-477-189 Language region 1, black & grey 002-477-282 Language region 2, light grey 002-477-289 Language region 2, black & grey 002-477-382 Language region 3, light grey, dual relay 002-477-389 Language region 3, black & grey, dual relay 002-490-189 Language region 1, black & grey, dual relay, English manual 002-490-289 Language region 2, black & grey, dual relay, English manual 002-490-282 Language region 2, light grey, English manual Incorporating the following units: 020-747 8-Way relay kit 020-772 4-way monitored sounder kit Certified with the following options from EN 54 Part 2: 7.8 Output to fire alarm devices 7.9.1 Output to fire alarm routing equipment 7.9.2 Alarm confirmation input from fire alarm routing equipment 7.10.1 Output to automatic fire protection equipment: Type A 7.10.3 Output to automatic fire protection equipment: Type C 7.10.4 Fault monitoring of fire protection equipment 7.11.1 Delays to outputs 7.11.2 Manual or automatic switching of delays to outputs 7.12.2 Dependency on more than one alarm signal: Type B 8.9 Output to fault warning routing equipment 10 Test condition *Notes:1. Fixed build products incorporate a corresponding Basic equipment Kit.* *2. Scope of approval does not include the operation of the network functionality* *3. This product approval does not constitute compliance with the fire detection and alarm system requirements of EN54-13.*	567au/12
Pearl	Two loop analogue addressable control and indicating equipment Incorporating the following units: 772489-NE CPU Board 124-408 3A PSU board 124-412 Network gateway module 124-421 Base board incorporating two loops 124-422 Display board 124-423 VdS I/O Module 124-426 Communications module PRL-Box Extended Back box Incorporating the following optional regional language text inserts: PRL-LED-EN (English) PRL-D (German) PRL-IB (Iberia) PRL-BNL (Benelux) PRL-LCD-NRD (Swedish) PRL-MEA (Middle East and Africa) PRL-IT (Italian) Certified with the following options with requirements from EN 54-2: 7.8 Output to fire alarm devices 7.9.1 Output to fire alarm routing equipment 7.9.2 Alarm confirmation input from fire alarm routing equipment 7.10.1 Output to fire protection equipment type A 7.10.3 Output to fire protection equipment type C 7.10.4 Fault monitoring of fire protection equipment 7.11 Delays to outputs 7.12.2 Dependency on more than one alarm signal type B 7.12.3 Dependency on more than one alarm signal type C 7.13 Alarm counter 8.3 Fault signals from points 8.9 Output to fault warning routing equipment	567au/19

Approved Products		LPCB Ref. No.
	9.5 Disablements of addressable points 10 Test condition *Notes:* *1. This product approval does not constitute compliance with the fire detection and alarm systems requirements of EN 54-13.* *2. Scope of approval does not include the operation of the network functionality*	
Pearl	Single loop analogue addressable control and indicating equipment Incorporating the following units: 772489-NE CPU board 124-408 3A PSU board 124-412 Network gateway module 124-421-001 Single loop base board incorporating one loop 124-422 Display board 124-423 VdS I/O Module 124-426 Communications module PRL-Box Extended Back box Incorporating the following optional regional language text inserts: PRL-LED-EN-1 (English) PRL-D-1 (German) PRL-IB-1 (Iberia) PRL-BNL-1 (Benelux) PRL-LCD-NRD-1 (Swedish) PRL-MEA-1 (Middle East and Africa) PRL-IT-1 (Italian) Certified with the following options with requirements from EN 54-2: 7.8 Output to fire alarm devices 7.9.1 Output to fire alarm routing equipment 7.9.2 Alarm confirmation input from fire alarm routing equipment 7.10.1 Output to fire protection equipment type A 7.10.3 Output to fire protection equipment type C 7.10.4 Fault monitoring of fire protection equipment 7.11 Delays to outputs 7.12.2 Dependency on more than one alarm signal type B 7.12.3 Dependency on more than one alarm signal type C 7.13 Alarm counter 8.3 Fault signals from points 8.9 Output to fault warning routing equipment 9.5 Disablements of addressable points 10 Test condition *Notes:* *1. This product approval does not constitute compliance with the fire detection and alarm systems requirements of EN 54-13.* *2. Scope of approval does not include the operation of the network functionality.*	567au/20

A copy of the certificate, confirming the full scope of approval including notes relating to the superscript references in the above table, may be viewed online by clicking on the product name in the associated entry on www.RedBookLive.com

---

NOTOFIRE PVT LTD

C-146, Ground Floor, Block C, Sector 63, NOIDA, Gautam Buddha Nagar,, Uttar Pradesh 201301, India
Tel: +919999991525
E-mail: indianotofire@gmail.com • Website: www.no2fire.com

Certificate No: 1450g-(cl-2) to EN 54-2:1997 + A1:2006 & EN 54-4:1997 + A1:2002 + A2:2006

Control and indicating equipment

Certificated Products		LPCB Ref. No.
NF5109	1-4 Loops Analogue Addressable Fire Alarm Control Panel Incorporating the following modules: TC5109-Main Main board TC5109-Loop Loop board TC5109-XZB Loop base board TC5109-Key Keypad board TC5109-ZX Zone and FPE indicator board TC5109-LCD Display board TC5109-SCR Indicator board TC5120-RS485 RS485 board	1450g/01

Certificated Products		LPCB Ref. No.
	TC5000-MAIN-CAN CAN board TC5109-LB1 Filter board 1 TC5109-LB2 Filter board 2 TC5109-POW Power Supply Equipment Certified with the following options with requirements: 7.8 Output to fire alarm device(s) 7.10.1 Output to automatic fire protection equipment Type A 7.10.2 Output to automatic fire protection equipment Type B 7.10.3 Output to automatic fire protection equipment Type C 8.3 Fault signals from point 9.5 Disablement of addressable points *Notes:* *1. This product approval does not constitute compliance with the fire detection and alarm systems requirements of EN54-13.* *2. Scope of approval does not include the operation of the network functionality.*	

A copy of the certificate, confirming the full scope of approval including notes relating to the superscript references in the above table, may be viewed online by clicking on the product name in the associated entry on www.RedBookLive.com

---

Paradox Hellas S.A

Korinthou 3, Metamorfosi, Athens 14451, Greece
Tel: +30 210 285 55 000
E-mail: rnd@paradox.gr • Website: www.paradox.gr

Certificate No: 1369a-(cl-1) to EN54-2:1997 + A1: 2006 & EN54-4:1997 + A1: 2002 + A2: 2006

Control and indicating equipment

Certificated Products		LPCB Ref. No.
SMARTX	SMARTX 116 HO Single Loop 16 Zones Analogue Addressable Control and Indicating Equipment (Hochiki's ESP Protocol) SMARTX 132 HO Single Loop 32 Zones Analogue Addressable Control and Indicating Equipment (Hochiki's ESP Protocol) SMARTX 116 AP Single Loop 16 Zones Analogue Addressable Control and Indicating Equipment (Apollo's XP95/Discovery Protocol) SMARTX 132 AP Single Loop 32 Zones Analogue Addressable Control and Indicating Equipment (Apollo's XP95/Discovery Protocol) Incorporating the following modules: PH.SM.1LP.MN Addressable Main Board PH.KP.132.GR 32 Zones Keypad / Display Board (Applicable to SMARTX 132) PH.KP.116.GR 16 Zones Keypad / Display Board (Applicable to SMARTX 116) PH.PS.006.V1 FPS-6 Power Supply Certified with the following options with requirements from EN54-2: 7.8 Output to fire alarm devices 7.9.1 Output to fire alarm routing equipment 7.9.2 Alarm confirmation input from fire alarm routing equipment 7.10.1 Outputs to fire protection equipment Output type A 7.10.2 Outputs to fire protection equipment Output type B 7.10.3 Outputs to fire protection equipment Output type C 7.10.4 Fault monitoring of fire protection equipment 7.12.2 Dependencies on more than one alarm signal Type B dependency 8.3 Fault signals from points 9.5 Disablement of addressable point Note: This product approval does not constitute compliance with the fire detection and alarms systems requirements of EN54-13.	1369a/01

A copy of the certificate, confirming the full scope of approval including notes relating to the superscript references in the above table, may be viewed online by clicking on the product name in the associated entry on www.RedBookLive.com

PT.Servvo Fire Indonesia

Pusat Niaga Roxy Mas Blok D5/17,, Jl.K.H. Hasyim Ashari Blok 125, Cideng, Gambir, Jakarta Pusat, DKI Jakarta Raya 10150, Indonesia
Tel: +62216330330
E-mail: info@servvo.com Info@servvo.co.id • Website: www.servvo.com or www.servvo.co.id

Certificate No: 1426g-(cl-3) to EN54-2: 1997 + A1: 2006 & EN52-4: 1997 + A1: 2002 + A2: 2006

Control and indicating equipment

Certificated Products		**LPCB Ref. No.**
SFS 2640E	Single Loop Analogue Addressable Fire Alarm Control Panel *Incorporating the following modules:* *SEC3002_IO IO Board* *SEC3002_B Monitoring Board (B Board)* *ZB-9100-A Main CPU Board (A Board)* *PSE10_KZ Power Supply* *SEC3002_QK Zone Indication Board* *SEC3002_KEY Key Board* *SEC3002_FL1 Loop SPU Board* *Incorporating the following optional modules:* *SEC3002_COM Communication Board* *Certified with the following options with requirements from EN54-2:* *7.8 Output to fire alarm devices* *7.10.1 Output type A* *7.11 Delays to outputs* *8.3 Fault signals from points* *9.5 Disablement of addressable point* *10 Test condition* *Notes:* *1. This product approval does not constitute compliance with the fire detection and alarm systems requirements of EN54-13.* *2. Scope of approval does not include the operation of the network functionality.*	1426g/01
SFS 2120E	Single Loop Analogue Addressable Control and Indicating Equipment Incorporating the following modules: SEC1000_CB Main Control Board SEC1000_MB IO Board PMC_01 Power Management Control Board LRS-75-24 Meanwell Power Supply Certified with the following options with requirements from EN54-2: 7.8 Output to fire alarm devices 7.11 Delays to outputs 8.3 Fault signals from points 9.5 Disablement of addressable points 10 Test condition *Notes:* *1. This product approval does not constitute compliance with the fire detection and alarm systems requirements of EN54-13.*	1426g/02

A copy of the certificate, confirming the full scope of approval including notes relating to the superscript references in the above table, may be viewed online by clicking on the product name in the associated entry on www.RedBookLive.com

Shenzhen HTI Sanjiang Electronics CO., Ltd

3/F., Guangcai Xintiandi Mansion, Nanshan Road, Nanshan District, Shenzhen, Guangdong 51804, China
Tel: +86 755 26521071
E-mail: shuxian.wei@fhsjdz.com

Certificate No: 1159h to EN54-2: 1997 + A1: 2006 & EN54-4: 1997 + A1: 2002 + A2: 2006

Control and indicating equipment

Certificated Products		LPCB Ref. No.
SEC3002	Single Loop Analogue Addressable Control and Indicating Equipment Incorporating the following modules: SEC3002_IO IO Board SEC3002_B Monitoring Board (B Board) ZB-9100-A Main CPU Board (A Board) PSE10_KZ Power Supply SEC3002_QK Zone Indication Board SEC3002_KEY Keyboard SEC3002_FL1 Loop SPU Board Incorporating the following optional modules: SEC3002_COM Communication Board Certified with the following options with requirements from EN54-2: 7.8 Output to fire alarm devices 7.10.1 Output type A 7.11 Delays to outputs 8.3 Fault signals from points 9.5 Disablement of addressable points 10 Test condition *Notes:* *1. This product approval does not constitute compliance with the fire detection and alarm systems requirements of EN 54-13.* *2. Scope of approval does not include the operation of the network functionality.*	1159h/01
SEC1000	Single Loop Analogue Addressable Control and Indicating Equipment Incorporating the following modules: SEC1000_CB Main Control Board SEC1000_MB IO Board PMC_01 Power Management Control Board LRS-75-24 Meanwell Power Supply Certified with the following options with requirements from EN54-2: 7.8 Output to fire alarm devices 7.11 Delays to outputs 8.3 Fault signals from points 9.5 Disablement of addressable points 10 Test condition *Notes:* *1. This product approval does not constitute compliance with the fire detection and alarm systems requirements of EN54-13.*	1159h/02

A copy of the certificate, confirming the full scope of approval including notes relating to the superscript references in the above table, may be viewed online by clicking on the product name in the associated entry on www.RedBookLive.com

---

Shield Fire, Safety & Security Ltd

Genesis, Unit 3, Endeavour Drive, Basildon SS14 3WF, United Kingdom
Tel: 01708 377 731 • Fax: 01708 347 637
E-mail: shielduk@shieldglobal.com • Website: www.shieldglobal.com

Certificate No: 1369a-(cl-2) to EN 54-2:1997 + A1:2006 & EN 54-4:1997 + A1:2002 + A2:2006

Control and indicating equipment

Certificated Products		LPCB Ref. No.
Mikro	Mikro 216 Single Loop 16 Zones Analogue Addressable Control and Indicating Equipment (Hochiki's ESP Protocol) Mikro 232 Single Loop 32 Zones Analogue Addressable Control and Indicating Equipment (Hochiki's ESP Protocol) Mikro 16 Single Loop 16 Zones Analogue Addressable Control and Indicating Equipment (Apollo's XP95/Discovery Protocol) Mikro 32 Single Loop 32 Zones Analogue Addressable Control and Indicating Equipment (Apollo's XP95/Discovery Protocol) Incorporating the following modules:	1369a/01

Certificated Products		LPCB Ref. No.
	MK.SA.1LP.EN Addressable Main Board MK.SA.32D.EN 32 Zones Keypad / Display Board (Applicable to Mikro 32 Zones) MK.SA.32D.EN 16 Zones Keypad / Display Board (Applicable to Mikro 16 Zones) MK.SA.PSU.EN Power Supply Certified with the following options with requirements from EN54-2: 7.8 Output to fire alarm devices 7.9.1 Output to fire alarm routing equipment 7.9.2 Alarm confirmation input from fire alarm routing equipment 7.10.1 Outputs to fire protection equipment Output type A 7.10.2 Outputs to fire protection equipment Output type B 7.10.3 Outputs to fire protection equipment Output type C 7.10.4 Fault monitoring of fire protection equipment 7.12.2 Dependencies on more than one alarm signal Type B dependency 8.3 Fault signals from points 9.5 Disablement of addressable point *Note:* *This product approval does not constitute compliance with the fire detection and alarms systems requirements of EN54-13.*	

A copy of the certificate, confirming the full scope of approval including notes relating to the superscript references in the above table, may be viewed online by clicking on the product name in the associated entry on www.RedBookLive.com

---

SHIELD FIRE, SAFETY AND SECURITY LTD

Unit 3 Endeavour Drive, Basildon, Essex SS14 3WF, United Kingdom
Tel: +44 207 712 1610 • Fax: +44 207 712 1578
E-mail: shielduk@shieldglobal.com • Website: www.shieldglobal.com

Certificate No: 360b-(cl-4) to EN54-2: 1997 + A1: 2002 & EN54-4: 1997 + A1: 2002 + A2: 2006

Control and indicating equipment

Certificated Products		LPCB Ref. No.
Trident	2 to 8 Loop Analogue Addressable Control and Indicating Equipment 2 to 16 Loop Analogue Addressable Control and Indicating Equipment Incorporating the following units: TEN-9021 LCD Main Processor Board TEN-9022 Main Back Board TEN-9023 Trident Network, Ethernet & IFAM Interface Module TEN-9058 Dual loop Module TEN-9069 System Board A module TEN-9070 System Board B Module TEN-9071 Zone LED Board TEN-9087 Trident Vision Unit TEN-9068 Trident Thermal Printer Assembly TEN-9606 5.25 Amp Power Supply Unit Incorporating the following optional modules: TEN-9810 10.25 Amp Power Supply Unit TEN-9072 16 Channel I/O card TEN-9091 8w Relay card TEN-9092 8w conventional zone card TEN-9088 Media gateway card TEN-9093 4w sounder card TEN-9086 4 slot expansion board (used for extension for the optional I/O boards) Certified with the following Options with requirements from EN 54-2:1997 7.8 Output to fire alarm device(s) 7.9.1 Output to fire alarm routing equipment 7.9.2 Alarm confirmation input from fire alarm routing equipment 7.10.3 Output to type C 7.10.4 Fault monitoring of fire protection equipment 7.11 Delay to outputs 7.12.1 Dependencies on more than one alarm signal - Type A	360b/01

Certificated Products		LPCB Ref. No.
	7.12.2 Dependencies on more than one alarm signal - Type B 7.12.3 Dependencies on more than one alarm signal - Type C 7.13 Alarm counter 8.3 Fault signals from points 8.9 Output to fault warning routing equipment 9.5 Disablement of addressable points 10 Test condition *Notes:* *1. Scope of certification does not include the operation of the network functionality.* *2. This certificate does not constitute compliance with the fire detection and alarm systems requirements of EN 54-13.* *3. The Trident CIE is certified with the M5 & M6 shallow enclosure and D5 & D6 deep enclosure.*	

A copy of the certificate, confirming the full scope of approval including notes relating to the superscript references in the above table, may be viewed online by clicking on the product name in the associated entry on www.RedBookLive.com

Certificate No: 810a-(cl-3) to EN54-2: 1997 + A1: 2002 & EN54-4: 1997 + A1: 2002 + A2: 2006

Control and indicating equipment

Certificated Products		LPCB Ref. No.
NS-EN2 / NS-EN4	2 Zone Conventional Control and Indicating Equipment Incorporating as modular units:TPC A01-S2 Eclipse two zone main PCB applicable on 2 zone CIE only TPC A02 Eclipse LED display PCB PSM1.5-24 Power supply 1.5A rated Certified with the following options with requirements from EN 54 Part 2:7.8 Output to fire alarm devices7.12.1 Dependency on more than one alarm signal type A10 Test condition 4 Zone Conventional Control and Indicating Equipment Incorporating as modular units:TPC A01- S4 Eclipse four zone main PCB applicable on 4 zone CIE only TPC A02 Eclipse LED display PCB PSM1.5-24 Power supply 1.5A rated Certified with the following options with requirements from EN 54 Part 2:7.8 Output to fire alarm devices7.12.1 Dependency on more than one alarm signal type A10 Test condition *Note:* *1. This product approval does not constitute compliance with the fire detection and alarm systems requirements of EN 54-13.*	810a/09
NS-EN8	8 Zone Conventional Control and Indicating Equipment Incorporating as modular units: TPCA01-X4 XLEN 4 Zone Main PCB TPCA03 XLEN Display Board TPCA04-H XLEN High Spec 4 Zone Extension Board PSM3.0-24 Power Supply Incorporating as optional module: NS-EN-NCB Network Communication Board Certified with the following options with requirements from EN 54 Part 2: 7.8 Output to fire alarm devices 7.11 Delays to outputs 7.12.1 Dependency on more than one alarm signal type A 7.12.2 Dependency on more than one alarm signal type B 7.12.3 Dependency on more than one alarm signal type C 10 Test condition *Note:* *1. This product approval does not constitute compliance with the fire detection and alarm systems requirements of EN 54-13.*	810a/10
NS-EN12	12 Zone Conventional Control and Indicating Equipment Incorporating as modular units: TPCA01-X4 XLEN 4 Zone Main PCB	810a/11

Certificated Products		LPCB Ref. No.
	TPCA03 XLEN Display Board TPCA04-S XLEN Standard 4 Zone Extension Board TPCA04-H XLEN High Spec 4 Zone Extension Board PSM3.0-24 Power Supply Incorporating as optional module: NS-EN-NCB Network Communication Board Certified with the following options with requirements from EN 54 Part 2: 7.8 Output to fire alarm devices 7.11 Delays to outputs 7.12.1 Dependency on more than one alarm signal type A 7.12.2 Dependency on more than one alarm signal type B 7.12.3 Dependency on more than one alarm signal type C 10 Test condition *Note:* *1. This product approval does not constitute compliance with the fire detection and alarm systems requirements of EN 54-13.*	
NS-EN16	16 Zone Conventional Control and Indicating Equipment Incorporating as modular units: TPCA10 32 Zone LED display PCB TPCA11-16 16 Zone Main PCB TPCA12 Power supply PCB Incorporating as optional module: TPCR01 Relay PCB TPCR03 Isolate Switch PCB TPCA09 Sounder Card PCB TPCA08 Output Card PCB NS-EN-NCB Network Communication Board Certified with the following options with requirements from EN 54 Part 2: 7.8 Output to fire alarm devices 7.9.1 Output to fire alarm routing equipment 7.11 Delays to outputs 7.12.1 Dependency on more than one alarm signal type A 7.12.2 Dependency on more than one alarm signal type B 7.12.3 Dependency on more than one alarm signal type C 10 Test condition *Note:* *1. This product approval does not constitute compliance with the fire detection and alarm systems requirements of EN 54-13.*	810a/12
NS-EN24	24 Zone Conventional Control and Indicating Equipment Incorporating as modular units: TPCA10 32 Zone LED display PCB TPCA11-24 24 Zone Main PCB TPCA12 Power supply PCB Incorporating as optional module: TPCR01 Relay PCB TPCR03 Isolate Switch PCB TPCA09 Sounder Card PCB TPCA08 Output Card PCB NS-EN-NCB Network Communication Board Certified with the following options with requirements from EN 54 Part 2: 7.8 Output to fire alarm devices 7.9.1 Output to fire alarm routing equipment 7.11 Delays to outputs 7.12.1 Dependency on more than one alarm signal type A 7.12.2 Dependency on more than one alarm signal type B 7.12.3 Dependency on more than one alarm signal type C 10 Test condition *Note:* *1. This product approval does not constitute compliance with the fire detection and alarm systems requirements of EN 54-13.*	810a/13
NS-EN32	32 Zone Conventional Control and Indicating Equipment Incorporating as modular units:	810a/14

Certificated Products		LPCB Ref. No.
	TPCA10 32 Zone LED display PCB TPCA11-32 32 Zone Main PCB TPCA12 Power supply PCB Incorporating as optional module: TPCR01 Relay PCB TPCR03 Isolate Switch PCB TPCA09 Sounder Card PCB TPCA08 Output Card PCB NS-EN-NCB Network Communication Board Certified with the following options with requirements from EN 54 Part 2: 7.8 Output to fire alarm devices 7.9.1 Output to fire alarm routing equipment 7.11 Delays to outputs 7.12.1 Dependency on more than one alarm signal type A 7.12.2 Dependency on more than one alarm signal type B 7.12.3 Dependency on more than one alarm signal type C 10 Test condition *Note:* *1. This product approval does not constitute compliance with the fire detection and alarm systems requirements of EN 54-13.*	

A copy of the certificate, confirming the full scope of approval including notes relating to the superscript references in the above table, may be viewed online by clicking on the product name in the associated entry on www.RedBookLive.com

---

Siemens Switzerland Ltd

Theilerstrasse 1a, , CH-6300 Zug, Switzerland
Website: www.siemens.com

Certificate No: 126bn to EN54-2: 1997 + A1: 2006 & EN54-4: 1997 + A1: 2002 + A2: 2006
Certificate No: 531q-(cl-1) to EN54-2: 1997 + A1: 2006 & EN54-4: 1997 + A1: 2002 + A2: 2006

Control and indicating equipment

Certificated Products		LPCB Ref. No.
FC2020	Control and Indicating Equipment Incorporating as modular units: FCM2027 PMI- & Mainboard FCM2028-A2 Operating unit FCM2037-A2 Operating unit (w/o accs.) FP2015-A1 70W Power supply FCI2002-A1 Periphery board (2-Loop) and as optional modular units: FCA2001-A1 RS232 Module (isolated) FCA2002-A1 RS485 Module (isolated) FCA2031-A1 Connection Module (MoNet) FCI2001-D1 Fire brigade periphery module FCI2003-A1 Loop expansion (FDnet) FCM2036-A2 Operating add-on (4xLED indication) FCM2038-A2 Operating add-on (2xLED indication) FN2001-A1 Network module (SAFEDLINK) (See note 1) FN2008-A1 Ethernet Switch (MM) (see note 1) FN2012-A1 Ethernet Switch (modular) FTO2001-A1 Event printer set FTO2008-A1 LED module SV24V-150W Power Supply VN2002-A1 Ethernet module (MM) VN2003-A1 Ethernet module (SM) FHA2002-A1 Rear housing standard FHA2003-A1 Rear Housing Comfort Certified with the following Options with requirements from EN 54-2: 7.8 Output to fire alarm devices 7.9.1 Output to fire alarm routing equipment	126bn/01

Certificated Products		LPCB Ref. No.
	7.9.2 Alarm Confirmation from fire alarm routing equipment 7.10.1 Output to automatic fire protection equipment Type A 7.10.2 Output to automatic fire protection equipment Type B 7.10.3 Output to automatic fire protection equipment Type C 7.10.4 Fault monitoring of automatic fire protection Equipment 7.11 Delays to outputs 7.12.2 Dependencies on more than one alarm signal type B (only for FDnet- & MS9i-line technology) 7.12.3 Dependencies on more than one alarm signal type C 7.13 Alarm counter 8.3 Fault signals from points 8.9 Output to fault warning routing equipment 9.5 Disablement of addressable points 10 Test condition *Notes:* *1. Scope of approval does not include the operation of the network functionality.* *2. This approval does not constitute compliance with the fire detection and alarm systems requirements of EN 54-13.*	
FC2030	Control and Indicating Equipment Incorporating as modular units: FCM2027 PMI- & Mainboard FCM2028-A2 Operating unit FCM2037-A2 Operating unit (w/o accs.) SV24V-150W 150W Power supply FCI2002-A1 Periphery board (2-Loop) FCA2007-A1 Card cage (2 slot) and as optional modular units: FCA2001-A1 RS232 Module (isolated) FCA2002-A1 RS485 Module (isolated) FCA2006-A1 Connection mod. (card cage) FCA2007-A1 Card cage FCA2031-A1 Connection Module (MoNet) FCI2001-D1 Fire brigade periphery module FCI2003-A1 Loop expansion (Fdnet) FCI2007-A1 I/O Card RT FCI2008-A1 I/O Card (programmable) FCI2009-A1 I/O Card Horn FCL2001-A1 Line Card (Fdnet) FCL2002-A1 Line Card (collective) FCL2003-A1 Line Card (MS9i) FCL2005-A1 Linecard (AnalogPlus) FCL2006-A1 Linecard (Interactive) FCL2007-A1 Linecard (InteractiveEx) FCM2036-A2 Operating addition (4 xLED indication) FCM2015-D1 Operating add-on (DA ind) FCM2036-A2 Operating add-on (4xLED indication) FCM2038-A2 Operating add-on (2xLED indication) FN2001-A1 Network module (SAFEDLINK) (See note 1) FN2008-A1 Ethernet Switch (MM) (see note 1) FN2012-A1 Ethernet Switch (modular) FTO2001-A1 Event printer set FTO2008-A1 LED module VN2002-A1 Ethernet module (MM) VN2003-A1 Ethernet module (SM) FC2030-CR Housing Rear (CH) FHA2003-A1 Rear housing comfort Certified with the following Options with requirements from EN 54-2: 7.8 Output to fire alarm devices 7.9.1 Output to fire alarm routing equipment 7.9.2 Alarm Confirmation from fire alarm routing equipment 7.10.1 Output to automatic fire protection equipment Type A 7.10.2 Output to automatic fire protection equipment Type B 7.10.3 Output to automatic fire protection equipment Type C 7.10.4 Fault monitoring of automatic fire protection Equipment 7.11 Delays to outputs 7.12.1 Dependencies on more than one alarm signal type A (only for MS9i-, collective-, AnalogPlus-, Interactive - & InteractiveEx-line Technology) 7.12.2 Dependencies on more than one alarm signal type B 7.12.3 Dependencies on more than one alarm signal type C	126bn/02

Certificated Products		LPCB Ref. No.
	7.13 Alarm counter 8.3 Fault signals from points 8.9 Output to fault warning routing equipment 9.5 Disablement of addressable points 10 Test condition *Notes:* *1. Scope of approval does not include the operation of the network functionality.* *2. This approval does not constitute compliance with the fire detection and alarm systems requirements of EN 54-13.*	
FC2040	Control and Indicating Equipment Incorporating as modular units; FCM2027 PMI- & Mainboard FCM2028-A2 Operating unit FCM2037-A2 Operating unit (w/o accs.) SV24V-150W 150W Power supply FCI2004-A1 Periphery board (4-Loop) and as optional modular units: FCA2001-A1 RS232 Module (isolated) FCA2002-A1 RS485 Module (isolated) FCA2031-A1 Connection Module (MoNet) FCI2001-D1 Fire brigade periphery module FCI2003-A1 Loop expansion (Fdnet) FCM2036-A2 Operating add-on (4xLED indication) optional FCM2038-A2 Operating add-on (2xLED indication) optional FN2001-A1 Network module (SAFEDLINK) (See note 1) FN2008-A1 Ethernet Switch (MM) (see note 1) FN2012-A1 Ethernet Switch (modular) FTO2001-A1 Event printer set FTO2008-A1 LED module VN2002-A1 Ethernet module (MM) VN2003-A1 Ethernet module (SM) FHA2003-A1 Rear housing comfort FHA2005-A1 Rear Housing Large Certified with the following Options with requirements from EN 54-2: 7.8 Output to fire alarm devices 7.9.1 Output to fire alarm routing equipment 7.9.2 Alarm Confirmation from fire alarm routing equipment 7.10.1 Output to automatic fire protection equipment Type A 7.10.2 Output to automatic fire protection equipment Type B 7.10.3 Output to automatic fire protection equipment Type C 7.10.4 Fault monitoring of automatic fire protection Equipment 7.11 Delays to output 7.12.2 Dependencies on more than one alarm signal type B (only for FDnet- & MS9i-line Technology) 7.12.3 Dependencies on more than one alarm signal type C 7.13 Alarm counter 8.3 Fault signals from points 8.9 Output to fault warning routing equipment 9.5 Disablement of addressable points 10 Test condition *Notes:* *1. Scope of approval does not include the operation of the network functionality.* *2. This approval does not constitute compliance with the fire detection and alarm systems requirements of EN 54-13.*	126bn/03
FC2060	Control and Indicating Equipment Incorporating as modular units: FCM2027 PMI- & Mainboard FCM2028-A2 Operating unit FCM2037-A2 Operating unit (w/o accs.) SV24V-150W 150W Power supply FCI2004-A1 Periphery board (4-Loop) FCA2008-A1 Card cage (5 slot) and as optional modular units: FCA2001-A1 RS232 Module (isolated) FCA2002-A1 RS485 Module (isolated) FCA2006-A1 Connection mod. (card cage) FCA2008-A1 Card cage (5 slot)	126bn/04

Certificated Products		LPCB Ref. No.
	FCA2031-A1 Connection Module (MoNet) FCI2001-D1 Fire brigade periphery module FCI2003-A1 Loop expansion (FDnet) FCI2004-A1 Periphery board 4 loop FCI2007-A1 I/O Card RT FCI2008-A1 I/O Card (programmable) FCI2009-A1 I/O Card Horn FCL2001-A1 Line Card (FDnet) FCL2002-A1 Line Card (collective) FCL2003-A1 Line Card (MS9i) FCL2005-A1 Linecard (AnalogPlus) FCL2006-A1 Linecard (Interactive) FCL2007-A1 Linecard (InteractiveEx) FCM2036-A2 Operating add-on (4xLED indication) FCM2038-A2 Operating add-on (2xLED indication) FN2001-A1 Network module (SAFEDLINK) (See note 1) FN2008-A1 Ethernet Switch (MM) (see note 1) FN2012-A1 Ethernet Switch (modular) FTO2001-A1 Event printer set FTO2003-D1 LED emergency alarm indicator FTO2008-A1 LED module VN2002-A1 Ethernet module (MM) VN2003-A1 Ethernet module (SM) FHA2005-A1 Rear housing large Certified with the following Options with requirements from EN 54-2: 7.8 Output to fire alarm devices 7.9.1 Output to fire alarm routing equipment 7.9.2 Alarm Confirmation from fire alarm routing equipment 7.10.1 Output to automatic fire protection equipment Type A 7.10.2 Output to automatic fire protection equipment Type B 7.10.3 Output to automatic fire protection equipment Type C 7.10.4 Fault monitoring of automatic fire protection equipment 7.11 Delays to outputs 7.12.1 Dependencies on more than one alarm signal type A (only for MS9i-, collective-, AnalogPlus-, Interactive - & InteractiveEx-line Technology) 7.12.2 Dependencies on more than one alarm signal type B 7.12.3 Dependencies on more than one alarm signal type C 7.13 Alarm counter 8.3 Fault signals from points 8.9 Output to fault warning routing equipment 9.5 Disablement of addressable points 10 Test condition *Notes:* *1. Scope of approval does not include the operation of the network functionality.* *2. This approval does not constitute compliance with the fire detection and alarm systems requirements of EN 54-13.*	
FC721	Control and Indicating Equipment Incorporating as modular units: FCM7204-Z3 Operating unit FCM7215-Y3 Operating unit (w/o acces.) FP2015-A1 70W Power supply FCI2010-A1 Periphery board (1-Loop) FCM2027 PMI- & Mainboard and as optional modular units: FCA2001-A1 RS232 Module (isolated) FCA2002-A1 RS485 Module (isolated) FCM7213-Y3 Operating add-on (2xLED indication) FCM7214-Y3 Operating add-on (4xLED indication) FTO2001-A1 Event printer set FTO2008-A1 LED module FHA2001-A1 Rear Housing (Eco) Certified with the following Options with requirements from EN 54-2: 7.8 Output to fire alarm devices 7.9.1 Output to fire alarm routing equipment 7.9.2 Alarm Confirmation from fire alarm routing equipment 7.10.1 Output to automatic fire protection equipment Type A 7.10.2 Output to automatic fire protection equipment Type B 7.10.3 Output to automatic fire protection equipment Type C	126bn/05

Certificated Products		LPCB Ref. No.
	7.10.4 Fault monitoring of automatic fire protection equipment 7.11 Delays to outputs 7.12.2 Dependencies on more than one alarm signal type B (only for FDnet- & MS9i-line Technology) 7.12.3 Dependencies on more than one alarm signal type C 7.13 Alarm counter 8.3 Fault signals from points 8.9 Output to fault warning routing equipment 9.5 Disablement of addressable points 10 Test condition *Notes:* *1. Scope of approval does not include the operation of the network functionality.* *2. This approval does not constitute compliance with the fire detection and alarm systems requirements of EN 54-13.*	
FC722	Control and Indicating Equipment Incorporating as modular units: FCM2027 PMI- & Mainboard FCM7204-Z3 Operating unit FCM7215-Y3 Operating unit (w/o acces.) SV24V/150W 150W Power supply FCI2002-A1 Periphery board (2-Loop) and as optional modular units: FCA2001-A1 RS232 Module (isolated) FCA2002-A1 RS485 Module (isolated) FCA2031-A1 Connection Module (MoNet) FCI2001-D1 Fire brigade periphery module FCI2003-A1 Loop expansion (FDnet) FCM7213-Y3 Operating add-on (2xLED indication) FCM7214-Y3 Operating add-on (4xLED indication) FN2001-A1 Network module (SAFEDLINK) (See note 1) FN2008-A1 Ethernet Switch (MM) (see note 1) FN2012-A1 Ethernet Switch (modular) FP2015-A1 Power Supply 70W FTO2001-A1 Event printer set FTO2008-A1 LED module VN2002-A1 Ethernet module (MM) VN2003-A1 Ethernet module (SM) FHA2002-A1 Rear wall Standard FHA2003-A1 Rear Housing Comfort Certified with the following Options with requirements from EN 54-2: 7.8 Output to fire alarm devices 7.9.1 Output to fire alarm routing equipment 7.9.2 Alarm Confirmation from fire alarm routing equipment 7.10.1 Output to automatic fire protection equipment Type A 7.10.2 Output to automatic fire protection equipment Type B 7.10.3 Output to automatic fire protection equipment Type C 7.10.4 Fault monitoring of automatic fire protection equipment 7.11 Delays to outputs 7.12.2 Dependencies on more than one alarm signal type B (only for FDnet- & MS9i-line Technology) 7.12.3 Dependencies on more than one alarm signal type C 7.13 Alarm counter 8.3 Fault signals from points 8.9 Output to fault warning routing equipment 9.5 Disablement of addressable points 10 Test condition *Notes:* *1. Scope of approval does not include the operation of the network functionality.* *2. This approval does not constitute compliance with the fire detection and alarm systems requirements of EN 54-13*	126bn/06
FC724	Control and Indicating Equipment Incorporating as modular units: FCM7204-Z3 Operating unit FCM7215-Y3 Operating unit (w/o acces.) SV24V/150W 150W Power supply FCI2004-A1 Periphery board (4-Loop) FCM2027 PMI- & Mainboard	126bn/07

Certificated Products		LPCB Ref. No.
	and as optional modular units: FCA2001-A1 RS232 Module (isolated) FCA2002-A1 RS485 Module (isolated) FCA2031-A1 Connection Module (MoNet) FCI2001-D1 Fire brigade periphery module FCI2003-A1 Loop expansion (Fdnet) FCM7213-Y3 Operating add-on (2xLED indication) FCM7214-Y3 Operating add-on (4xLED indication) FN2001-A1 Network module (SAFEDLINK) (See note 1) FN2008-A1 Ethernet Switch (MM) (see note 1) FN2012-A1 Ethernet Switch (modular) FTO2001-A1 Event printer set FTO2008-A1 LED module VN2002-A1 Ethernet module (MM) VN2003-A1 Ethernet module (SM) FHA2003-A1 Rear housing comfort Certified with the following Options with requirements from EN 54-2: 7.8 Output to fire alarm devices 7.9.1 Output to fire alarm routing equipment 7.9.2 Alarm Confirmation from fire alarm routing equipment 7.10.1 Output to automatic fire protection equipment Type A 7.10.2 Output to automatic fire protection equipment Type B 7.10.3 Output to automatic fire protection equipment Type C 7.10.4 Fault monitoring of automatic fire protection equipment 7.11 Delays to outputs 7.12.2 Dependencies on more than one alarm signal type B (only for FDnet- & MS9i-line Technology) 7.12.3 Dependencies on more than one alarm signal type C 7.13 Alarm counter 8.3 Fault signals from points 8.9 Output to fault warning routing equipment 9.5 Disablement of addressable points 10 Test condition *Notes:* *1. Scope of approval does not include the operation of the network functionality.* *2. This approval does not constitute compliance with the fire detection and alarm systems requirements of EN 54-13.*	
FC726	Control and Indicating Equipment	126bn/08
	Incorporating as modular units: FCM7204-Z3 Operating unit FCM7215-Y3 Operating unit (w/o acces.) FCA2006-A1 Connection mod. (card cage) SV24V/150W 150W Power supply FCI2004-A1 Periphery board (4-Loop) FCA2008-A1 Card cage (5 slot) FCM2027 PMI- & Mainboard and as optional modular units: FCA2001-A1 RS232 Module (isolated) FCA2002-A1 RS485 Module (isolated) FCA2031-A1 Connection Module (MoNet) FCI2001-D1 Fire brigade periphery module FCI2003-A1 Loop expansion (FDnet) FCI2007-A1 I/O Card RT FCI2008-A1 I/O Card (programmable) FCI2009-A1 I/O Card Horn FCL2001-A1 Line Card (FDnet) FCL2002-A1 Line Card (collective) FCL2003-A1 Line Card (MS9i) FCL2006-A1 Linecard (Interactive) FCL2007-A1 Linecard (InteractiveEx) FCL7201-Z3 Linecard (SynoLoop) FCM7213-Y3 Operating add-on (2xLED indication) FCM7214-Y3 Operating add-on (4xLED indication) FN2001-A1 Network module (SAFEDLINK) (See note 1) FN2008-A1 Ethernet Switch (MM) (see note 1) FN2012-A1 Ethernet Switch (MM/SM)) FTO2001-A1 Event printer set FTO2003-D1 LED emergency alarm indicator	

Certificated Products		LPCB Ref. No.
	FTO2008-A1 LED module VN2002-A1 Ethernet module (MM) VN2003-A1 Ethernet module (SM) FHA2005-A1 Rear housing large Certified with the following Options with requirements from EN 54-2: 7.8 Output to fire alarm devices 7.9.1 Output to fire alarm routing equipment 7.9.2 Alarm Confirmation from fire alarm routing equipment 7.10.1 Output to automatic fire protection equipment Type A 7.10.2 Output to automatic fire protection equipment Type B 7.10.3 Output to automatic fire protection equipment Type C 7.10.4 Fault monitoring of automatic fire protection equipment 7.11 Delays to outputs 7.12.1 Dependencies on more than one alarm signal A (only for MS9i-, collective-, SynoLoop-, Interactive - & InteractiveEx- line Technology) 7.12.2 Dependencies on more than one alarm signal type B 7.12.3 Dependencies on more than one alarm signal type C 7.13 Alarm counter 8.3 Fault signals from points 8.9 Output to fault warning routing equipment 9.5 Disablement of addressable points 10 Test condition *Notes:* *1. Scope of approval does not include the operation of the network functionality.* *2. This approval does not constitute compliance with the fire detection and alarm systems requirements of EN 54-13*	
FC723	Control and Indicating Equipment Incorporating as modular units: FCM7204-Z3 Operating unit FCM7215-Y3 Operating unit (w/o acces.) FCA2006-A1 Connection mod. (card cage) FCA2007-A1 Card cage (2slot) SV24V/150W 150W Power supply FCI2002-A1 Periphery board (2-Loop) FCM2027 PMI- & Mainboard and as optional modular units: FCA2001-A1 RS232 Module (isolated) FCA2002-A1 RS485 Module (isolated) FCA2031-A1 Connection Module (MoNet) FCI2001-D1 Fire brigade periphery module FCI2003 Loop expansion (Fdnet) FCI2007-A1 I/O Card RT FCI2008-A1 I/O Card (programmable) FCI2009-A1 I/O Card Horn FCL2001-A1 Line Card (Fdnet) FCL2002-A1 Line Card (collective) FCL2003-A1 Line Card (MS9i) FCL2006-A1 Linecard (Interactive) FCL2007-A1 Linecard (InteractiveEx) FCL7201-Z3 Linecard (SynoLoop) FCM7204-Z3 Control unit FCM7213-Y3 Operating add-on (2xLED indication) FCM7214-Y3 Operating add-on (4xLED indication) FN2001-A1 Network module (SAFEDLINK) (See note 1) FN2008-A1 Ethernet Switch (MM) (see note 1) FN2012-A1 Ethernet Switch (modular) FTO2001-A1 Event printer set FTO2008-A1 LED module VN2002-A1 Ethernet module (MM) VN2003-A1 Ethernet module (SM) FHA2003-A1 Rear housing comfort Certified with the following Options with requirements from EN 54-2: 7.8 Output to fire alarm devices 7.9.1 Output to fire alarm routing equipment 7.9.2 Alarm Confirmation from fire alarm routing equipment 7.10.1 Output to automatic fire protection equipment Type A 7.10.2 Output to automatic fire protection equipment Type B 7.10.3 Output to automatic fire protection equipment Type C	126bn/09

Certificated Products		LPCB Ref. No.
	7.10.4 Fault monitoring of automatic fire protection Equipment 7.11 Delays to outputs 7.12.1 Dependencies on more than one alarm signal type A (only for MS9i-, collective-, SynoLoop-, Interactive - & InteractiveEx- line Technology) 7.12.2 Dependencies on more than one alarm signal type B 7.12.3 Dependencies on more than one alarm signal type C 7.13 Alarm counter 8.3 Fault signals from points 8.9 Output to fault warning routing equipment 9.5 Disablement of addressable points 10 Test condition *Note:* *1.Scope of approval does not include the operation of the network functionality.* *2. This approval does not constitute compliance with the fire detection and alarm systems requirements of EN 54-13.*	
FT2040	Fire detection terminal for use with FC2020, FC2030, FC2040 & FC2060 Control and Indicating Equipment Incorporating as modular units: FCM2027 PMI- & Mainboard FCM2028-A2 Operating unit FCM2037-A2 Operating unit (w/o accs.) FTI2001-A1 Fire terminal board FP2015-A1 Power Supply 70W and as optional modular units: FCA2001-A1 RS232 Module (isolated) FCA2002 A1 RS485 Module (isolated) FCA2031-A1 Connection Module (MoNet) FCM2036-A2 Operating add-on (4xLED indication) FCM2038-A2 Operating add-on (2xLED indication) FN2001-A1 Network module (SAFEDLINK) (See note 1) FN2008-A1 Ethernet Switch (MM) (see note 1) FN2012-A1 Ethernet Switch (MM/SM) FTO2001-A1 Event printer set FTO2008-A1 LED module VN2002-A1 Ethernet module (MM) VN2003-A1 Ethernet module (SM) FHA2001-A1 Rear housing (Eco) H28G200 Housing base *Notes:* *1. Scope of approval does not include the operation of the network functionality.* *2. This approval does not constitute compliance with the fire detection and alarm systems requirements of EN 54-13*	126bn/R01
FT724	Fire detection terminal for use with FC721, FC722, FC723, FC724 & FC726 Control and Indicating Equipment Incorporating as modular units: FCM7204-Z3 Operating unit FCM7215-Y3 Operating unit (w/o acces.) FTI2001-A1 Fire terminal board FP2015-A1 Power Supply 70W FCM2027 PMI- & Mainboard and as optional modular units: FCA2001-A1 RS232 Module (isolated) FCA2002-A1 RS485 Module (isolated) FCA2031-A1 Connection Module (MoNet) FCM7213-Y3 Operating add-on (2xLED indication) FCM7214-Y3 Operating add-on (4xLED indication) FN2001-A1 Network module (SAFEDLINK) (See note 1) FN2008-A1 Ethernet Switch (MM) (see note 1) FN2012-A1 Ethernet Switch (MM/SM) FTO2001-A1 Event printer set FTO2008-A1 LED module VN2002-A1 Ethernet module (MM) VN2003-A1 Ethernet module (SM) FHA2001-A1 Rear housing (Eco) H28G200 Metal Housing *Scope of approval does not include the operation of the network functionality.* *2. This approval does not constitute compliance with the fire detection and alarm systems requirements of EN 54-13.*	126bn/R02

A copy of the certificate, confirming the full scope of approval including notes relating to the superscript references in the above table, may be viewed online by clicking on the product name in the associated entry on www.RedBookLive.com

Certificate No: 531q-(cl-1) to EN 54-2:1997 + A1:2006 and EN 54-4:1997 + A1:2002 + A2:2006

Certificated Products		**LPCB Ref. No.**
FC123-ZA and FC124-ZA	FC123-ZA Eight Zone Conventional Control and Indicating Equipment FC124-ZA Twelve Zone Conventional Control and Indicating Equipment Incorporating the units: PCBA FC123-ZA Eight zone main control board PCBA FC124-ZA Twelve zone main control board FP2015-A1 Power supply (70W) Optional modules: FCA1203-Z1 Output card 2M2R FTO1202-Z1 Zone indication field 12x2 LED FTO1203-H1 EVAC module (applicable on NL model only) FCA1206-Z1 Key switch set (applicable on Nordic SE model only) Certified with the following options with requirements from EN 54-2: 1997 7.8 Output to fire alarm devices 7.9.1 Output to fire alarm routing equipment 7.9.2 Alarm confirmation input from fire alarm routing equipment 7.10.1 Outputs to fire protection equipment (Type A) 7.11 Delays to outputs 7.12.1 Dependencies on more than one alarm signal (Type A dependency) 7.12.2 Dependencies on more than one alarm signal (Type B dependency) 7.13 Alarm counter 8.9 Output to fault warning routing equipment 10 Test condition	531q/
FC121-ZA and FC122-ZA FC122-ZA	FC121-ZA Two Zone Conventional Control and Indicating Equipment FC122-ZA Four Zone Conventional Control and Indicating Equipment Incorporating the units: PCBA FC121-ZA Two zone main control board with integrated power supply PCBA FC122-ZA Four zone main control board with integrated power supply Optional modules: FCA1203-Z1 Output card 2M2R FTO1201-H1 EVAC module (applicable on NL model only) FCA1206-Z1 Key switch set (applicable on Nordic SE model only) Certified with the following options with requirements from EN 54-2: 1997 7.8 Output to fire alarm devices 7.9.1 Output to fire alarm routing equipment 7.9.2 Alarm confirmation input from fire alarm routing equipment 7.10.1 Outputs to fire protection equipment (Type A) 7.11 Delays to outputs 7.12.1 Dependencies on more than one alarm signal (Type A dependency) 7.12.2 Dependencies on more than one alarm signal (Type B dependency) 7.13 Alarm counter 8.9 Output to fault warning routing equipment 10 Test condition	531q/01
FC361-ZZ and FC361-ZA	FC361-ZZ Analogue Addressable Control and Indicating Equipment FC361-ZA Analogue Addressable Control and Indicating Equipment FC361-ZZ Control and Indicating Equipment Compact (Standard Housing) Incorporating the following modules: FCM3601-Z1 Main Board FHD3601-Z1 PMI - Personnel Machine Interface FP2015-A1 Power Supply (70 W) Optional modules: FCA3602-Z1 4M Output card FCA2001-A1 RS232 module FCA2002-A1 RS485 module FCA3603-Z1 Key switch - Nordic FCA3601-Z1 Key switch FTO3603-Z1 LED Indicator (32 zones) FTO3601-H1 Evacuation Module	531q/03

Certificated Products		LPCB Ref. No.
	FC361-ZA Control and Indicating Equipment Comfort (Large Housing) Incorporating the following modules: FCM3601-Z1 Main Board FHD3601-Z1 PMI - Personnel Machine Interface FP2015-A1 Power Supply (70 W) Optional modules: FCA3602-Z1 4M Output card FCA2001-A1 RS232 module FCA2002-A1 RS485 module FCA3603-Z1 Key switch - Nordic FCA3601-Z1 Key switch FTO3603-Z1 LED Indicator (32 zones) FTO3601-H1 Evacuation Module Certified with the following options with requirements from EN 54-2: 1997 7.8 Output to fire alarm devices 7.9.1 Output to fire alarm routing equipment 7.9.2 Alarm confirmation input from fire alarm routing equipment 7.10.1 Outputs to fire protection equipment (Output Type A) 7.11 Delays to outputs 7.12.1 Dependencies on more than one alarm signal (Type A dependency) 7.13 Alarm counter 8.3 Fault signals from points 8.9 Output to fault warning routing equipment 9.5 Disablement of each address point 10. Test condition *Notes:1. Z= Housing for 7Ah & 12Ah Battery; A=Housing for 7Ah, 12Ah & 25Ah Battery.* *2. Scope of approval does not include the operation of the network functionality.* *3. This product approval does not constitute compliance with the fire detection and alarm system requirements of EN54-13.*	
FC362-ZZ and FC362-ZA	FC362-ZZ Two Loop Analogue Addressable Control and Indicating Equipment FC362-ZA Two Loop Analogue Addressable Control and Indicating Equipment Incorporating the following modules: FCM3601-Z2 Mainboard FHD3601-Z1 PMI - Personnel Machine Interface FP2015-A1 Power Supply (70W) Optional modules: FCA3602-Z1 4M Output card FCA2001-A1 RS232 Module FCA2002-A1 RS485 Module FCA3603-Z1 Key switch - Nordic FCA3601-Z1 Key switch FTO3603-Z1 LED Indicator (32 zones) FTO3601-H1 Evacuation Module Certified with the following options with requirements from EN 54-2: 1997: 7.8 Output to fire alarm device(s) 7.9.1 Output to fire alarm routing equipment 7.9.2 Alarm confirmation input from fire alarm routing equipment 7.10.1 Output type A 7.11 Delays to outputs 7.12.1 Dependencies on more than one alarm signal- Type A 7.13 Alarm counter 8.3 Fault signals from points 8.9 Output to fault warning routing equipment 9.5 Disablement of each address point 10 Test condition *Notes:* *1. Scope of approval does not include the operation of the network functionality.* *2. This product approval does not constitute compliance with the fire detection and alarm system requirements of EN54-13.* *3. Z= Housing for 7Ah & 12Ah Battery; A=Housing for 7Ah, 12Ah & 25Ah Battery.*	531q/04

A copy of the certificate, confirming the full scope of approval including notes relating to the superscript references in the above table, may be viewed online by clicking on the product name in the associated entry on www.RedBookLive.com

SMS (Novar Systems Ltd)

Building 5, Carlton Park, King Edward Avenue, Narborough, Leicester LE19 0AL, United Kingdom
Tel: +44 (0)116 246 2100 • Fax: +44 (0)116 246 2016
Website: www.smsfire.co.uk

Certificate No: 567ap-(cl-1) to EN 54-2: 1997+ A1: 2006 and EN 54-4: 1997 + A1: 2002 + A2: 2006
Certificate No: 042cb-(cl-1) to EN 54-2: 1997+ A1: 2006 and EN 54-4: 1997 + A1: 2002 + A2: 2006
Certificate No: 042cc-(cl-1) to EN 54-2: 1997+ A1: 2006 and EN 54-4: 1997 + A1: 2002 + A2: 2006

Certificated Products		**LPCB Ref. No.**
Sentri1	Single loop analogue addressable control and indicating equipment *Incorporating as modular units:* *2434-881 Mother board* *2434-862 Power supply* *2434-887 H.M.I (Human Machine Interface)* *Certified with the following options with requirements from EN 54 Part 2:* *7.8 Output to fire alarm devices* *7.11 Delays to outputs* *8.3 Fault signals from points* *10 Test condition*	567ap/01

A copy of the certificate, confirming the full scope of approval including notes relating to the superscript references in the above table, may be viewed online by clicking on the product name in the associated entry on www.RedBookLive.com

Certificate No: 567aq-(cl-1) to EN 54-2: 1997+ A1: 2006 and EN 54-4: 1997 + A1: 2002 + A2: 2006

Control and indicating equipment

Certificated Products		**LPCB Ref. No.**
SENTRI2	One to Two Loop Analogue Addressable Control and Indicating Equipment Incorporating the following modules: SENTRI2-MCB-N Master Control Board networkable SENTRI2-PSU-N Power Supply Unit SENTRI2-IDOOR Display and Key card (DKC) SENTRI2-LPC-EN Loop processor card SENTRI2-NC Copper network card Certified with the following options with requirements from EN54-2: 7.8 Output to fire alarm device(s) 7.11 Delays to outputs 8.3 Fault signals from points 9.5 Disablement of each address point 10 Test condition *Notes:* *1. This product approval does not constitute compliance with the fire detection and alarm systems requirements of EN 54-13.* *2. Scope of approval does not include the operation of the network functionality.*	567aq/01

A copy of the certificate, confirming the full scope of approval including notes relating to the superscript references in the above table, may be viewed online by clicking on the product name in the associated entry on www.RedBookLive.com

Certificate No: 567ar-(cl-1) to EN 54-2: 1997+ A1: 2006 and EN 54-4: 1997 + A1: 2002 + A2: 2006

Control and indicating equipment

Certificated Products		**LPCB Ref. No.**
SENTRI4	One to Four Loop Analogue Addressable Control and Indicating Panel Incorporating the following modules: SENTRI4-LPC-EN SENTRI Loop Card SENTRI4-MCC-24 Local Controller Card	567ar/01

Certificated Products		LPCB Ref. No.
SENTRI4-NC	Copper Network Card	
SENTRI4-PSU-24	Power Supply Unit	
SENTRI4-BPlane	Backplane	
SENTRI4-IDOOR	SENTRI Display Board - D.K.C	
SENTRI4-PRIN	Printer Assembly	
SENTRI4-NC-SMF	Single Mode Fibre Network Card	
	Certified with the following options with requirements from EN54-2:	
	7.8 Output to fire alarm device(s)	
	7.11 Delays to outputs	
	8.3 Fault signals from points	
	9.5 Disablement of each address point	
	10 Test condition	
	Notes:	
	1. This product approval does not constitute compliance with the fire detection and alarm systems requirements of EN 54-13.	
	2. Scope of approval does not include the operation of the network functionality.	

A copy of the certificate, confirming the full scope of approval including notes relating to the superscript references in the above table, may be viewed online by clicking on the product name in the associated entry on www.RedBookLive.com

---

Syncoln Ltd

3rd Floor, 14 Hanover Street, Mayfair, London W1S 1YH, United Kingdom
Tel: +44 (0)207 514 5813
E-mail: sales@syncoln.com • Website: www.syncoln.com

Certificate No: 176b-(cl-3) to EN 54-2:1997 + A1:2006 & EN 54-4:1997 + A1:2002 +A2:2006

Control and indicating equipment

Certificated Products		LPCB Ref. No.
CFP702-4/SYN	Two Zone Red Conventional Control and Indicating Equipment	176b/07
	Incorporating the following units:	
	SPF0702480 Switch mode power supply unit board	
	SPF0724851 2 Zone main control board	
	Certified with the following options with requirements from EN 54-2: 1997	
	7.8 Output to fire alarm devices(s)	
	7.11 Delays to outputs	
	10 Test condition	
CFP704-4/SYN	Four Zone Red Conventional Control and Indicating Equipment	176b/08
	Incorporating the following units:	
	SPF0702480 Switch mode power supply unit board	
	SPF0724853 4 Zone main control board	
	Certified with the following options with requirements from EN 54-2: 1997	
	7.8 Output to fire alarm devices(s)	
	7.11 Delays to outputs	
	10 Test condition	
CFP708-4/SYN	Eight Zone Red Conventional Control and Indicating Equipment	176b/09
	Incorporating the following units:	
	SPF0702480 Switch mode power supply unit board	
	SPF0724855 8 Zone main control board	
	Certified with the following options with requirements from EN 54-2: 1997	
	7.8 Output to fire alarm devices(s)	
	7.11 Delays to outputs	
	10 Test condition	

A copy of the certificate, confirming the full scope of approval including notes relating to the superscript references in the above table, may be viewed online by clicking on the product name in the associated entry on www.RedBookLive.com

Tanda (UK) Limited

Fourth Floor, 30-31 Furnival Street, London EC4A 1JQ, United Kingdom
Tel: +44 8451162945
E-mail: info@tandauk.com • Website: www.tandauk.com

Certificate No: 1330h-(cl-1) to EN54-2: 1997 + A1: 2006 & EN54-4: 1997 + A1: 2002 + A2: 2006

Control and indicating equipment

Certificated Products		**LPCB Ref. No.**
TX7004	1 to 4 loop Intelligent Addressable Control and Indicating Equipment	1330h/01
	Incorporating the following modules:	
	7010200004 TX7004 Mother Board	
	7020100022 TX7004 Main Board	
	7010700017 TX7004 Loop Board	
	7010400011 TX7004 Power Management Board	
	7010600019 TX7004 Communication Board	
	7010400012 TX7004 Power Wiring Board	
	PDF-150-27.5 Power Supply Unit	
	7021300007 TX7004 Key Board	
	7020800009 TX7004 Led Board	
	7010300010 TX7004 Regional Display Board	
	814400002 TX6940E Printer Module	
	Certified with the following options with requirements from EN54-2:	
	7.8 Output to fire alarm device(s)	
	7.10.1 Output to fire protection equipment - Type A	
	7.11 Delays to outputs	
	7.12.1 Dependencies on more than one alarm signal- Type A	
	7.12.2 Dependencies on more than one alarm signal -Type B	
	7.13 Alarm counter	
	9.5 Disablement of each address point	
	10 Test condition	
	Note:	
	The scope of the approval does not include the operation of the network functionality	
	The product approval does not constitute compliance with the fire detection and alarm system requirements of EN54-13.	

Tanda Development Pte Ltd

21 Bukit Batok Crescent, #15-75 Wcega Tower, Singapore 658065, Singapore
Tel: +86013223307015
E-mail: Wanyuemin@tandatech.com • Website: www.tnafirealarm.com

Certificate No: 1330h-(cl-4) to EN 54-2: 1997 + A1: 2006 & EN 54-4: 1997 + A1: 2002 + A2: 2006

Control and indicating equipment

Certificated Products		**LPCB Ref. No.**
TX7004	1 to 4 loop Intelligent Addressable Control and Indicating Equipment	1330h/01
	Incorporating the following modules:	

Certificated Products		LPCB Ref. No.
	7010200004 TX7004 Mother Board 7020100022 TX7004 Main Board 7010700017 TX7004 Loop Board 7010400011 TX7004 Power Management Board 7010600019 TX7004 Communication Board 7010400012 TX7004 Power Wiring Board PDF-150-27.5 Power Supply Unit 7021300007 TX7004 Key Board 7020800009 TX7004 Led Board 7010300010 TX7004 Regional Display Board 814400002 TX6940E Printer Module *Certified with the following options with requirements from EN54-2:* *7.8 Output to fire alarm device(s)* *7.10.1 Output to fire protection equipment - Type A* *7.11 Delays to outputs* *7.12.1 Dependencies on more than one alarm signal- Type A* *7.12.2 Dependencies on more than one alarm signal -Type B* *7.13 Alarm counter* *9.5 Disablement of each address point* *10 Test condition* *Note:* *1. The scope of the approval does not include the operation of the network functionality* *2. The product approval does not constitute compliance with the fire detection and alarm system requirements of EN54-13.*	

A copy of the certificate, confirming the full scope of approval including notes relating to the superscript references in the above table, may be viewed online by clicking on the product name in the associated entry on www.RedBookLive.com

---

Teletek Electronics JSC

14A Srebarna Street, Sofia 1407, Bulgaria
Tel: +359 2 9694 700 • Fax: +359 2 9625 213
E-mail: info@teletek-electronics.bg • Website: www.teletek-electronics.com

Certificate No: 1139h to EN54-2: 1997 + A1: 2006 & EN54-4: 1997 + A1: 2002 + A2: 2006

Control and indicating equipment

Certificated Products		LPCB Ref. No.
IRIS	IRIS (1-4)L M - Intelligent Analogue Addressable Interactive Fire Alarm Control Panel, metal housing IRIS (1-4)L P - Intelligent Analogue Addressable Interactive Fire Alarm Control Panel, plastic housing *Incorporating the following modular units:* *uPC Board* — *Module IRIS uPC* *LCD Board* — *Module IRIS LCD* *LED Board and LED* — *Module IRIS Light Panel includes boards uPC, LCD and LED* *Outputs Board* — *Module IRIS Outputs* *Relay Board* — *Module IRIS 4 Relay* *PSU Board* — *IRIS Module Power supply* *Redundant Network Board* — *Module Redundant Network IRIS/SIMPO* *Loop TTE Board* — *IRIS Loop Expander TTE* *Certified with the following options with requirements from EN54-2:* *7.8 Output to fire alarm devices (option with requirements)*	1139h/01

Certificated Products		LPCB Ref. No.
	7.9 Control of fire alarm routing equipment (options with requirements) *7.9.1 Output to fire alarm routing equipment (option with requirements)* *7.10 Outputs to fire protection equipment (options with requirements)* *7.10.1 Output type A (option with requirement)* *7.11 Delays to outputs (option with requirements)* *7.12 Dependencies on more than one alarm signal (option with requirements)* *7.12.1 Type A dependency (option with requirement)* *8.3 Fault signals from points (option with requirements)* *9.5 Disablement of addressable point (option with requirements)* *10 Test condition (option with requirements)* *Notes:* *The scope of the approval does not include the operation of the network functionality* *The product approval does not constitute compliance with the fire detection and alarm system requirements of EN54-13.*	
IRIS-0	IRIS (0) Repeater M - Intelligent Analogue Addressable Interactive Fire Alarm Control Panel - Repeater, metal housing IRIS (0) Repeater P - Intelligent Analogue Addressable Interactive Fire Alarm Control Panel- Repeater, plastic housing Approved for use with the IRIS Intelligent Analogue Addressable Interactive Fire Alarm Control Panel *Incorporating the following modules:* *uPC Board* *Module IRIS uPC* *LCD Board* *Module IRIS LCD* *LED Board* *Module IRIS Light Panel includes boards uPC, LCD and LED* *PSU Board* *IRIS Module Power supply* *Redundant Network Board* *Module Redundant Network IRIS/SIMPO*	1139h/R01

A copy of the certificate, confirming the full scope of approval including notes relating to the superscript references in the above table, may be viewed online by clicking on the product name in the associated entry on www.RedBookLive.com

---

Tyco Fire & Security GmbH

Victor Von Bruns-Strasse 21, Neuhausen am Rheinfall 8212, Switzerland
Tel: +44 (0)1462 667700 • Fax: +44 (0)1462 667777
E-mail: deepika.sahni@jci.com • Website: www.tycosafetyproducts-europe.com

Certificate No: 681ad-(cl-1) to EN 54-4:1997 + A1:2002 + A2:2006

Control and indicating equipment

Certificated Products		LPCB Ref. No.
557.200.732	PSU A17 Addressable 17Ah Power Supply Unit *Notes:* *1) The unit is not intended to supply power to Fire Alarm Control Panels* *2) The maximum lead length for the fault output connection is 3m*	681ad/01
557.200.733	PSU A38 Addressable 38Ah Power Supply Unit *Notes:* *1) The unit is not intended to supply power to Fire Alarm Control Panels* *2) The maximum lead length for the fault output connection is 3m*	681ad/02

A copy of the certificate, confirming the full scope of approval including notes relating to the superscript references in the above table, may be viewed online by clicking on the product name in the associated entry on www.RedBookLive.com

Certificate No: 681ad-(cl-2) to EN 54-4:1997 + A1:2002 + A2:2006

Control and indicating equipment

Certificated Products		LPCB Ref. No.
557.200.530	PSU A17 Addressable 17Ah Power Supply Unit (557.200.530.R Red Cabinet) *Notes:*	681ad/01

Certificated Products		LPCB Ref. No.
	1) The unit is not intended to supply power to Fire Alarm Control Panels *2) The maximum lead length for the fault output connection is 3m*	
557.200.531	PSU A38 Addressable 38Ah Power Supply Unit (557.200.531.R Red Cabinet) *Notes:* *1) The unit is not intended to supply power to Fire Alarm Control Panels* *2) The maximum lead length for the fault output connection is 3m*	681ad/02

A copy of the certificate, confirming the full scope of approval including notes relating to the superscript references in the above table, may be viewed online by clicking on the product name in the associated entry on www.RedBookLive.com

Certificate No: 681ae-(cl-1) to EN 54-2:1997 + A1:2006 EN 54-4:1997 + A1:2002 + A2:2006

Control and indicating equipment

Certificated Products		LPCB Ref. No.
508.031.004.xx	MZXC 2 Zone, Twin Wire Conventional Control and Indicating Equipment Incorporating as modular units: C1694 - 2605508, 2 Zone Twin Wire Motherboard BAQ-35T24 Power Supply Certified with the following options from EN 54-2: 7.8 Output to fire alarm devices 7.9.1 Output to fire alarm routing equipment 7.12.1 Dependencies on more than one alarm signal - Type A 7.13 Alarm counter 10 Test condition *Note: xx indicates the language option* *EG = English facia overlay*	681ae/01
508.031.005.xx	MZXC 4 Zone, Twin Wire Conventional Control and Indicating Equipment Incorporating as modular units: C1694 - 2605509, 4 Zone Twin Wire Motherboard BAQ-35T24 Power Supply Certified with the following options from EN 54-2: 7.8 Output to fire alarm devices 7.9.1 Output to fire alarm routing equipment 7.12.1 Dependencies on more than one alarm signal - Type A 7.13 Alarm counter 10 Test condition *Note: xx indicates the language option* *EG = English facia overlay*	681ae/02
508.031.006.xx	MZXC 8 Zone Twin Wire Conventional Control and Indicating Equipment Incorporating as modular units: C1694 - 2605510, 8 Zone Twin Wire Motherboard BAQ-35T24 Power Supply Certified with the following options from EN 54-2: 7.8 Output to fire alarm devices 7.9.1 Output to fire alarm routing equipment 7.12.1 Dependencies on more than one alarm signal - Type A 7.13 Alarm counter 10 Test condition *Note: xx indicates the language option* *EG = English facia overlay*	681ae/03

A copy of the certificate, confirming the full scope of approval including notes relating to the superscript references in the above table, may be viewed online by clicking on the product name in the associated entry on www.RedBookLive.com

Certificate No: 681ag-(cl-3) to EN 54-2:1997 + A1:2006
EN 54-4:1997 + A1:2002 + A2:2006

Control and indicating equipment

Certificated Products		LPCB Ref. No.
Pro16xD	4-16 Loops Analogue Addressable Control & Indicating Equipment	681ag/06

Certificated Products **LPCB Ref. No.**

Incorporating the following units:
ProR1DS Profile Reduced User Interface
PFI800 PROFILE Panel Field Interface Board
PSC400 PROFILE Backplane 4 Slots
PPM800 Profile Panel Mounting Frame
PBB801 PROFILE 5A Power Unit [With BAQ140T24 PSU]

Incorporating the following optional modules:
PNI800 PROFILE Network Interface Slot Card
PCS800 PROFILE Ethernet Switch
POS800-S Fibre Optic Switch Single Mode
POS800-M Fibre Optic Switch Multi-Mode
FB800 Fuse board (15 way)
PZ4x PROFILE 40 Way Zonal Display
PZ8x PROFILE 80 Way Zonal Display
TUD800 Triggering board for transmission unit
PLX800 PROFILE Loop Expansion Slot Card
PCH800 PROFILE Charger Slot Card
SM3 Serial Interface to FAT
SFK800 PROFILE Swiss Fire Brigade Interface
IOB800 Input/Output Expansion Board
FOM800 Fibre Optic Module
FBI800 Fire Brigade Interface

Incorporating the following mechanical parts:
PXB800 PROFILE Ancillary Expansion Box
PxD Profile Extension Box for Pro32xD

Pro16xBB - Approved for use with the Pro16xD Control & Indicating Equipment
Incorporating the following units:
PFI800 PROFILE Panel Field Interface Board
PSC400 PROFILE Backplane 4 Slots
PPM800 Profile Panel Mounting Frame
PBB801 PROFILE 5A Power Unit [With BAQ140T24 PSU]

Incorporating the following optional modules:
PNI800 PROFILE Network Interface Slot Card
PCS800 PROFILE Ethernet Switch
POS800-S Fibre Optic Switch Single Mode
POS800-M Fibre Optic Switch Multi-Mode
FB800 Fuse board (15 way)
TUD800 Triggering board for transmission unit
PLX800 PROFILE Loop Expansion Slot Card
PCH800 PROFILE Charger Slot Card
SM3 Serial Interface to FAT
SFK800 PROFILE Swiss Fire Brigade Interface
IOB800 Input/Output Expansion Board
FOM800 Fibre Optic Module
FBI800 Fire Brigade Interface

Incorporating the following mechanical parts:
PXB800 PROFILE Ancillary Expansion Box
PxD Profile Extension Box for Pro32xD

Certified with the following options with requirements from EN54-2:
7.8 Output to fire alarm devices
7.9.1 Output to fire alarm routing equipment
7.9.2 Alarm confirmation input from fire alarm routing equipment
7.10.1 Outputs to fire controls for fire protection equipment - Output type A
7.10.2 Outputs to fire controls for fire protection equipment - Output type B
7.10.3 Outputs to fire controls for fire protection equipment - Output type C
7.10.4 Fault monitoring of fire controls for fire protection equipment
7.11 Delays to outputs
7.12.1 Dependencies on more than one alarm signal - Type A
7.12.2 Dependencies on more than one alarm signal - Type B
7.12.3 Dependencies on more than one alarm signal - Type C
7.13 Alarm counter
8.3 Fault signals from points
8.9 Output to fault warning routing equipment
9.5 Disablement of addressable points
10 Test condition
11 Output to standardised input/output interface

Certificated Products		LPCB Ref. No.
	Notes: *1. Scope of approval does not include the operation of the network functionality* *2. This product approval does not constitute compliance with the fire detection and alarm systems requirements of EN54-13*	
Pro32xD	4-32 Loops Analogue Addressable Control & Indicating Equipment Incorporating the following units: ProR1DS Profile Reduced User Interface PFI800 PROFILE Panel Field Interface Board PSC800 PROFILE Backplane 6 Slots PPM800 Profile Panel Mounting Frame PBB801 PROFILE 5A Power Unit [With BAQ140T24 PSU] Incorporating the following optional modules: PNI800 PROFILE Network Interface Slot Card PCS800 PROFILE Ethernet Switch POS800-S Fibre Optic Switch Single Mode POS800-M Fibre Optic Switch Multi-Mode FB800 Fuse board (15 way) PZ4x PROFILE 40 Way Zonal Display PZ8x PROFILE 80 Way Zonal Display TUD800 Triggering board for transmission unit PLX800 PROFILE Loop Expansion Slot Card PCH800 PROFILE Charger Slot Card SM3 Serial Interface to FAT SFK800 PROFILE Swiss Fire Brigade Interface IOB800 Input/Output Expansion Board FOM800 Fibre Optic Module FBI800 Fire Brigade Interface Incorporating the following mechanical parts: PXB800 PROFILE Ancillary Expansion Box PxD Profile Extension Box for Pro32xD Pro32xBB - Approved for use with the Pro32xD Control & Indicating Equipment Incorporating the following units: PFI800 PROFILE Panel Field Interface Board PSC800 PROFILE Backplane 6 Slots PPM800 Profile Panel Mounting Frame PBB801 PROFILE 5A Power Unit [With BAQ140T24 PSU] Incorporating the following optional modules: PNI800 PROFILE Network Interface Slot Card PCS800 PROFILE Ethernet Switch POS800-S Fibre Optic Switch Single Mode POS800-M Fibre Optic Switch Multi-Mode FB800 Fuse board (15 way) PZ4x PROFILE 40 Way Zonal Display PZ8x PROFILE 80 Way Zonal Display TUD800 Triggering board for transmission unit PLX800 PROFILE Loop Expansion Slot Card PCH800 PROFILE Charger Slot Card SM3 Serial Interface to FAT SFK800 PROFILE Swiss Fire Brigade Interface IOB800 Input/Output Expansion Board FOM800 Fibre Optic Module FBI800 Fire Brigade Interface Incorporating the following mechanical parts: PXB800 PROFILE Ancillary Expansion Box PxD Profile Extension Box for Pro32xD Certified with the following options with requirements from EN54-2: 7.8 Output to fire alarm devices 7.9.1 Output to fire alarm routing equipment 7.9.2 Alarm confirmation input from fire alarm routing equipment 7.10.1 Outputs to fire controls for fire protection equipment - Output type A 7.10.2 Outputs to fire controls for fire protection equipment - Output type B 7.10.3 Outputs to fire controls for fire protection equipment - Output type C 7.10.4 Fault monitoring of fire controls for fire protection equipment 7.11 Delays to outputs 7.12.1 Dependencies on more than one alarm signal - Type A	681ag/07

Certificated Products		LPCB Ref. No.
	7.12.2 Dependencies on more than one alarm signal - Type B 7.12.3 Dependencies on more than one alarm signal - Type C 7.13 Alarm counter 8.3 Fault signals from points 8.9 Output to fault warning routing equipment 9.5 Disablement of addressable points 10 Test condition 11 Output to standardised input/output interface *Notes:* *1. Scope of approval does not include the operation of the network functionality* *2. This product approval does not constitute compliance with the fire detection and alarm systems requirements of EN54-13*	
PR8AS	Repeater Panel Approved for use with the Pro16xD and Pro32xD Control & Indicating Equipment Incorporating the following modules: PR1DS Profile User Interface PZ8x Profile 80 Way Zone Display PMM800 Profile Supply Module BAW75T24 Power Supply Unit	681ag/R04
PR1AS-CH	Repeater Panel Approved for use with the Pro16xD and Pro32xD Control & Indicating Equipment Incorporating the following modules: PR1DS Profile User Interface SFK800 Swiss Fire Brigade Interface PMM800 Profile Supply Module BAW75T24 Power Supply Unit	681ag/R05

A copy of the certificate, confirming the full scope of approval including notes relating to the superscript references in the above table, may be viewed online by clicking on the product name in the associated entry on www.RedBookLive.com

Certificate No: 681an-(cl-1) to EN 54-2:1997 + A1:2006 EN 54-4:1997 + A1:2002 + A2:2006

Control and indicating equipment

Certificated Products		LPCB Ref. No.
MX4000	2-8 loop Analogue Addressable Control and Indicating Equipment Notes: 1)The following product variants are approved - Finished goods No. 557.200.003, MX4000 1-4 loop CIE, shallow housing Finished goods No. 557.200.005, MX-BBX battery box, shallow housing Finished goods No. 557.200.004, MX4000 1-8 loop CIE, deep housing Finished goods No. 557.200.006, MX-DPBX battery box, deep housing (door access) Finished goods No. 557.200.016, MX-DPBX battery box, deep housing (plain cover access) Finished goods No. 557.200.009, MX4000 1-4 loop, flush housing Finished goods No. 557.200.019, MX-BBX-F battery box, flush housing Incorporating as modular units: OCM800 Operator Control Module ODM800 Operator Display Module CPU800 Main CPU module FIM802 Field Interface Module drives 1 or 2 loops PSU830 Power Supply Module and as optional modular units: XLM800 Expansion Loop Module drives 1 or 2 additional loops ANN840 40 + 40 LED Annunciator module ANN880 80 LED Annunciator module COM820 20 way Status Command Module MPM800 Multi-Purpose Interface Module IOB800 Input/Output Expansion Board FB800 Fuse Board Certified with the following options with requirements from EN 54 Part 2: 7.8 Output to fire alarm devices 7.9.1 Output to fire alarm routing equipment 7.9.2 Alarm confirmation input from fire alarm routing equipment	681an/01

Certificated Products		LPCB Ref. No.
	7.10.1 Outputs to fire protection equipment (Type A) 7.10.2 Outputs to fire protection equipment (Type B) 7.10.3 Outputs to fire protection equipment (Type C) 7.10.4 Fault monitoring of fire protection equipment 7.11 Delays to outputs 7.12.1 Dependencies on more than one alarm signal (Type A dependency) 7.12.2 Dependencies on more than one alarm signal (Type B dependency) 7.12.3 Dependencies on more than one alarm signal (Type C dependency) 7.13 Alarm counter 8.3 Fault signals from points 8.9 Output to fault warning routing equipment 9.5 Disablement of addressable points 10 Test condition 11 Standardized input/output interface	
MXR	Repeater panel is approved for use with the MX4000 Control and Indicating Notes: 1)The following product variants are approved - Finished goods No. 557.200.013, MXR-PSU repeater Finished goods No. 557.200.018, MXR-PSU-F repeater flush housing Finished goods No. 557.200.012, MXR repeater Finished goods No. 557.200.017, MXR-F repeater flush housing Incorporating as modular units: OCM800 Operator Control Module ODM800 Operator Display Module PSU830 Power Supply Module and as optional modular units: ANN840 40 + 40 LED Annunciator ANN880 80 LED Annunciator MPM800 Multi Purpose Interface Module IOB800 Input/Output Expansion Board FB800 Fuse Board	681an/R01

A copy of the certificate, confirming the full scope of approval including notes relating to the superscript references in the above table, may be viewed online by clicking on the product name in the associated entry on www.RedBookLive.com

Certificate No: 681bb-(cl-1) to EN 54-2:1997 + A1:2006 EN 54-4:1997 + A1:2002 + A2:2006

Control and indicating equipment

Certificated Products		LPCB Ref. No.
Pro215S Lite	1-2 Loop Analogue Addressable Control and Indicating Equipment, Shallow Housing Zettler Profile Lite (557.202.910) Zettler Profile Lite Red Housing (557.202.910.R) Incorporating the following modules: PFI801 Field Interface CUI Colour User Interface BAW75T24 2.5 A PSU Incorporating the following optional units: PNI800 Network Interface FBI800 Fire Brigade Interface FB800 Fuse Board Certified with the following options with requirements from EN54-2: 7.8 Output to fire alarm device(s) 7.9.1 Output to fire alarm routing equipment 7.9.2 Alarm confirmation input from fire alarm routing equipment 7.10.1 Output to fire protection equipment- Output type A 7.10.2 Output to fire protection equipment- Output type B 7.10.3 Output to fire protection equipment- Output type C 7.10.4 Fault monitoring of fire protection equipment 7.11 Delays to outputs 7.12.1 Dependencies on more than one alarm signal- Type A 7.12.2 Dependencies on more than one alarm signal -Type B 7.12.3 Dependencies on more than one alarm signal -Type C 7.13 Alarm counter	681bb/01

Certificated Products		LPCB Ref. No.
	8.3 Fault signals from points 8.9 Output to fault warning routing equipment 9.5 Disablement of each address point 10 Test condition 11 Output to standardised input/output interface *Notes:* *1. Scope of approval does not include the operation of the network functionality* *2. This product approval does not constitute compliance with the fire detection and alarm system requirements of EN54-13.*	
Pro415S Lite	2-4 Loop Analogue Addressable Control and Indicating Equipment, Shallow Housing Zettler Profile Lite (557.202.911), Zettler Profile Lite Red Housing (557.202.910.R) Incorporating the following modules: PFI800 Field Interface CUI Colour User Interface BAQ140T24 5 A PSU Incorporating the following optional units: PNI800 Panel Network Interface FBI800 Fire Brigade Interface FB800 Fuse Board Certified with the following options with requirements from EN54-2: 7.8 Output to fire alarm device(s) 7.9.1 Output to fire alarm routing equipment 7.9.2 Alarm confirmation input from fire alarm routing equipment 7.10. 1 Output to fire protection equipment- Output type A 7.10.2 Output to fire protection equipment- Output type B 7.10.3 Output to fire protection equipment- Output type C 7.10.4 Fault monitoring of fire protection equipment 7.11 Delays to outputs 7.12.1 Dependencies on more than one alarm signal- Type A 7.12.2 Dependencies on more than one alarm signal -Type B 7.12.3 Dependencies on more than one alarm signal -Type C 7.13 Alarm counter 8.3 Fault signals from points 8.9 Output to fault warning routing equipment 9.5 Disablement of each address point 10 Test condition 11 Output to standardised input/output interface *Notes:* *1. Scope of approval does not include the operation of the network functionality* *2. This product approval does not constitute compliance with the fire detection and alarm system requirements of EN54-13.*	681bb/02
Pro415D Lite	2-4 Loop Analogue Addressable Control and Indicating Equipment, Deep Housing Zettler Profile Lite (557.202.916) Incorporating the following modules: PFI800 Field Interface CUI Colour User Interface BAQ140T24 5 A PSU Incorporating the following optional units: PNI800 Panel Network Interface FBI800 Fire Brigade Interface FB800 Fuse Board Certified with the following options with requirements from EN54-2: 7.8 Output to fire alarm device(s) 7.9.1 Output to fire alarm routing equipment 7.9.2 Alarm confirmation input from fire alarm routing equipment 7.10. 1 Output to fire protection equipment- Output type A 7.10.2 Output to fire protection equipment- Output type B 7.10.3 Output to fire protection equipment- Output type C 7.10.4 Fault monitoring of fire protection equipment 7.11 Delays to outputs 7.12.1 Dependencies on more than one alarm signal- Type A 7.12.2 Dependencies on more than one alarm signal -Type B 7.12.3 Dependencies on more than one alarm signal -Type C 7.13 Alarm counter 8.3 Fault signals from points 8.9 Output to fault warning routing equipment	681bb/03

Certificated Products		LPCB Ref. No.
	9.5 Disablement of each address point 10 Test condition 11 Output to standardised input/output interface *Notes:* *1. Scope of approval does not include the operation of the network functionality* *2. This product approval does not constitute compliance with the fire detection and alarm system requirements of EN54-13.*	
Pro215S-CH Lite Swiss	1-2 Loop Analogue Addressable Control and Indicating Equipment, Shallow Housing Zettler Profile Lite (557.202.912) Incorporating the following modules: PFI801 Field Interface CUI Colour User Interface SFK800 Swiss Interface BAW75T24 2.5 A PSU Incorporating the following optional units: PNI800 Panel Network Interface FBI800 Fire Brigade Interface FB800 Fuse Board Certified with the following options with requirements from EN54-2: 7.8 Output to fire alarm device(s) 7.9.1 Output to fire alarm routing equipment 7.9.2 Alarm confirmation input from fire alarm routing equipment 7.10. 1 Output to fire protection equipment- Output type A 7.10.2 Output to fire protection equipment- Output type B 7.10.3 Output to fire protection equipment- Output type C 7.10.4 Fault monitoring of fire protection equipment 7.11 Delays to outputs 7.12.1 Dependencies on more than one alarm signal- Type A 7.12.2 Dependencies on more than one alarm signal -Type B 7.12.3 Dependencies on more than one alarm signal -Type C 7.13 Alarm counter 8.3 Fault signals from points 8.9 Output to fault warning routing equipment 9.5 Disablement of each address point 10 Test condition 11 Output to standardised input/output interface *Notes:* *1. Scope of approval does not include the operation of the network functionality* *2. This product approval does not constitute compliance with the fire detection and alarm system requirements of EN54-13.*	681bb/04
Pro415S-CH Lite Swiss	2-4 Loop Analogue Addressable Control and Indicating Equipment, Shallow Housing Zettler Profile Lite Swiss (557.202.913) Incorporating the following modules: PFI800 Field Interface CUI Colour User Interface SFK800 Swiss Interface BAQ140T24 5 A PSU Incorporating the following optional units: PNI800 Panel Network Interface FBI800 Fire Brigade Interface FB800 Fuse Board Certified with the following options with requirements from EN54-2: 7.8 Output to fire alarm device(s) 7.9.1 Output to fire alarm routing equipment 7.9.2 Alarm confirmation input from fire alarm routing equipment 7.10. 1 Output to fire protection equipment- Output type A 7.10.2 Output to fire protection equipment- Output type B 7.10.3 Output to fire protection equipment- Output type C 7.10.4 Fault monitoring of fire protection equipment 7.11 Delays to outputs 7.12.1 Dependencies on more than one alarm signal- Type A 7.12.2 Dependencies on more than one alarm signal -Type B 7.12.3 Dependencies on more than one alarm signal -Type C 7.13 Alarm counter 8.3 Fault signals from points 8.9 Output to fault warning routing equipment 9.5 Disablement of each address point	681bb/05

Certificated Products		LPCB Ref. No.
	10 Test condition 11 Output to standardised input/output interface *Notes:* *1. Scope of approval does not include the operation of the network functionality* *2. This product approval does not constitute compliance with the fire detection and alarm system requirements of EN54-13.*	
P32AR LT	32 Zone AC Repeater, Zettler (557.202.914) Incorporating the following modules: CUI-R Repeater Colour User Interface PMM800 Power Monitor Module BAW75T24 Power Supply Unit, 2.5 A *Note: Approved for use with the Pro215S Lite, Pro415S Lite, Pro415D Lite, P32AR LT, P32DR LT, P32AR-CH LT and P32DR-CH LT*	681bb/R01
P32DR LT	32 Zone DC Repeater, Zettler (557.202.915) Incorporating the following modules: CUI-R Repeater Colour User Interface *Note: Approved for use with the Pro215S Lite, Pro415S Lite, Pro415D Lite, P32AR LT, P32DR LT, P32AR-CH LT and P32DR-CH LT*	681bb/R02
P32AR-CH LT	32 Zone AC Repeater, Zettler Swiss (557.202.922) Incorporating the following modules: CUI-R Repeater Colour User Interface PMM800 Power Monitor Module SFK800 Swiss Interface BAW75T24 Power Supply Unit, 2.5 *Note: Approved for use with the Pro215S Lite Swiss and Pro415S Lite Swiss*	681bb/R03
P32DR-CH LT	32 Zone DC Repeater, Zettler Swiss (557.202.923) Incorporating the following modules: CUI-R Repeater Colour User Interface SFK800 Swiss Interface *Note: Approved for use with the Pro215S Lite Swiss and Pro415S Lite Swiss*	681bb/R04

A copy of the certificate, confirming the full scope of approval including notes relating to the superscript references in the above table, may be viewed online by clicking on the product name in the associated entry on www.RedBookLive.com

Certificate No: 681bb-(cl-2) to EN 54-2:1997 + A1:2006 EN 54-4:1997 + A1:2002 + A2:2006

Control and indicating equipment

Certificated Products		LPCB Ref. No.
FC602S	1-2 Loop Analogue Addressable Control and Indicating Equipment, Shallow Housing FireClass (557.200.650) Incorporating the following modules: PFI801-FC Field Interface CUI Colour User Interface BAW75T24 2.5 A PSU Incorporating the following optional modules: PNI800 Panel Network Interface FB800 Fuse Board Certified with the following options with requirements from EN54-2: 7.8 Output to fire alarm device(s) 7.9.1 Output to fire alarm routing equipment 7.9.2 Alarm confirmation input from fire alarm routing equipment 7.10.1 Output to fire protection equipment- Output type A 7.10.2 Output to fire protection equipment- Output type B 7.10.3 Output to fire protection equipment- Output type C 7.10.4 Fault monitoring of fire protection equipment 7.11 Delays to outputs 7.12.1 Dependencies on more than one alarm signal- Type A 7.12.2 Dependencies on more than one alarm signal -Type B 7.12.3 Dependencies on more than one alarm signal -Type C 7.13 Alarm counter 8.3 Fault signals from points 8.9 Output to fault warning routing equipment 9.5 Disablement of each address point	681bb/01

Certificated Products		LPCB Ref. No.
	10 Test condition 11 Output to standardised input/output interface *Notes:* *1. Scope of approval does not include the operation of the network functionality* *2. This product approval does not constitute compliance with the fire detection and alarm system requirements of EN54-13.*	
FC604S	2-4 Loop Analogue Addressable Control and Indicating Equipment, Shallow Housing FireClass (557.200.651) Incorporating the following modules: PFI801-FC Field Interface CUI Colour User Interface BAQ140T24 5 A PSU Incorporating the following optional modules: PNI800 Profile Network Interface FB800 Fuse Board Certified with the following options with requirements from EN54-2: 7.8 Output to fire alarm device(s) 7.9.1 Output to fire alarm routing equipment 7.9.2 Alarm confirmation input from fire alarm routing equipment 7.10.1 Output to fire protection equipment- Output type A 7.10.2 Output to fire protection equipment- Output type B 7.10.3 Output to fire protection equipment- Output type C 7.10.4 Fault monitoring of fire protection equipment 7.11 Delays to outputs 7.12.1 Dependencies on more than one alarm signal- Type A 7.12.2 Dependencies on more than one alarm signal -Type B 7.12.3 Dependencies on more than one alarm signal -Type C 7.13 Alarm counter 8.3 Fault signals from points 8.9 Output to fault warning routing equipment 9.5 Disablement of each address point 10 Test condition 11 Output to standardised input/output interface *Notes:* *1. Scope of approval does not include the operation of the network functionality* *2. This product approval does not constitute compliance with the fire detection and alarm system requirements of EN54-13.*	681bb/02
FC602S Lite Scandinavian	1-2 Loop Analogue Addressable Control and Indicating Equipment, Shallow Housing FireClass Scandinavian (557.200.652) Incorporating the following modules: PFI801-FC Field Interface CUI Colour User Interface BAW75T24 2.5 A PSU Incorporating the following optional units: PNI800 Panel Network Interface FB800 Fuse Board Certified with the following options with requirements from EN54-2: 7.8 Output to fire alarm device(s) 7.9.1 Output to fire alarm routing equipment 7.9.2 Alarm confirmation input from fire alarm routing equipment 7.10.1 Output to fire protection equipment- Output type A 7.10.2 Output to fire protection equipment- Output type B 7.10.3 Output to fire protection equipment- Output type C 7.10.4 Fault monitoring of fire protection equipment 7.11 Delays to outputs 7.12.1 Dependencies on more than one alarm signal- Type A 7.12.2 Dependencies on more than one alarm signal -Type B 7.12.3 Dependencies on more than one alarm signal -Type C 7.13 Alarm counter 8.3 Fault signals from points 8.9 Output to fault warning routing equipment 9.5 Disablement of each address point 10 Test condition 11 Output to standardised input/output interface *Notes:* *1. Scope of approval does not include the operation of the network functionality* *2. This product approval does not constitute compliance with the fire detection and alarm system requirements of EN54-13.*	681bb/06

Certificated Products		LPCB Ref. No.
FC604S Lite Scandinavian	2-4 Loop Analogue Addressable Control and Indicating Equipment, Shallow Housing FireClass Scandinavian (557.200.653) Incorporating the following Modules: PFI800-FC Field Interface CUI Colour User Interface BAQ140T24 5 A PSU Incorporating the following optional units: PNI800 Panel Network Interface FB800 Fuse Board Certified with the following options with requirements from EN54-2: 7.8 Output to fire alarm device(s) 7.9.1 Output to fire alarm routing equipment 7.9.2 Alarm confirmation input from fire alarm routing equipment 7.10.1 Output to fire protection equipment- Output type A 7.10.2 Output to fire protection equipment- Output type B 7.10.3 Output to fire protection equipment- Output type C 7.10.4 Fault monitoring of fire protection equipment 7.11 Delays to outputs 7.12.1 Dependencies on more than one alarm signal- Type A 7.12.2 Dependencies on more than one alarm signal -Type B 7.12.3 Dependencies on more than one alarm signal -Type C 7.13 Alarm counter 8.3 Fault signals from points 8.9 Output to fault warning routing equipment 9.5 Disablement of each address point 10 Test condition 11 Output to standardised input/output interface *Notes:* *1. Scope of approval does not include the operation of the network functionality* *2. This product approval does not constitute compliance with the fire detection and alarm system requirements of EN54-13.*	681bb/07
FC32AR	32 Zone AC Repeater, FireClass 557.202.914 Incorporating the following modules: CUI-R Repeater Colour User Interface PMM800 Power Monitor Module BAW75T24 Power Supply Unit, 2.5 A *Note: Approved for use with the FC602S, FC604S, FC602S Lite Scandinavian and FC604S Lite Scandinavian*	681bb/R01
FC32DR	32 Zone DC Repeater, FireClass 557.202.915 Incorporating the following modules: CUI-R Repeater Colour User Interface *Note: Approved for use with the FC602S, FC604S, FC602S Lite Scandinavian and FC604S Lite Scandinavian*	681bb/R02
FC32AR-S	32 Zone AC Repeater, FireClass Scandinavian (557.200.656)Incorporating the following modules: CUI-R Repeater Colour User Interface PMM800 Power Monitor Module BAW75T24 Power Supply Unit, 2.5 A *Note: Approved for use with the FC602S Lite Scandinavian and FC604S Lite Scandinavian*	681bb/R05
FC32DR-S	32 Zone DC Repeater, FireClass Scandinavian (557.200.657) Incorporating the following modules: CUI-R Repeater Colour User Interface *Note: Approved for use with the FC602S Lite Scandinavian and FC604S Lite Scandinavian*	681bb/R06

A copy of the certificate, confirming the full scope of approval including notes relating to the superscript references in the above table, may be viewed online by clicking on the product name in the associated entry on www.RedBookLive.com

Certificate No: 681au-(cl-1) to EN 54-2:1997 + A1:2006 EN 54-4:1997 + A1:2002 + A2:2006

Control and indicating equipment

Certificated Products		LPCB Ref. No.
PR1AS-CH	Repeater Panel Approved for use with the Pro815D-CH Control & Indicating Equipment	681ag/R02

Certificated Products		LPCB Ref. No.
	Incorporating the following modules: PR1DS Profile User Interface SFK800 Swiss Fire Brigade Interface PMM800 Profile Supply Module BAW75T24 Power Supply Unit	
Pro215S	1-2 Loops Analogue Addressable Control & Indicating Equipment, Shallow Housing Incorporating the following units: PR1DS Profile User Interface PFI800 Profile Panel Field Interface Board PSU (BAQ140T24) Power Supply Unit Incorporating the following optional units: ProR1DS Profile Reduced User Interface PNI800 Profile Network Interface Slot Card FOM800 Fibre Optic Module PCS800 Profile Ethernet switch FB800 Fuse Board TUD800 Triggering Board for transmission unit IOB800 Input/ Output Expansion Board FBI800 Fire Brigade Interface PS-12170 2x17Ah Batteries Certified with the following options with requirements from EN54-2: 7.8 Output to fire alarm device(s) 7.9.1 Output to fire alarm routing equipment 7.9.2 Alarm confirmation input from fire alarm routing equipment 7.10.1 Output type A 7.10.2 Output type B 7.10.3 Output type C 7.10.4 Fault monitoring of fire protection equipment 7.11 Delays to outputs 7.12.1 Dependencies on more than one alarm signal - Type A 7.12.2 Dependencies on more than one alarm signal - Type B 7.12.3 Dependencies on more than one alarm signal - Type C 7.13 Alarm counter 8.3 Fault signals from points 8.9 Output to fault warning routing equipment 9.5 Disablement of each address point 10 Test condition 11 Output to standardised input/output interface *Notes:* *1. Scope of approval does not include the operation of the network functionality* *2. This product approval does not constitute compliance with the fire detection and alarm systems requirements of EN54-13*	681au/01
Pro 215D	1-2 Loops Analogue Addressable Control & Indicating Equipment, Deep Housing Incorporating the following units: PR1DS Profile User Interface PFI800 Profile Panel Field Interface Board PSC400 Profile Backplane 4 Slots PSU (BAQ140T24) Power Supply Unit Incorporating the following optional units: ProR1DS Profile Reduced User Interface PNI800 Profile Network Interface Slot Card FOM800 Fibre Optic Module PCS800 Profile Ethernet switch POS800-S Fibre Optic Switch Single Mode POS800-M Fibre Optic Switch Multi Mode FB800 Fuse Board CD5.241 DC-DC Converter (24V input and 24V output) TUD800 Triggering Board for transmission unit SM3 Serial Interface to FAT IOB800 Input/ Output Expansion Board FBI800 Fire Brigade Interface PS-12380 2x38Ah Batteries Certified with the following options with requirements from EN54-2: 7.8 Output to fire alarm device(s) 7.9.1 Output to fire alarm routing equipment 7.9.2 Alarm confirmation input from fire alarm routing equipment	681au/02

Certificated Products		LPCB Ref. No.
	7.10.1 Output type A 7.10.2 Output type B 7.10.3 Output type C 7.10.4 Fault monitoring of fire protection equipment 7.11 Delays to outputs 7.12.1 Dependencies on more than one alarm signal - Type A 7.12.2 Dependencies on more than one alarm signal - Type B 7.12.3 Dependencies on more than one alarm signal - Type C 7.13 Alarm counter 8.3 Fault signals from points 8.9 Output to fault warning routing equipment 9.5 Disablement of each address point 10 Test condition 11 Output to standardised input/output interface *Notes:* *1. Scope of approval does not include the operation of the network functionality* *2. This product approval does not constitute compliance with the fire detection and alarm systems requirements of EN54-13*	
Pro815D	4-8 Loops Analogue Addressable Control & Indicating Equipment Incorporating the following units: PR1DS Profile User Interface PFI800 Profile Panel Field Interface Board PSC400 Profile Backplane 4 Slots PSU (BAQ140T24) Power Supply Unit Incorporating the following optional units: ProR1DS Profile Reduced User Interface PNI800 Profile Network Interface Slot Card FOM800 Fibre Optic Module PLX800 Profile Loop Expansion Slot Card PCS800 Profile Ethernet switch POS800-S Fibre Optic Switch Single Mode POS800-M Fibre Optic Switch Multi Mode FB800 Fuse Board CD5.241 DC-DC Converter (24V input and 24V output) TUD800 Triggering Board for transmission unit SM3 Serial Interface to FAT IOB800 Input/ Output Expansion Board FBI800 Fire Brigade Interface PS-12380 2x38Ah Batteries Certified with the following options with requirements from EN54-2: 7.8 Output to fire alarm device(s) 7.9.1 Output to fire alarm routing equipment 7.9.2 Alarm confirmation input from fire alarm routing equipment 7.10.1 Output type A 7.10.2 Output type B 7.10.3 Output type C 7.10.4 Fault monitoring of fire protection equipment 7.11 Delays to outputs 7.12.1 Dependencies on more than one alarm signal - Type A 7.12.2 Dependencies on more than one alarm signal - Type B 7.12.3 Dependencies on more than one alarm signal - Type C 7.13 Alarm counter 8.3 Fault signals from points 8.9 Output to fault warning routing equipment 9.5 Disablement of each address point 10 Test condition 11 Output to standardised input/output interface *Notes:* *1. Scope of approval does not include the operation of the network functionality* *2. This product approval does not constitute compliance with the fire detection and alarm systems requirements of EN54-13*	681au/04
Pro885D	4-8 Loops Analogue Addressable Control & Indicating Equipment Incorporating the following units: PR1DS Profile User Interface PFI800 Profile Panel Field Interface Board PSC400 Profile Backplane 4 Slots PZ8x 80way Zonal Display PSU (BAQ140T24) Power Supply Unit	681au/05

Certificated Products		LPCB Ref. No.
	Incorporating the following optional units: ProR1DS Profile Reduced User Interface PNI800 Profile Network Interface Slot Card FOM800 Fibre Optic Module PLX800 Profile Loop Expansion Slot Card PCS800 Profile Ethernet switch POS800-S Fibre Optic Switch Single Mode POS800-M Fibre Optic Switch Multi Mode FB800 Fuse Board CD5.241 DC-DC Converter (24V input and 24V output) TUD800 Triggering Board for transmission unit SM3 Serial Interface to FAT IOB800 Input/ Output Expansion Board PZ4x 40way Zonal Display FBI800 Fire Brigade Interface PS-12380 2x38Ah Batteries Certified with the following options with requirements from EN54-2: 7.8 Output to fire alarm device(s) 7.9.1 Output to fire alarm routing equipment 7.9.2 Alarm confirmation input from fire alarm routing equipment 7.10.1 Output type A 7.10.2 Output type B 7.10.3 Output type C 7.10.4 Fault monitoring of fire protection equipment 7.11 Delays to outputs 7.12.1 Dependencies on more than one alarm signal - Type A 7.12.2 Dependencies on more than one alarm signal - Type B 7.12.3 Dependencies on more than one alarm signal - Type C 7.13 Alarm counter 8.3 Fault signals from points 8.9 Output to fault warning routing equipment 9.5 Disablement of each address point 10 Test condition 11 Output to standardised input/output interface *Notes:* *1. Scope of approval does not include the operation of the network functionality* *2. This product approval does not constitute compliance with the fire detection and alarm systems requirements of EN54-13*	
Pro815D-CH	4-8 Loops Analogue Addressable Control & Indicating Equipment	681au/06
	Incorporating the following units: PR1DS Profile User Interface PFI800 Profile Panel Field Interface Board PSC400 Profile Backplane 4 Slots SFK800 Swiss Fire Brigade Interface PSU (BAQ140T24) Power Supply Unit Incorporating the following optional units: ProR1DS Profile Reduced User Interface PNI800 Profile Network Interface Slot Card FOM800 Fibre Optic Module PLX800 Profile Loop Expansion Slot Card PCS800 Profile Ethernet switch POS800-S Fibre Optic Switch Single Mode POS800-M Fibre Optic Switch Multi Mode FB800 Fuse Board CD5.241 DC-DC Converter (24V input and 24V output) TUD800 Triggering Board for transmission unit SM3 Serial Interface to FAT IOB800 Input/ Output Expansion Board FBI800 Fire Brigade Interface PS-12260 2x26Ah Batteries Certified with the following options with requirements from EN54-2: 7.8 Output to fire alarm device(s) 7.9.1 Output to fire alarm routing equipment 7.9.2 Alarm confirmation input from fire alarm routing equipment 7.10.1 Output type A 7.10.2 Output type B 7.10.3 Output type C	

Certificated Products		LPCB Ref. No.
	7.10.4 Fault monitoring of fire protection equipment 7.11 Delays to outputs 7.12.1 Dependencies on more than one alarm signal - Type A 7.12.2 Dependencies on more than one alarm signal - Type B 7.12.3 Dependencies on more than one alarm signal - Type C 7.13 Alarm counter 8.3 Fault signals from points 8.9 Output to fault warning routing equipment 9.5 Disablement of each address point 10 Test condition 11 Output to standardised input/output interface *Notes:* *1. Scope of approval does not include the operation of the network functionality* *2. This product approval does not constitute compliance with the fire detection and alarm systems requirements of EN54-13*	
PR8AS	Repeater Panel Approved for use with the Pro215S, Pro215D, Pro815D, Pro885D Control & Indicating Equipment Incorporating the following modules: PR1DS Profile User Interface PZ8x Profile 80 Way Zone Display PMM800 Profile Supply Module BAW75T24 Power Supply Unit	681au/R01

A copy of the certificate, confirming the full scope of approval including notes relating to the superscript references in the above table, may be viewed online by clicking on the product name in the associated entry on www.RedBookLive.com

Certificate No: 681au-(cl-2) to EN 54-2:1997 + A1:2006 EN 54-4:1997 + A1:2002 + A2:2006

Control and indicating equipment

Certificated Products		LPCB Ref. No.
FC702S	1-2 Loops Analogue Addressable Control & Indicating Equipment, Shallow Housing Incorporating the following units: FC1DS Profile User Interface PFI800 Profile Panel Field Interface Board PSU (BAQ140T24) Power Supply Unit Incorporating the following optional units: ProR1DS Profile Reduced User Interface PNI800 Profile Network Interface Slot Card FOM800 Fibre Optic Module PCS800 Profile Ethernet switch FB800 Fuse Board TUD800 Triggering Board for transmission unit IOB800 Input/ Output Expansion Board FBI800 Fire Brigade Interface PS-12170 2x17Ah Batteries Certified with the following options with requirements from EN54-2: 7.8 Output to fire alarm device(s) 7.9.1 Output to fire alarm routing equipment 7.9.2 Alarm confirmation input from fire alarm routing equipment 7.10.1 Output type A 7.10.2 Output type B 7.10.3 Output type C 7.10.4 Fault monitoring of fire protection equipment 7.11 Delays to outputs 7.12.1 Dependencies on more than one alarm signal - Type A 7.12.2 Dependencies on more than one alarm signal - Type B 7.12.3 Dependencies on more than one alarm signal - Type C 7.13 Alarm counter 8.3 Fault signals from points 8.9 Output to fault warning routing equipment 9.5 Disablement of each address point 10 Test condition 11 Output to standardised input/output interface *Notes:*	681au/01

Certificated Products		LPCB Ref. No.
	1. Scope of approval does not include the operation of the network functionality *2. This product approval does not constitute compliance with the fire detection and alarm systems requirements of EN54-13*	
FC702D	1-2 Loops Analogue Addressable Control & Indicating Equipment, Deep Housing Incorporating the following units: FC1DS Profile User Interface PFI800 Profile Panel Field Interface Board PSC400 Profile Backplane 4 Slots PSU (BAQ140T24) Power Supply Unit Incorporating the following optional units: ProR1DS Profile Reduced User Interface PNI800 Profile Network Interface Slot Card FOM800 Fibre Optic Module PCS800 Profile Ethernet switch POS800-S Fibre Optic Switch Single Mode POS800-M Fibre Optic Switch Multi Mode FB800 Fuse Board CD5.241 DC-DC Converter (24V input and 24V output) TUD800 Triggering Board for transmission unit SM3 Serial Interface to FAT IOB800 Input/ Output Expansion Board FBI800 Fire Brigade Interface PS-12380 2x38Ah Batteries Certified with the following options with requirements from EN54-2: 7.8 Output to fire alarm device(s) 7.9.1 Output to fire alarm routing equipment 7.9.2 Alarm confirmation input from fire alarm routing equipment 7.10.1 Output type A 7.10.2 Output type B 7.10.3 Output type C 7.10.4 Fault monitoring of fire protection equipment 7.11 Delays to outputs 7.12.1 Dependencies on more than one alarm signal - Type A 7.12.2 Dependencies on more than one alarm signal - Type B 7.12.3 Dependencies on more than one alarm signal - Type C 7.13 Alarm counter 8.3 Fault signals from points 8.9 Output to fault warning routing equipment 9.5 Disablement of each address point 10 Test condition 11 Output to standardised input/output interface *Notes:* *1. Scope of approval does not include the operation of the network functionality* *2. This product approval does not constitute compliance with the fire detection and alarm systems requirements of EN54-13*	681au/02
FC718D	4-8 Loops Analogue Addressable Control & Indicating Equipment Incorporating the following units: FC1DS Profile User Interface PFI800 Profile Panel Field Interface Board PSC400 Profile Backplane 4 Slots PSU (BAQ140T24) Power Supply Unit Incorporating the following optional units: ProR1DS Profile Reduced User Interface PNI800 Profile Network Interface Slot Card FOM800 Fibre Optic Module PLX800 Profile Loop Expansion Slot Card PCS800 Profile Ethernet switch POS800-S Fibre Optic Switch Single Mode POS800-M Fibre Optic Switch Multi Mode FB800 Fuse Board CD5.241 DC-DC Converter (24V input and 24V output) TUD800 Triggering Board for transmission unit SM3 Serial Interface to FAT IOB800 Input/ Output Expansion Board FBI800 Fire Brigade Interface PS-12380 2x38Ah Batteries	681au/04

Certificated Products		LPCB Ref. No.
	Certified with the following options with requirements from EN54-2: 7.8 Output to fire alarm device(s) 7.9.1 Output to fire alarm routing equipment 7.9.2 Alarm confirmation input from fire alarm routing equipment 7.10.1 Output type A 7.10.2 Output type B 7.10.3 Output type C 7.10.4 Fault monitoring of fire protection equipment 7.11 Delays to outputs 7.12.1 Dependencies on more than one alarm signal - Type A 7.12.2 Dependencies on more than one alarm signal - Type B 7.12.3 Dependencies on more than one alarm signal - Type C 7.13 Alarm counter 8.3 Fault signals from points 8.9 Output to fault warning routing equipment 9.5 Disablement of each address point 10 Test condition 11 Output to standardised input/output interface *Notes:* *1. Scope of approval does not include the operation of the network functionality* *2. This product approval does not constitute compliance with the fire detection and alarm systems requirements of EN54-13*	
FC708D	4-8 Loops Analogue Addressable Control & Indicating Equipment Incorporating the following units: FC1DS Profile User Interface PFI800 Profile Panel Field Interface Board PSC400 Profile Backplane 4 Slots PZ8x 80way Zonal Display PSU (BAQ140T24) Power Supply Unit Incorporating the following optional units: ProR1DS Profile Reduced User Interface PNI800 Profile Network Interface Slot Card FOM800 Fibre Optic Module PLX800 Profile Loop Expansion Slot Card PCS800 Profile Ethernet switch POS800-S Fibre Optic Switch Single Mode POS800-M Fibre Optic Switch Multi Mode FB800 Fuse Board CD5.241 DC-DC Converter (24V input and 24V output) TUD800 Triggering Board for transmission unit SM3 Serial Interface to FAT IOB800 Input/ Output Expansion Board PZ4x 40way Zonal Display FBI800 Fire Brigade Interface PS-12380 2x38Ah Batteries Certified with the following options with requirements from EN54-2: 7.8 Output to fire alarm device(s) 7.9.1 Output to fire alarm routing equipment 7.9.2 Alarm confirmation input from fire alarm routing equipment 7.10.1 Output type A 7.10.2 Output type B 7.10.3 Output type C 7.10.4 Fault monitoring of fire protection equipment 7.11 Delays to outputs 7.12.1 Dependencies on more than one alarm signal - Type A 7.12.2 Dependencies on more than one alarm signal - Type B 7.12.3 Dependencies on more than one alarm signal - Type C 7.13 Alarm counter 8.3 Fault signals from points 8.9 Output to fault warning routing equipment 9.5 Disablement of each address point 10 Test condition 11 Output to standardised input/output interface *Notes:* *1. Scope of approval does not include the operation of the network functionality* *2. This product approval does not constitute compliance with the fire detection and alarm systems requirements of EN54-13*	681au/05
FC8AS	Repeater Panel Approved for use with the FC702S, FC702D, FC718D, FC708D Control & Indicating	681au/R01

Certificated Products		LPCB Ref. No.
	Equipment Incorporating the following modules: FC1DS Profile User Interface PZ8x Profile 80 Way Zone Display PMM800 Profile Supply Module BAW75T24 Power Supply Unit	

A copy of the certificate, confirming the full scope of approval including notes relating to the superscript references in the above table, may be viewed online by clicking on the product name in the associated entry on www.RedBookLive.com

---

V-GREAT GLOBAL CORPORATION

Second Floor, Capital City, Independence Avenue, P O Box 1008, Victoria, Mahe, Seychelles
Tel: 008613581542023
E-mail: vgreatech@hotmail.com

Certificate No: 1174e-(cl-1) to EN54-2: 1997 + A1: 2006 & EN54-4: 1997 + A1: 2002 + A2: 2006
Certificate No: 1174j-(cl-1) to EN54-2: 1997 + A1: 2006 & EN54-4: 1997 + A1: 2002 + A2: 2006

Control and indicating equipment

Certificated Products		LPCB Ref. No.
VG-6831/16	16 Zone Conventional Control and Indicating Equipment *Incorporating the following units:* *VSL2.908.004 16 Zone Control Board* *VSL2.908.007 16 Zone Display Board* *PD-100-24 AC/DC Power Supply Module* *VSL2.908.005 16 Zone Signal Output Board* *Certified with the following Options with requirements from EN 54-2:1997* *7.8 Output to fire alarm device(s)* *7.11 Delay to outputs* *10 Test condition* *Note:* *1. This approval does not constitute compliance with the fire detection and alarm systems requirements of EN 54-13.*	1174e/01
VG-6831/8	8 Zone Conventional Control and Indicating Equipment *Incorporating the following units:* *VSL2.908.042 8 Zone Control Board* *VSL2.908.043 8 Zone Display Board* *PD-100-24 AC/DC Power Supply Module* *Certified with the following Options with requirements from EN 54-2:1997* *7.8 Output to fire alarm device(s)* *7.11 Delay to outputs* *10 Test condition* *Note:* *1. This approval does not constitute compliance with the fire detection and alarm systems requirements of EN 54-13.*	1174e/02
VG-6831/4	4 Zone Conventional Control and Indicating Equipment *Incorporating the following units:* *VSL2.908.044 4 Zone Control Board* *VSL2.908.045 4 Zone Display Board* *PD-100-24 AC/DC Power Supply Module* *Certified with the following Options with requirements from EN 54-2:1997* *7.8 Output to fire alarm device(s)* *7.11 Delay to outputs* *10 Test condition* *Note:* *1. This approval does not constitute compliance with the fire detection and alarm systems requirements of EN 54-13.*	1174e/03
VG-6831/2	2 Zone Conventional Control and Indicating Equipment *Incorporating the following units:* *VSL2.908.046 2 Zone Control Board* *VSL2.908.047 2 Zone Display Board* *PD-100-24 AC/DC Power Supply Module*	1174e/04

Certificated Products		LPCB Ref. No.
	Certified with the following Options with requirements from EN 54-2:1997 *7.8 Output to fire alarm device(s)* *7.11 Delay to outputs* *10 Test condition* *Note:* *1. This approval does not constitute compliance with the fire detection and alarm systems requirements of EN 54-13.*	

A copy of the certificate, confirming the full scope of approval including notes relating to the superscript references in the above table, may be viewed online by clicking on the product name in the associated entry on www.RedBookLive.com

Certificate No: 1174j-(cl-1) to EN54-2: 1997 + A1: 2006 & EN54-4: 1997 + A1: 2002 + A2: 2006

Certificated Products		LPCB Ref. No.
VG-6847	4 Loop Analogue Addressable Control and Indicating Equipment Incorporating the following modules: VSL2.908.146 Main Board VSL2.908.149 Indication board VSL2.908.155 Terminal board VSL2.908.162 Control Board VSL2.908.153 Loop Card VSL2.908.152 I/O Board VSL2.908.169 Power Board VSL7-820-150 Zone Board VSL7-820-154 Network Card LRS-150-24 MEAN-WELL Power Supply module Certified with the following option with requirements for EN54-2: 7.8 Output to fire alarm devices 7.10.1 Outputs to fire protection equipment (Type A) 7.10.2 Outputs to fire protection equipment (Type B) 7.10.3 Outputs to fire protection equipment (Type C) 7.10.4 Fault monitoring of fire protection equipment 7.11 Delays to outputs 7.12.1 Dependencies on more than one alarm signal (Type A dependency) 7.12.2 Dependencies on more than one alarm signal (Type B dependency) 7.12.3 Dependencies on more than one alarm signal (Type C dependency) 7.13 Alarm Counter 9.5 Disablement of addressable point 10 Test condition *Notes:* *1. The scope of the approval does not include the operation of the network functionality* *2. This approval does not constitute compliance with the fire detection and alarm systems requirements of EN54-13.*	1174j/01

A copy of the certificate, confirming the full scope of approval including notes relating to the superscript references in the above table, may be viewed online by clicking on the product name in the associated entry on www.RedBookLive.com

---

VIVA ELEKTRONIK SISTEMLER

Rasimpasa Mah. Muhendis Sari Ali, Sok. Birlik Han No:3/1, Kadikoy, ISTANBUL 34716, Turkey
Tel: 0090 549 797 70 80
E-mail: info@vivafire.com • Website: www.vivafire.com

Certificate No: 1426g-(cl-1) to EN54-2: 1997 + A1: 2006 & EN54-4: 1997 + A1: 2002 + A2: 2006

Control and indicating equipment

Certificated Products		LPCB Ref. No.
VI FCP-1L	Single Loop Analogue Addressable Fire Alarm Control Panel *Incorporating the following modules:* *SEC3002_IO IO Board* *SEC3002_B Monitoring Board (B Board)* *ZB-9100-A Main CPU Board (A Board)*	1426g/01

Certificated Products		LPCB Ref. No.
	PSE10_KZ Power Supply *SEC3002_QK Zone Indication Board* *SEC3002_KEY Key Board* *SEC3002_FL1 Loop SPU Board* *Incorporating the following optional modules:* *SEC3002_COM Communication Board* *Certified with the following options with requirements from EN54-2:* *7.8 Output to fire alarm devices* *7.10.1 Output type A* *7.11 Delays to outputs* *8.3 Fault signals from points* *9.5 Disablement of addressable point* *10 Test condition* *Notes:* *1. This product approval does not constitute compliance with the fire detection and alarm systems requirements of EN54-13.* *2. Scope of approval does not include the operation of the network functionality.*	

A copy of the certificate, confirming the full scope of approval including notes relating to the superscript references in the above table, may be viewed online by clicking on the product name in the associated entry on www.RedBookLive.com

Walter Kidde Portable Equipment Inc. (Trading as Edwards, A Carrier Company)

8985 Town Center Parkway, Bradenton, FL 34202, USA

Certificate No: 1255d-(cl-1) to EN 54-2:1997 + A1:2006
EN 54-4:1997 + A1:2002 + A2:2006
EN 54-16:2008 EN 54-2:1997 + A1:2006 EN 54-4:1997 + A1:2002 + A2:2006

Certificated Products		LPCB Ref. No.
EST3	Combined Control and Indication Equipment and Voice Alarm Control and Indicating Equipment System Incorporating as modular units: 3-CPU3-E Central Processor Unit 3-LDSM-E Annunciator strip support module 3-IDC 8/4-E Initiating Device Circuits/NACS 3-LCD-E Main Display LCD, user interface 3-LRMF-E Local Rail Module Filler EST3 24 LED Annunciators 3-24Y-E Annunciator Module, 24 Yellow LED 3-24R-E Annunciator Module, 24 Red LED 3-24G-E Annunciator Module, 24 Green LED 3-12RY-E Annunciator Module, 12 Red/Yellow LED EST3 18 LED Annunciators 3-6/3S1G2Y-E Annunciator Module, 18 Green/Yellow LED 3-6/3S1GYR-E Annunciator Module, 18 Green/Yellow/Red LED EST3 Control-Display Switch/LEDs 3-12SY-E Annunciator Module, 12 Switch Yellow LED 3-12SR-E Annunciator Module, 12 Switch Red LED 3-12SG-E Annunciator Module, 12 Switch Green LED 3-12/S1GY-E Annunciator Module, 12/24 Switch Green/Yellow LED 3-12/S1RY-E Annunciator Module, 12/24 Switch Red/Yellow LED Loop Controller Modules 3-SSDC2-E Signature (Single), driver controller module 3-SDDC2-E Signature (Dual), driver controller module 3-AADC1-E System Sensor driver controller module 3-SDC1-E Signature, driver controller module 3-EAC-E Analogue Driver Card 3-EASC2-E Edwards (Single) driver controller module 3-EADC2-E Edwards (Dual) driver controller module	1255d/01

Certificated Products **LPCB Ref. No.**

Power Supplies
3-PPS/M-230-E Primary Power Supply 230V
3-BPS/M-230-E Booster Power Supply 230V
3-BBC/M-230-E Booster, Battery Charger Power Supply 230V
3-PSMON-E Primary Power Supply Monitor
3-BPMON-E Booster Power Supply Monitor
3-BBCMON-E Booster, Battery Charger Monitor

Communication Cards
3-RS485A-E Data Communication, Class A
3-RS485B-E Data Communication, Class B
3-RS232-E Serial Communications Card (Printer, etc)
EFM-2 Data Communications Filter - 2 Circuits
EFM-10 Data Communications Filter - 10 Circuit
Fibre Modules
3-FIBMB2-E Fibre Optic Interface Module
SMXLO2-E Standard Output Single Mode Fibre Optic Transceiver
SMXHI2-E High Output Single Mode Fibre Optic Transceiver
MMXVR-E Standard Output Multimode Fibre Optic Transceiver

Enclosure Assemblies
3-CAB7B-E CAB7 Enclosure Backbox
3-CAB14B-E CAB14 Enclosure Backbox
3-CAB21B-E CAB21 Enclosure Backbox
3-CAB7D(R)-E CAB7 Inner/Outer Enclosure Doors - (R) indicates red
3-CAB14D(R)-E CAB14 Inner/Outer Enclosure Doors - (R) indicates red
3-CAB21D(R)-E CAB21 Inner/Outer Enclosure Doors - (R) indicates red

Remote Chassis Cabinets
3-RCC7R-E Remote Closet Cabinet, Single Chassis - Red
3-RCC14R-E Remote Closet Cabinet, Two Chassis - Red
3-RCC21R-E Remote Closet Cabinet, Three Chassis - Red
3-BTSEN-E Remote battery cabinet interlace, temperature sensing
BC-1 Battery Cabinet
3-TAMP Tamper Switch for 3-CAB7/14/21 Cabinets
3-TAMPRCC Tamper Switch for 3-RCC Cabinet

Audio & Telephone Common Controls - Chassis Assemblies
3-CHAS7-E Module - Chassis Assy for 7 LRMs
3-CHASS4-E Module - Chassis Assy for REMIC & 4 LRMs
3-ASU-E Audio Source Unit with a 3-Chassis
3-ASU/4-E Audio Source Unit with 4 LRM slots
3-ASUMX/100 100 minute extended audio memory card
3-ASU/FT-EN Audio Source Unit with Fire Fighter Telephone
3-FTCU-E Firefighter Telephone Control Unit
3-ZA20A-E 20 watt Zone Amplifier, Class A
3-ZA20B-E 20 watt Zone Amplifier, Class B
3-ZA40A-E 40 watt Zone Amplifier, Class A
3-ZA40B-E 40 watt Zone Amplifier, Class B
3-BATS Battery Shelf for Single 65AH Cell
3-CBLKIT1 Extended Rail Cable Kit
3-CPUDR CPU Door Kit

Certified with the following options with requirements from EN 54-2
7.8 Output to fire alarm devices
7.13 Alarm counter
8.3 Fault Signals from points
10 Test condition

Certified with the following options with requirements from EN 54-16
7.3 Audible warning
7.4 Delay(s) to entering the voice alarm condition
7.5 Phased evacuation
7.6.2 Manual silencing of the voice alarm condition
7.7.2 Manual reset of the voice alarm condition
7.9 Voice alarm condition output
8.4 Indication of faults related to voice alarm zones
9 Disablement condition
10 Voice alarm manual control
12 Emergency microphone(s)
13.14 Redundant power amplifiers
Notes:

Certificated Products		LPCB Ref. No.
	1. Scope of approval does not include the operation of the network functionality *2. This product approval does not constitute compliance with the fire detection and alarm system requirements of EN54-13.*	
EST3 Repeater	Incorporating as modular units: 3-ANNCPU3-E Remote Annunciator CPU with a 3-LCD 3-ANNSM-E Remote (repeater) Annunciator Support Module 3-LCDANN-E LCD Display and User Interface for Remote Annunciator Annunciator Back Boxes and Doors Assemblies 3-10ANN-E Remote Annunciator Back Box, 10 slots, with Door 3-10ANN/D-E Inner/Outer Door Assembly for 3-10ANN-E 10ANN/B Flush Mount Backbox for 3-10ANN-E 10ANN/B-S Surface Mount Backbox for 3-10ANN-E 3-6ANN-E Remote Annunciator Back Box, 6 slots, with Door 3-6ANN/D-E Inner/Outer Door Assembly for 3-6ANN-E 6ANN/B Flush Mount Backbox for 3-6ANN-E 6ANN/B-S Surface Mount Backbox for 3-6ANN-E 3-RLCM/D-E EST3 Remote Annunciator Door Assembly RLCM/B Remote Annunciator Flush Mount Backbox RLCM/B-S Remote Annunciator Surface Mount Backbox 3-FP Blank Filler Plate 3-XFP Blank Filler Plate for 3-CAB Cabinet Series 3-LKE Label Insert Kit- English 3-LKR Label Insert Kit- Russian 3-LKS Label Insert Kit- Spanish 3-LKF Label Insert Kit - French	1255d/R01

A copy of the certificate, confirming the full scope of approval including notes relating to the superscript references in the above table, may be viewed online by clicking on the product name in the associated entry on www.RedBookLive.com

---

Yingkou Tiancheng Fire Protection Equipment Co., Ltd

No. 11-2, Kechechang Xili,, Xishi District, Yingkou, Pilot Free Trade Zone, Liaoning 115004, China
Tel: +8618604079002
E-mail: wayne@tcfiretech.com • Website: www.tcfiretech.com

Certificate No: 1450g to EN 54-2:1997 + A1:2006 & EN 54-4:1997 + A1:2002 + A2:2006

Control and indicating equipment

Certificated Products		LPCB Ref. No.
JB-TB-TC5109	1-4 Loops Analogue Addressable Fire Alarm Control Panel Incorporating the following modules: TC5109-Main Main board TC5109-Loop Loop board TC5109-XZB Loop base board TC5109-Key Keypad board TC5109-ZX Zone and FPE indicator board TC5109-LCD Display board TC5109-SCR Indicator board TC5120-RS485 RS485 board TC5000-MAIN-CAN CAN board TC5109-LB1 Filter board 1 TC5109-LB2 Filter board 2 TC5109-POW Power Supply Equipment Certified with the following options with requirements: 7.8 Output to fire alarm device(s) 7.10.1 Output to automatic fire protection equipment Type A 7.10.2 Output to automatic fire protection equipment Type B 7.10.3 Output to automatic fire protection equipment Type C 8.3 Fault signals from point 9.5 Disablement of addressable points *Notes:* *1. This product approval does not constitute compliance with the fire detection and alarm systems requirements of EN54-13.* *2. Scope of approval does not include the operation of the network functionality.*	1450g/01

A copy of the certificate, confirming the full scope of approval including notes relating to the superscript references in the above table, may be viewed online by clicking on the product name in the associated entry on www.RedBookLive.com

Zeta Alarms Limited

Detection House, 72-78 Morfa Road, Swansea SA1 2EN, United Kingdom
Tel: +44 (0)1792 455175 • Fax: +44 (0)1792 455176
E-mail: ghassan@zetaalarmsystems.com • Website: www.zetaalarmsystems.com

Certificate No: 330w to EN 54-2:1997 +A1:2006
EN 54-4:1997 +A1:2002 +A2:2006

Certificated Products		**LPCB Ref. No.**
SMART 6	Smart Connect Multiloop 6 Port, 1-5 Loop Analogue Addressable Control and Indicating Equipment Incorporating the following modules: MMP-DISP Display PCB MMP-TERM Termination PCB PCB/PSU-UL-15 Power Supply Controller BLD-400-V030-NNU uPowerTek Power Supply Unit SCM-LCM Loop Card Module SCM-ACM Alarm Circuit Module Optional modules: SCM-NM Network ModuleSCM-ZMM Six Way Zone Monitor Module SCM-MIM Six Way Multi Input Module SCM-RM Three Way Relay Module Certified with the following options with requirements from EN 54-2: 1997: 7.8 Output to fire alarm device(s) 7.11 Delays to outputs 7.12.2 Dependencies on more than one alarm signal -Type B 7.12.3 Dependencies on more than one alarm signal -Type C 8.3 Fault signals from points 9.5 Disablement of each address point 10 Test condition *Notes:* *1. Scope of approval does not include the operation of the network functionality.* *2. This product approval does not constitute compliance with the fire detection and alarm system requirements of EN54-13.*	330w/01
SMART6/32	Smart Connect Multiloop 6 Port, 1-5 Loop Analogue Addressable Control and Indicating Equipment with 32 Zone LED Incorporating the following modules: MMP-DISP Display PCB MMP-TERM Termination PCB PPCB/MMP-ZLX32 Zone LED Expansion PCB PCB/PSU-UL-15 Power Supply Controller BLD-400-V030-NNU uPowerTek Power Supply Unit SCM-LCM Loop Card Module SCM-ACM Alarm Circuit Module Optional modules: SCM-NM Network Module SCM-ZMM Six Way Zone Monitor Module SCM-MIM Six Way Multi Input Module SCM-RM Three Way Relay Module Certified with the following options with requirements from EN 54-2: 1997: 7.8 Output to fire alarm device(s) 7.11 Delays to outputs 7.12.2 Dependencies on more than one alarm signal -Type B 7.12.3 Dependencies on more than one alarm signal -Type C 8.3 Fault signals from points 9.5 Disablement of each address point 10 Test condition *Notes:* *1. Scope of approval does not include the operation of the network functionality.* *2. This product approval does not constitute compliance with the fire detection and alarm system requirements of EN54-13.*	330w/02
SMART10/64	Smart Connect Multiloop 10 Port, 1-9 Loop Analogue Addressable Control and Indicating	330w/03

Certificated Products		LPCB Ref. No.
	Equipment (Black Enclosure) Incorporating the following modules: MMP-DISP Display PCB MMP-TERM Termination PCBPCB MMP-TERM/EXP Term Expander - 4 port PCB/MMP-ZLX64 Zone LED Expansion PCB PCB/PSU-UL-15 Power Supply ControllerBLD-400-V030-NNU uPowerTek Power Supply Unit SCM-LCM Loop Card Module SCM-ACM Alarm Circuit Module Optional modules: SCM-NM Network Module SCM-ZMM Six Way Zone Monitor Module SCM-MIM Six Way Multi Input Module SCM-RM Three Way Relay Module Certified with the following options with requirements from EN 54-2: 1997: 7.8 Output to fire alarm device(s) 7.11 Delays to outputs 7.12.2 Dependencies on more than one alarm signal -Type B 7.12.3 Dependencies on more than one alarm signal -Type C 8.3 Fault signals from points 9.5 Disablement of each address point 10 Test condition *Notes:* *1. Scope of approval does not include the operation of the network functionality* *2. This product approval does not constitute compliance with the fire detection and alarm system requirements of EN54-13.*	
SMART10/P/64	Smart Connect Multiloop 10 Port, 1-9 Loop Analogue Addressable Control and Indicating Equipment with Printer Incorporating the following modules: MMP-DISP Display PCB MMP-TERM Termination PCB PCB MMP-TERM/EXP Term Expander - 4 port PCB/MMP-ZLX64 Zone LED Expansion PCB (64 zones) PCB/PSU-UL-15 Power Supply Controller (Charger PCB) BLD-400-V030-NNU uPowerTek Power Supply Unit (Third Party) SCM-LCM Loop Card Module SCM-ACM Alarm Circuit Module Optional modules: SCM-NM Network ModuleSCM-ZMM Six Way Zone Monitor Module SCM-MIM Six Way Multi Input Module SCM-RM Three Way Relay Module SCM-PM Printer Module Certified with the following options with requirements from EN 54-2: 1997: 7.8 Output to fire alarm device(s) 7.11 Delays to outputs 7.12.2 Dependencies on more than one alarm signal -Type B 7.12.3 Dependencies on more than one alarm signal -Type C 8.3 Fault signals from points 9.5 Disablement of each address point 10 Test condition *Notes:* *1. Scope of approval does not include the operation of the network functionality.* *2. This product approval does not constitute compliance with the fire detection and alarm system requirements of EN54-13.*	330w/04
SMART26/64	Smart Connect Multiloop 26 port, 1-16 Loop Analogue Addressable and Conventional Control and Indicating Equipment Incorporating the following modules: MMP-DISP Display PCB MMP-TERM Termination PCB MMP-TERM/EXP 5 x Term Expander - 4 port PCB/MMP-ZLX64 Zone LED Expansion PCB PCB/PSU-UL-15 Power Supply Controller BLD-400-V030-NNU uPowerTek Power Supply Unit SCM-LCM Loop Card Module SCM-ACM Alarm Circuit Module	330w/05

Certificated Products		LPCB Ref. No.
	SCM-ZMM Six Way Zone Monitor Module Optional modules: SCM-NM Network Module SCM-MIM Six Way Multi Input Module SCM-RM Three Way Relay Module Certified with the following options with requirements from EN 54-2: 1997: 7.8 Output to fire alarm device(s) 7.11 Delays to outputs 7.12.2 Dependencies on more than one alarm signal -Type B 7.12.3 Dependencies on more than one alarm signal -Type C 8.3 Fault signals from points 9.5 Disablement of each address point 10 Test condition *Notes:* *1. Scope of approval does not include the operation of the network functionality.* *2. This product approval does not constitute compliance with the fire detection and alarm system requirements of EN54-13.*	
SMART26/P/64	Smart Connect Multiloop 26 port, 1-16 Loop Analogue Addressable and Conventional Control and Indicting Equipment with Printer Incorporating the following modules: MMP-DISP Display PCB MMP-TERM Termination PCB MMP-TERM/EXP 5 x Term Expander - 4 port PCB/MMP-ZLX64 Zone LED Expansion PCB PCB/PSU-UL-15 Power Supply Controller BLD-400-V030-NNU uPowerTek Power Supply Unit SCM-LCM Loop Card Module SCM-ACM Alarm Circuit Module SCM-ZMM Six Way Zone Monitor Module Optional modules: SCM-NM Network Module SCM-MIM Six Way Multi Input Module SCM-RM Three Way Relay Module SCM-PM Printer Module Certified with the following options with requirements from EN 54-2: 1997: 7.8 Output to fire alarm device(s) 7.11 Delays to outputs 7.12.2 Dependencies on more than one alarm signal -Type B 7.12.3 Dependencies on more than one alarm signal -Type C 8.3 Fault signals from points 9.5 Disablement of each address point 10 Test condition *Notes:* *1. Scope of approval does not include the operation of the network functionality.* *2. This product approval does not constitute compliance with the fire detection and alarm system requirements of EN54-13.*	330w/06
SMART/REP	Smart Connect Multiloop LCD repeater Incorporating the following modules: MMP-DISP Display PCB MMP-REP_COM Repeater communication PCB *Note:* *1. Compatible with panels SMART6, SMART6/32, SMART10/64, SMART10/P/64, SMART26/64 & SMART26/P/64.*	330w/R01

A copy of the certificate, confirming the full scope of approval including notes relating to the superscript references in the above table, may be viewed online by clicking on the product name in the associated entry on www.RedBookLive.com

Zhongshan Guta Fire Equipment Technology Co., Ltd

4/F 10# Xingye Road,, Huojo District, Zhongshan City, Guangdong 528400, China
Tel: 8613828765759
E-mail: strongwang@asenware.com • Website: www.guta-fire.com

Certificate No: 1395c to EN 54-2:1997 + A1:2006 and EN 54-4:1997 + A1:2002 + A2:2006

Control and indicating equipment

Certificated Products		LPCB Ref. No.
AW-CFP2166-4	4 Zone Conventional Control and Indicating EquipmentIncorporating the following units: Asenware Main Board Main Board Asenware Interface Board Interface Board Asenware PSE Power and Charger Board Asenware Zonal Board 1 x 4 Zone Board Asenware EMI EMI Board Certified with the following options with requirements from EN54-2: 1997 + A1: 2006: 7.8 Output to fire alarm devices (option with requirements) 7.9.1 Output to fire alarm routing equipment (option with requirements) 7.10.1 Output type A (option with requirement) 7.10.2 Output type B (option with requirement) 8.9 Output to fault warning routing equipment (option with requirements) *Note:* *1. This product approval does not constitute compliance with the fire detection and alarm systems requirements of EN 54-13.*	1395c/01
AW-CFP2166-8	8 Zone Conventional Control and Indicating EquipmentIncorporating the following units: Asenware Main Board Main Board Asenware Interface Board Interface Board Asenware PSE Power and Charger Board Asenware Zonal Board 2 x 4 Zone Boards Asenware EMI EMI Board Certified with the following options with requirements from EN54-2: 1997 + A1: 2006: 7.8 Output to fire alarm devices (option with requirements) 7.9.1 Output to fire alarm routing equipment (option with requirements) 7.10.1 Output type A (option with requirement) 7.10.2 Output type B (option with requirement) 8.9 Output to fault warning routing equipment (option with requirements) *Note:* *1. This product approval does not constitute compliance with the fire detection and alarm systems requirements of EN 54-13.*	1395c/02
AW-CFP2166-12	12 Zone Conventional Control and Indicating Equipment Incorporating the following units: Asenware Main Board Main Board Asenware Interface Board Interface Board Asenware PSE Power and Charger Board Asenware Zonal Boards 3 x 4 Zone Boards Asenware EMI EMI Board Certified with the following options with requirements from EN54-2: 1997 + A1: 2006: 7.8 Output to fire alarm devices (option with requirements) 7.9.1 Output to fire alarm routing equipment (option with requirements) 7.10.1 Output type A (option with requirement) 7.10.2 Output type B (option with requirement) 8.9 Output to fault warning routing equipment (option with requirements) *Note:* *1. This product approval does not constitute compliance with the fire detection and alarm systems requirements of EN 54-13.*	1395c/03
AW-CFP2166-16	16 Zone Conventional Control and Indicating EquipmentIncorporating the following units: Asenware Main Board Main Board Asenware Interface Board Interface Board Asenware PSE Power and Charger Board Asenware Zonal Boards 4 x 4 Zone Boards Asenware EMI EMI Board Certified with the following options with requirements from EN54-2: 1997 + A1: 2006: 7.8 Output to fire alarm devices (option with requirements)	1395c/04

Certificated Products		LPCB Ref. No.
	7.9.1 Output to fire alarm routing equipment (option with requirements) 7.10.1 Output type A (option with requirement) 7.10.2 Output type B (option with requirement) 8.9 Output to fault warning routing equipment (option with requirements) *Note:* *1. This product approval does not constitute compliance with the fire detection and alarm systems requirements of EN 54-13.*	
AW-CFP2166-20	20 Zone Conventional Control and Indicating EquipmentIncorporating the following units: Asenware Main Board Main Board Asenware Interface Board Interface Board Asenware PSE Power and Charger Board Asenware Zonal Boards 5 x 4 Zonal Boards Asenware EMI EMI Board Certified with the following options with requirements from EN54-2: 1997 + A1: 2006: 7.8 Output to fire alarm devices (option with requirements) 7.9.1 Output to fire alarm routing equipment (option with requirements) 7.10.1 Output type A (option with requirement) 7.10.2 Output type B (option with requirement) 8.9 Output to fault warning routing equipment (option with requirements) *Note:* *1. This product approval does not constitute compliance with the fire detection and alarm systems requirements of EN 54-13.*	1395c/05
AW-CFP2166-24	24 Zone Conventional Control and Indicating EquipmentIncorporating the following units: Asenware Main Board Main Board Asenware Interface Board Interface Board Asenware PSE Power and Charger Board Asenware Zonal Boards 6 x 4 Zone Boards Asenware EMI EMI Board Certified with the following options with requirements from EN54-2: 1997 + A1: 2006: 7.8 Output to fire alarm devices (option with requirements) 7.9.1 Output to fire alarm routing equipment (option with requirements) 7.10.1 Output type A (option with requirement) 7.10.2 Output type B (option with requirement) 8.9 Output to fault warning routing equipment (option with requirements) *Note:* *1. This product approval does not constitute compliance with the fire detection and alarm systems requirements of EN 54-13.*	1395c/06
AW-CFP2166-28	28 Zone Conventional Control and Indicating EquipmentIncorporating the following units: Asenware Main Board Main Board Asenware Interface Board Interface Board Asenware PSE Power and Charger Board Asenware Zonal Boards 7 x 4 Zone Boards Asenware EMI EMI Board Certified with the following options with requirements from EN54-2: 1997 + A1: 2006: 7.8 Output to fire alarm devices (option with requirements) 7.9.1 Output to fire alarm routing equipment (option with requirements) 7.10.1 Output type A (option with requirement) 7.10.2 Output type B (option with requirement) 8.9 Output to fault warning routing equipment (option with requirements) *Note:* *1. This product approval does not constitute compliance with the fire detection and alarm systems requirements of EN 54-13.*	1395c/07
AW-CFP2166-32	32 Zone Conventional Control and Indicating EquipmentIncorporating the following units: Asenware Main Board Main Board Asenware Interface Board Interface Board Asenware PSE Power and Charger Board Asenware Zonal Boards 8 x 4 Zone Boards Asenware EMI EMI Board Certified with the following options with requirements from EN54-2: 1997 + A1: 2006: 7.8 Output to fire alarm devices (option with requirements) 7.9.1 Output to fire alarm routing equipment (option with requirements) 7.10.1 Output type A (option with requirement) 7.10.2 Output type B (option with requirement) 8.9 Output to fault warning routing equipment (option with requirements) *Note:* *1. This product approval does not constitute compliance with the fire detection and alarm systems requirements of EN 54-13.*	1395c/08

A copy of the certificate, confirming the full scope of approval including notes relating to the superscript references in the above table, may be viewed online by clicking on the product name in the associated entry on www.RedBookLive.com

There are many types of detectors on the market designed to work on different principles and fire parameters (e.g. smoke, flame radiation, convective heat etc). The selection of a detector for a particular area or application should be based on a number of factors including the following:

- The nature of the fire hazard
- The speed of response required
- The need to minimize false alarms

There are other factors to be taken into account such as architecture of the building, ease of maintenance and cost, etc.

Guidance on the selection of appropriate types of detectors should be sought from the applicable installation rule or code of practice (e.g. BS 5839-1). Where a particular type of detector is not covered by the installation rule or code of practice then guidance should be sought from the manufacturer's literature. In any case, account should be given to the notes or limitations given with the listed detector in this section.

This section lists fire detectors approved for use in fire detection and fire alarm systems in buildings.

The initial approval and continued approval processes for detectors are outlined in scheme document SD021.

The list includes detectors certified to recognised standards or to special test schedules which are developed by LPCB for detector types where suitable standards are not available or were not available at the time of the evaluation.

Products listed in this section have been approved to:

- EN 54-5 *Heat detectors - point detectors*
- EN 54-7 *Smoke detectors - point detectors using scattered light, transmitted light or ionisation*
- EN 54-10 *Flame detectors - point detectors*
- EN 54-12 *Smoke detectors - line detectors using an optical light beam*
- EN 54-20 *Aspirating smoke detectors*
- EN 54-25 *Components using radio links*
- ISO7240-5 *Point -type heat detectors*
- ISO7240-7 *Point-type smoke detectors using scattered light, transmitted light or ionization*
- ISO7240-12 *Line type smoke detectors using transmitting light beam*
- ISO7240-15 *Multisensor fire detectors*
- ISO 7240-6 *Carbon monoxide fire detectors using electro-chemical cells and heat sensors.*
- CEA 4021 *Requirements and test methods for multisensor detectors, which respond to smoke and heat, and smoke detectors with more than one smoke sensor*
- LPS 1265-1.1 *Requirements and Testing Procedures for the LPCB Approval and Listing of Carbon Monoxide Fire Detectors Using Electrochemical Cells*
- LPS 1274-1.0 *Testing Procedures for the LPCB Approval and Listing of Carbon Monoxide /Heat Multisensor Fire Detectors Using Electrochemical Cells*
- LPS 1279-1.0 *Testing Procedures for the LPCB Approval and Listing of Point Multisensor Fire Detectors using Optical or Ionization Smoke Sensors and Electrochemical Cell CO Sensors and, optionally, Heat Sensors*
- LPS 1280-1.0 *Testing Procedures for the LPCB Approval and Listing of Duct Smoke Detectors using Point Smoke Detectors*

Approval can also be obtained for other detection principles not detailed above. In such circumstances, LPCB can develop test criteria to evaluate products, which in time may be used for the development of standards.

Audit:
Regular product auditing and regular factory inspections are carried out by LPCB ensuring high manufacturing standards and continued compliance with the applicable product standard.

Notes:

1. The bases with which a detector has been evaluated and shown to meet the relevant standards are listed with each detector. Bases are not approved/certificated in their own right unless they are combined with another device (e.g. short circuit isolator or sounder).

2. Since LPCB uses national and international standards for the listing of products, in some instances the requirements of these standards may conflict with the recommendations of local codes of practice. We recommend that specifiers seek advice from the relevant local authorities and amend their specifications accordingly.

ADI International

ADI International Espana, C/Vivero 5, 28040 Madrid, Spain
Tel: +34 91 102 590 • Fax: +34 91 535 0081
E-mail: Jim.Clarke@systemsensor.com • Website: www.ademco.es

Adkinns Inc.

5063 Commercial Circle, Concord CA 94520, USA
Tel: +1 (650) 457 4580
Website: www.adkinns.com

Certificate No: 1426c-(cl-6) to EN 54-7:2018

Certificated Products		LPCB Ref. No.
PYR-FA-CHA-SD	Addressable Smoke Detector (PYR-FA-CHA-DB Base) (Branded as Pyronics) Notes: Meets the requirements of EN 54-7 for 1 sensitivity setting	1426c/01

Base:
PYR-FA-CHA-DB
A copy of the certificate, confirming the full scope of approval including notes relating to the superscript references in the above table, may be viewed online by clicking on the product name in the associated entry on www.RedBookLive.com

Certificate No: 1426k-(cl-4) to EN 54-5:2017 + A1:2018, EN 54-7:2018

Certificated Products		LPCB Ref. No.
PYR-FA-CHA-MD	Analogue Addressable Optical/Heat Multi-sensor Detector (Base PYR-FA-CHA-DB) (Branded as Pyronics) Notes: 1. Meets the requirements of EN 54-7 using Modes 1 & 2 at sensitivity level 1 and EN 54-5 using Modes 1 & 2 for Category A2R, and A2. 2. Meets the requirements of EN 54-5 using Modes 3 & 4 for Category A2R, and A2S Meets the requirements of EN 54-7 using Mode 5 at sensitivity level 1	1426k/01

Base
PYR-FA-CHA-DB

A copy of the certificate, confirming the full scope of approval including notes relating to the superscript references in the above table, may be viewed online by clicking on the product name in the associated entry on www.RedBookLive.com

Certificate No: 1426b-(cl-6) to EN 54-5:2017 + A1:2018

Certificated Products		LPCB Ref. No.
PYR-FA-CHA-HD	Addressable Heat Detector (Base PYR-FA-CHA-DB) (Branded as Pyronics) Notes:	1426b/01

Certificated Products		LPCB Ref. No.
	Meets the requirements of EN 54-5 for Category A2	

Base:
PYR-FACHA-DB
A copy of the certificate, confirming the full scope of approval including notes relating to the superscript references in the above table, may be viewed online by clicking on the product name in the associated entry on www.RedBookLive.com

---

Advanced Electronics Limited

The Bridges, Balliol Business Park, Longbenton, Newcastle-Upon-Tyne NE12 8EW, United Kingdom
Tel: +44 (0)345 894 7000 • Fax: +44 (0)1670 707 222
E-mail: pbrown@advancedco.com • Website: www.advancedco.com

Certificate No: 928d-(cl-5) to EN 54-5: 2017 + A1: 2018

Point Heat Detectors

Certificated Products		LPCB Ref. No.
20-AS3500-ADV	Conventional Category P, heat detector (20-AB100-ADV, 20-ABR100-ADV, 20-ABDR100-ADV, 20-ABS100-ADV, 20-ABSR100-ADV and 20-ABSRD100-ADV) *Note:* *1. Meets the requirements of EN 54-5 for Category A1R and Category B.*	928d/02

Bases

20-AB100-ADV	Mounting base
20-VB100-ADV	Mounting base (with link resistor)
20-ABR100-ADV	Universal adaptor base with resistor
20-ABDR100-ADV	Universal adaptor base with resistor and Schottky diode
20-ABS100-ADV	Deep adaptor base
20-ABSR100-ADV	Deep adaptor base with resistor
20-ABSRD100-ADV	Deep adaptor base with resistor and Schottky diode
WAB100	Wireless adaptor base
Axis-MB	Mounting Base

A copy of the certificate, confirming the full scope of approval including notes relating to the superscript references in the above table, may be viewed online by clicking on the product name in the associated entry on www.RedBookLive.com

Certificate No: 928e-(cl-5) to EN 54-7: 2018

Point Smoke Detectors

Certificated Products		LPCB Ref. No.
20-AS1000-ADV	Conventional photo smoke detector (20-AB100-ADV, 20-ABR100-ADV, 20-ABDR100-ADV, 20-ABS100-ADV, 20-ABSR100-ADV and 20-ABSRD100-ADV)	928e/02

Bases

20-AB100-ADV	Mounting base
20-VB100-ADV	Mounting base (with link resistor)
20-ABR100-ADV	Universal adaptor base with resistor
20-ABDR100-ADV	Universal adaptor base with resistor and Schottky diode
20-ABS100-ADV	Deep adaptor base
20-ABSR100-ADV	Deep adaptor base with resistor
20-ABSRD100-ADV	Deep adaptor base with resistor and Schottky diode
Axis-MB	Mounting Base

A copy of the certificate, confirming the full scope of approval including notes relating to the superscript references in the above table, may be viewed online by clicking on the product name in the associated entry on www.RedBookLive.com

Certificate No: 928ac-(cl-1) to EN 54-5: 2017 + A1: 2018, EN 54-7: 2018, EN 54-17: 2005 & CEA 4021: 2003

Multi-sensor detectors

Certificated Products		LPCB Ref. No.
Axis-OHX	Addressable Multi-Criteria Detector with Short Circuit Isolator (Axis-MB base)	928ac/01

Certificated Products		LPCB Ref. No.
	Notes: *1. Meets the requirements of EN 54-5 & EN 54-7 at the following settings:* *Multi Criteria Level 1 (most sensitive) - Thermally enhanced smoke detection with Category A1 heat response* *Multi Criteria Level 2 - Thermally enhanced smoke detection with Category A1 heat response* *Multi Criteria Level 3 - Thermally enhanced smoke detection with Category A1 heat response* *Multi Criteria Level 4 (least sensitive) - Thermally enhanced smoke detection with Category A1 heat response* *2. Meets the requirements of EN 54-5 at the following settings:* *Category A1R heat only response* *3. Meets the requirements of EN 54-7 at the following sensitivity settings:* *Optical only level 1 - High* *Optical only level 2* *Optical only level 3* *Optical only level 4 - Low*	

Bases
20-AB100-ADV Mounting base
20-VB100-ADV Mounting base (with link resistor)
Axis-MB Mounting Base
A copy of the certificate, confirming the full scope of approval including notes relating to the superscript references in the above table, may be viewed online by clicking on the product name in the associated entry on www.RedBookLive.com

Certificate No: 928k-(cl-1) to EN 54-7: 2018 and EN 54-25: 2008

Smoke Detectors

Certificated Products		LPCB Ref. No.
Axis-ROP	Axis Wireless Addressable Optical Smoke Detector (WAB100 Base) *Notes:* *1. Meets the requirements of EN 54-7 at the following sensitivity settings:* *Level 1 - High* *Level 2 - Normal* *Level 3 - Low* *2. The device must be used with the following battery type only:* *CR123A (3 Vdc) - Primary and Secondary Battery*	928k/02

Bases:
WAB100 Wireless Adaptor Base

A copy of the certificate, confirming the full scope of approval including notes relating to the superscript references in the above table, may be viewed online by clicking on the product name in the associated entry on www.RedBookLive.com

Certificate No: 928m-(cl-1) to EN 54-5: 2017 + A1: 2018, EN 54-7: 2018, EN 54-25: 2008 and CEA 4021: 2003

Multi-Criteria Detectors

Certificated Products		LPCB Ref. No.
Axis-ROH	Axis Wireless Addressable Multicriteria Detector (WAB100 Base) *Notes:* *1. Meets the requirements of EN 54-5 for Category A1R* *2. Meets the requirements of EN 54-7 at the following sensitivity settings:* *Level 1 - High* *Level 2 - Normal* *Level 3 - Low* *3. The device must be used with the following battery type only:* *CR123A (3 Vdc) - Primary and Secondary Battery*	928m/02

Bases:
WAB100 Wireless Adaptor Base
A copy of the certificate, confirming the full scope of approval including notes relating to the superscript references in the above table, may be viewed online by clicking on the product name in the associated entry on www.RedBookLive.com

Certificate No: 928j-(cl-1) to EN 54-5:2017+A1:2018, EN 54-25:2008

Certificated Products		LPCB Ref. No.
Axis-RHT	Axis Wireless Addressable Heat Detector (WAB100 Base) Notes: 1. Meets the requirements of EN 54-5 for Category A1R and BS 2. The device must be used with the following battery type only: CR123A (3 Vdc) - Primary and Secondary Battery	928j/02

Bases

WAB100 Wireless Adaptor Base

A copy of the certificate, confirming the full scope of approval including notes relating to the superscript references in the above table, may be viewed online by clicking on the product name in the associated entry on www.RedBookLive.com

Certificate No: 928ad-(cl-1) to EN 54-5:2017+A1:2018, EN 54-17:2005

Certificated Products		LPCB Ref. No.
Axis-HTX	Analogue Addressable Category P Heat Detector with Short Circuit Isolator (Axis-MB base) Note: 1. Meets the requirements of EN 54-5 at Category A1R and Category BS	928ad/01

Bases

Axis-MB Mounting Base

A copy of the certificate, confirming the full scope of approval including notes relating to the superscript references in the above table, may be viewed online by clicking on the product name in the associated entry on www.RedBookLive.com

Certificate No: 928ag-(cl-1) to EN 54-5:2017+A1:2018

Certificated Products		LPCB Ref. No.
Axis-HT	Addressable Category P Heat Detector (Axis-MB base) Note: 1. Meets the requirements of EN 54-5 for Category A1R and Category BS	928ag/01

Bases

Axis-MB Mounting Base

A copy of the certificate, confirming the full scope of approval including notes relating to the superscript references in the above table, may be viewed online by clicking on the product name in the associated entry on www.RedBookLive.com

Certificate No: 928ab-(cl-1) to EN 54-7:2018, EN 54-17:2005

Certificated Products		LPCB Ref. No.
Axis-OPX	Analogue Addressable Photoelectric Smoke Detector with Short Circuit Isolator (Axis-MB base) Note: 1. Meets the requirements of EN 54-7 at the following sensitivity settings: Optical only level 1 - High Optical only level 2 Optical only level 3Optical only level 4 - Low	928ab/01

Bases

Axis-MB Mounting Base

A copy of the certificate, confirming the full scope of approval including notes relating to the superscript references in the above table, may be viewed online by clicking on the product name in the associated entry on www.RedBookLive.com

Certificate No: 928ae-(cl-1) to EN 54-7:2018

Certificated Products		LPCB Ref. No.
Axis-OP	Addressable Photoelectric Smoke Detector (Axis-MB base) Note: 1.Meets the requirements of EN 54-7 at the following sensitivity settings: Optical only level 1 - High Optical only level 2 Optical only level 3 Optical only level 4 - Low	928ae/01

Bases

Axis-MB Mounting Base

A copy of the certificate, confirming the full scope of approval including notes relating to the superscript references in the above table, may be viewed online by clicking on the product name in the associated entry on www.RedBookLive.com

Certificate No: 928af-(cl-1) to EN 54-5:2017+A1:2018, EN 54-7:2018, CEA4021:2003

Certificated Products		LPCB Ref. No.
Axis-OH	Addressable Photoelectric Smoke Detector & Heat Detector (Axis-MB Base) Notes: 1. Meets the requirements of EN 54-5 & EN 54-7 at the following settings: Multi criteria level 1 (most sensitive) - Thermally enhanced smoke detection with Category A1 heat response Multi criteria level 2 - Thermally enhanced smoke detection with Category A1 heat response Multi criteria level 3 - Thermally enhanced smoke detection with Category A1 heat response Multi criteria level 4 (least sensitive) - Thermally enhanced smoke detection with Category A1 heat response 2. Meets the requirements of EN 54-5 at the following settings: Category A1R heat only response 3. Meets the requirements of EN 54-7 at the following settings: Optical only level 1 - High sensitivity Optical only level 2 Optical only level 3 Optical only level 4 - Low sensitivity	928af/01

Bases

Axis-MB Mounting Base

A copy of the certificate, confirming the full scope of approval including notes relating to the superscript references in the above table, may be viewed online by clicking on the product name in the associated entry on www.RedBookLive.com

Advantronic Systems S.L.

C/Yunque 9 Nave B1, Tres Cantos, Madrid 28760, Spain
Tel: +34 91 806 2343 • Fax: +34 91 803 1171
E-mail: jpedrouzo@advantronic.es • Website: www.advantronic.es

Certificate No: 928a-(cl-3) to 54-5: 2017 + A1: 2018 and EN 54 -17: 2005

Certificated Products		LPCB Ref. No.
AT420A	Analogue Addressable Category P Heat Detector with Short-Circuit Isolator (BA400 Base) *Note:* *1. Meets the requirements of EN 54-5 for Category A1R, Category B and Category BS*	928a/02

Bases

BA100	Mounting base
BA101	Deep adaptor base
WAB100	Wireless Adaptor Base
BA400	Low Profile Adaptor Base

A copy of the certificate, confirming the full scope of approval including notes relating to the superscript references in the above table, may be viewed online by clicking on the product name in the associated entry on www.RedBookLive.com

Certificate No: 928b-(cl-3) to 54-7: 2018 and EN 54 -17: 2005

Point Smoke Detectors

Certificated Products		LPCB Ref. No.
AT410A	Addressable Photoelectric Smoke Detector with Short-Circuit Isolator (BA400 Base) *Note:* *1. Meets the requirements of EN 54-7 at the following sensitivity settings:* *Optical only level 1 - High* *Optical only level 2* *Optical only level 3* *Optical only level 4 - Low*	928b/02

Bases

BA100	Mounting base
BA101	Deep adaptor base
BA400	Low Profile Adaptor Base
WAB 100	Wireless Adaptor Base

A copy of the certificate, confirming the full scope of approval including notes relating to the superscript references in the above table, may be viewed online by clicking on the product name in the associated entry on www.RedBookLive.com

Certificate No: 928c-(cl-3) to EN 54-5: 2017+ A1: 2018, EN 54-7: 2018, EN 54 -17: 2005 & CEA4021: 2003

Multi-sensor Detectors

Certificated Products		LPCB Ref. No.
AT430A	Addressable Multi-Criteria Detector with Short-Circuit Isolator (BA400 base) *Notes:* *1. Meets the requirements of EN 54-5 (Category A1) & EN 54-7 at the following settings:* *Multi Criteria Level 1 (most sensitive) - Thermally enhanced smoke detection with Category A1 heat response* *Multi Criteria Level 2 - Thermally enhanced smoke detection with Category A1 heat response* *Multi Criteria Level 3 - Thermally enhanced smoke detection with Category A1 heat response* *Multi Criteria Level 4 (least sensitive) - Thermally enhanced smoke detection with CategoryA1 heat response* *2. Meets the requirements of EN 54-5 (Category A1R) at the following settings:* *CategoryA1R heat only response* *3. Meets the requirements of EN 54-7 at the following settings:* *Optical only level 1 - High* *Optical only level 2* *Optical only level 3* *Optical only level 4 - Low*	928c/02

Bases

BA100	Mounting base
BA400	Low Profile Adaptor Base

A copy of the certificate, confirming the full scope of approval including notes relating to the superscript references in the above table, may be viewed online by clicking on the product name in the associated entry on www.RedBookLive.com

Certificate No: 928k-(cl-2) to EN 54-7: 2018 and EN 54-25: 2008

Smoke Detectors

Certificated Products		LPCB Ref. No.
ATW410A	Wireless Libra Addressable Optical Smoke Detector (WAB100 Base)	928k/02

Certificated Products		LPCB Ref. No.
	Notes: *1. Meets the requirements of EN 54-7 at the following sensitivity settings:* *Level 1 - High* *Level 2 - Normal* *Level 3 - Low* *2. The device must be used with the following battery type only:* *- CR123A (3 Vdc) - Primary and Secondary Battery*	

Bases:
WAB100 Wireless Adaptor Base
A copy of the certificate, confirming the full scope of approval including notes relating to the superscript references in the above table, may be viewed online by clicking on the product name in the associated entry on www.RedBookLive.com

Certificate No: 928m-(cl-2) to EN 54-5: 2017 + A1: 2018, EN 54-7: 2018, EN 54-25: 2008 and CEA 4021: 2003

Multi-Criteria Detectors

Certificated Products		LPCB Ref. No.
ATW430A	Wireless Libra Addressable Multicriteria Detector (WAB100 Base) *Notes:* *1. Meets the requirements of EN 54-5 for Category A1R* *2. Meets the requirements of EN 54-7 at the following sensitivity settings:* *Level 1 - High* *Level 2 - Normal* *Level 3 - Low* *3. The device must be used with the following battery type only:* *CR123A (3 Vdc) - Primary and Secondary Battery*	928m/02

Bases:
WAB100 Wireless Adaptor Base
A copy of the certificate, confirming the full scope of approval including notes relating to the superscript references in the above table, may be viewed online by clicking on the product name in the associated entry on www.RedBookLive.com

Certificate No: 928d-(cl-3) to EN 54-5:2017+A1:2018

Certificated Products		LPCB Ref. No.
AT120CM	Conventional Category P Heat Detector (BA100 and BA101 bases) Note: Meets the requirements of EN 54-5 for Category A1R and Category B	928d/02
AT420AS	Addressable Category P Heat Detector (BA400 Base) Note: 1. Meets the requirements of EN 54-5 for Category A1R, Category B and Category BS	928d/03

Bases

BA100 Mounting Base
BA101 Deep Adaptor Base
BA400 Low Profile Adaptor Base

A copy of the certificate, confirming the full scope of approval including notes relating to the superscript references in the above table, may be viewed online by clicking on the product name in the associated entry on www.RedBookLive.com

Certificate No: 928j-(cl-2) to EN 54-5:2017+A1:2018, EN 54-25:2008

Certificated Products		LPCB Ref. No.
ATW420A	Wireless Libra Addressable Category P Heat Detector (WAB100 Base) Notes: 1. Meets the requirements of EN 54-5 for Category A1R and BS 2. The device must be used with the following battery type only: - CR123A (3 Vdc) - Primary and Secondary Battery	928j/02

Bases

WAB100 Wireless Adaptor Base

A copy of the certificate, confirming the full scope of approval including notes relating to the superscript references in the above table, may be viewed online by clicking on the product name in the associated entry on www.RedBookLive.com

Certificate No: 928e-(cl-3) to EN 54-7:2018

Certificated Products		LPCB Ref. No.
AT110CM	Conventional Photo Smoke Detector (BA100 and BA101 Bases)	928e/02
AT410AS	Addressable Photoelectric Smoke Detector (BA400 Base) Note: 1. Meets the requirements of EN 54-7 at the following sensitivity settings: Optical only level 1 - High Optical only level 2 Optical only level 3 Optical only level 4 - Low	928e/03

Bases

BA100 Mounting Base
BA101 Deep Adaptor Base
BA400 Low Profile Adaptor Base

A copy of the certificate, confirming the full scope of approval including notes relating to the superscript references in the above table, may be viewed online by clicking on the product name in the associated entry on www.RedBookLive.com

Certificate No: 928f-(cl-3) to EN 54-5:2017+A1:2018, EN 54-7:2018, CEA 4021:2003

Certificated Products		LPCB Ref. No.
AT430AS	Addressable Photo & Category A1R Heat Detector (BA400 Base) Notes 1. Meets the requirements of EN 54-5 (Category A1) & EN 54-7 at the following settings: Multi criteria level 1 (most sensitive) - thermally enhanced smoke detection with Category A1 heat Multi criteria level 2 - thermally enhanced smoke detection with Category A1 heat response Multi criteria level 3 - thermally enhanced smoke detection with Category A1 heat response Multi criteria level 4 (least sensitive) - thermally enhanced smoke detection with Category A1 heat 2. Meets the requirements of EN 54-5 (Category A1R) at the following settings: Heat detection only Category A1R 3. Meets the requirements of EN 54-7 at the following settings: Optical only level 1 - High Optical only level 2 Optical only level 3 Optical only level 4 - Low	928f/02

Bases

BA400 Low Profile Adaptor Base

A copy of the certificate, confirming the full scope of approval including notes relating to the superscript references in the above table, may be viewed online by clicking on the product name in the associated entry on www.RedBookLive.com

Agni Controls

2/235 Kundrathur High Road, Gerugambakkam, Chennai 600122, India
Tel: • Fax:
E-mail: selva@agnicontrols.com • Website: www.balafire.com

Certificate No: 1259a to EN 54-10: 2002

Flame Detectors

Certificated Products		LPCB Ref. No.
IH226	Conventional UV/IR Flame Detector (IHMB01-XY Base) *Note:* *Meets the requirements of EN 54-10:2002 at Class 1 only*	1259a/01
IH8228	Flame Proof Triple Sensor UV-IR Flame Detector (IHMB09-XY Base) *Note:* *Meets the requirements of EN 54-10:2002 at Class 1 only*	1259a/02

Bases
IHMB01-XY Swivel Mounting Base
IHMB09-XY Base

A copy of the certificate, confirming the full scope of approval including notes relating to the superscript references in the above table, may be viewed online by clicking on the product name in the associated entry on www.RedBookLive.com

---

Al Rayan Security & Safety Trading

Warehouse No, 12, Al Qusais Industrial Area 4, P O Box 233949, Dubai, United Arab Emirates
Tel: +971 42630396 • Fax: +971 42630397
E-mail: rayandxb@eim.ae • Website: www.rayandxb.ae

Certificate No: 1174a-(cl-5) to EN 54-7:2018

Smoke Detectors

Certificated Products		LPCB Ref. No.
SC-6623	Conventional Optical Smoke Detector (SB-6611 base) (branded as SECURE) *Note:* *1. Meets the requirements of EN 54-7 at default sensitivity setting only*	1174a/01
SI-6627	Addressable Optical Smoke Detector (SB-6617 base) (branded as SECURE) *Note:* *1. Meets the requirements of EN 54-7 at the following sensitivities:* *- Mode 0 (High)* *- Mode 1 (Factory Setting)* *- Mode 2* *- Mode 3 (Low)*	1174a/02

Bases
SB-6611 Base
SB-6617 Addressable mounting base
A copy of the certificate, confirming the full scope of approval including notes relating to the superscript references in the above table, may be viewed online by clicking on the product name in the associated entry on www.RedBookLive.com

Certificate No: 1174b-(cl-5) to EN 54-5:2017 + A1:2018

Heat Detectors

Certificated Products		LPCB Ref. No.
SC-6633	Conventional Heat Detector (SB-6611 base) (branded as SECURE) *Note:* *1. Meets the requirements of EN 54-5 at Category A2R*	1174b/01
SI-6637	Addressable Heat Detector (SB-6617 base) (branded as SECURE) *Note:* *1. Meets the requirements of EN 54-5 at Category A1R and A2*	1174b/02

Bases
SB-6611 Base
SB-6617 Base
A copy of the certificate, confirming the full scope of approval including notes relating to the superscript references in the above table, may be viewed online by clicking on the product name in the associated entry on www.RedBookLive.com

Certificate No: 1174f-(cl-1) to EN 54-5:2017 + A1:2018; EN 54-7:2018; CEA 4021:2003

Multi-Sensor/Multi-Criteria Detectors

Certificated Products		LPCB Ref. No.
SI-6647	Addressable Smoke and Heat Detector (SB-6617 base) (branded as SECURE) *Notes:* *1) Meets the requirements of EN 54-5 at Category A1R and A2* *2) Meets the requirements of EN 54-7 at the following sensitivity settings* *- Smoke Mode 2 and A1R* *- Smoke Mode 2 and A2* *- Smoke Mode 2 (Smoke only), heat disabled*	1174f/01

Bases
SB-6617 Base

A copy of the certificate, confirming the full scope of approval including notes relating to the superscript references in the above table, may be viewed online by clicking on the product name in the associated entry on www.RedBookLive.com

---

Ampac Pty Ltd

7 Ledgar Road, Balcatta 6021, Australia
Tel: +618 (9242) 3333 • Fax: +618 (9242) 3334
E-mail: askellham@ampac.net • Website: www.ampac.net

Certificate No: 010p-(cl-2) to EN54-5: 2017 + A1: 2018

Heat Detectors

Certificated Products		LPCB Ref. No.
58000-400AMP	Discovery Analogue Addressable Category P Heat Detector (45681-209AMP and 45681-210AMP bases) Notes: 1. Meets the requirements of EN54: Part 5 at the following modes: - Category A1R in mode 1 and in conventional mode - Category A2 in mode 2 and in conventional mode - Category A2S in mode 3 and in conventional mode - Category CR in mode 4 and in conventional mode - Category CS in mode 5 and in conventional mode 2. Certified with Apollo Discovery, XP95, and S90 digital communications protocols configured for the Discovery Heat Detector in accordance with manufacturers instructions.	010p/03
55000-122AMP	Series 65 Conventional Category A1R heat detector - Standard (45681-200AMP mounting base) [1] *Meets the requirements of EN54: Part 5 - Category A1R*	010p/06
55000-127AMP	Series 65 Conventional Category BR heat detector - Standard (45681-200AMP mounting base) [1] *Meets the requirements of EN54: Part 5 - Category BR*	010p/09
55000-132AMP	Series 65 Conventional Category CR heat detector - Standard (45681-200AMP mounting base) [1] *Meets the requirements of EN54: Part 5 - Category CR*	010p/12
55000-137AMP	Series 65 Conventional Category CS heat detector - Standard (45681-200AMP mounting base) [1] *Meets the requirements of EN54: Part 5 - Category CS*	010p/15
55000-420AMP	XP95 Analogue Addressable Category A2S Heat Detector (45681-209AMP and 45681-210AMP bases) Notes: 1. Meets the requirements of EN54: Part 5 at Category A2S 2. Certified with Apollo Discovery, XP95, and S90 digital communications protocols configured for the Discovery Heat Detector in accordance with manufacturers instructions.	010p/22

Bases
45681-200AMP Series 60/65 mounting base
45681-201AMP Series 60/65 diode mounting base
45681-245AMP Series 65 relay mounting base
45681-246AMP Series 65 auxiliary relay mounting base
45681-247AMP Series 65 EOL 12 Volt mounting base
45681-248AMP Series 65 EOL 24 Volt mounting base
SA5000-200AMP Addressable XPERT 8 mounting base

45681-209AMP XP95/Discovery standard deep mounting base
45681-210AMP XP95 Mounting base

Notes:
[1] Also certificated for use with 45681-245AMP, 45681-246AMP, 45681-247AMP, 45681-248AMP and 45681-201AMP mounting bases.

A copy of the certificate, confirming the full scope of approval including notes relating to the superscript references in the above table, may be viewed online by clicking on the product name in the associated entry on www.RedBookLive.com

Certificate No: 010q-(cl-2) to EN 54-7:2018
Certificate No: 010q to EN 54-7:2018

Smoke Detectors

Certificated Products		**LPCB Ref. No.**
58000-500AMP	Discovery Analogue Addressable Ionisation Smoke Detector (45681-209 and 45681-210 mounting bases) Note: 1. Meets the requirements of EN 54: Part 7 in modes 1, 2, 3, 4, 5 and in conventional mode. Certified with Apollo, Discovery, XP95 and S90 digital communication protocols that have been configured for the Discovery ionisation smoke detectors in accordance with manufacturer's instructions	010q/02
58000-600AMP	Discovery Analogue Addressable Photoelectric Smoke Detector (45681-209 and 45681-210 mounting bases) Note: 1. Meets the requirements of EN54: Part 7 in modes 1, 2, 3, 4 and 5 and inconventional mode. Certified with Apollo Discovery, XP95, and S90 digital communication protocols that have been configured for the Discovery optical smoke detectors in accordance with manufacturer's instructions.	010q/03
55000-217AMP	Series 65 Conventional ionisation smoke detector - Standard (45681-200AMP mounting base) [1]	010q/06
55000-220AMP	Series 65 Conventional integrating ionisation smoke detector - Standard (45681-200AMP mounting base) [1]	010q/09
55000-317AMP	Series 65 Conventional optical smoke detector - Standard (45681-200AMP mounting base) [1]	010q/12
55000-620AMP	XP95 Analogue Addressable Optical Smoke Detector (45681-209AMP and 45681-210AMP bases) Note: 1. Certified with Apollo Discovery, XP95, and S90 digital communication protocols that have been configured for the Discovery optical smoke detectors in accordance with manufacturer's instructions.	010q/19

Bases
45681-200AMP Series 60/65 mounting base
45681-201AMP Series 60/65 diode mounting base
45681-245AMP Series 65 relay mounting base
45681-246AMP Series 65 auxiliary relay mounting base
45681-247AMP Series 65 EOL 12 Volt mounting base
45681-248AMP Series 65 EOL 24 Volt mounting base
SA5000-200AMP Addressable XPERT 8 mounting base
45681-210AMP XP95 mounting base
45681-209AMP XP95/Discovery standard deep mounting base
FL5000-200AMP Soteria Dimension Backbox

Notes:
[1] Also certificated for use with 45681-245AMP, 45681-246AMP, 45681-247AMP, 45681-248AMP and 45681-201AMP mounting bases.

A copy of the certificate, confirming the full scope of approval including notes relating to the superscript references in the above table, may be viewed online by clicking on the product name in the associated entry on www.RedBookLive.com

Negative Switching Isolating Base

Certificate No: 010m-(cl-1) to EN54-7:2018 & CEA 4021: 2003

Multi-Sensor/Multi-Criteria Detectors

Certificated Products		LPCB Ref. No.
55000-885AMP	Analogue addressable multisensor detector (45681-209AMP and 45681-210AMP mounting base)Approved with Apollo XP95 and S90 digital communication protocols that have been configured for the XP95 multisensor detector in accordance with manufacturers instructions.	010m/01

Bases

45681-209AMP	XP95/Discovery standard deep mounting base
45681-210AMP	XP95 mounting base
SA5000-200AMP	Addressable XPERT 8 mounting base
46581-209	XP95/Discovery standard deep mounting base
45681-210	XP95 Mounting base

A copy of the certificate, confirming the full scope of approval including notes relating to the superscript references in the above table, may be viewed online by clicking on the product name in the associated entry on www.RedBookLive.com

Certificate No: 010bg-(cl-1) to EN 54-5: 2017 + A1: 2018

Heat Detectors

Certificated Products		LPCB Ref. No.
SA5000-400AMP	Soteria Analogue Addressable Category P Heat Detector (SA5000-200AMP and 45681-210AMP bases) Note: Meets requirements of EN 54-5 for categories A1R, A2R, A2S, CR, CS, BR and BS.	010bg/01

Bases
45681-200AMP Series 60/65 mounting base
SA5000-200AMP Addressable XPERT 8 mounting base

A copy of the certificate, confirming the full scope of approval including notes relating to the superscript references in the above table, may be viewed online by clicking on the product name in the associated entry on www.RedBookLive.com

Certificate No: 010bd-(cl-1) to EN 54-5:2017 + A1:2018 & EN 54-17: 2005

Heat Detectors

Certificated Products		LPCB Ref. No.
SA5100-400AMP	Soteria Analogue Addressable Class P Heat Detector with Short Circuit Isolator (SA5000-200AMP and 45681-210AMP bases) Note: Meets requirements of EN 54-5 for categories A1R, A2R, A2S, CR, CS, BR and BS.	010bd/01

Bases
45681-200AMP Series 60/65 mounting base
SA5000-200AMP Addressable XPERT 8 mounting base
A copy of the certificate, confirming the full scope of approval including notes relating to the superscript references in the above table, may be viewed online by clicking on the product name in the associated entry on www.RedBookLive.com

Certificate No: 010bf-(cl-1) to EN 54-7: 2018

Smoke Detectors

Certificated Products		LPCB Ref. No.
SA5000-600AMP	Soteria Analogue Addressable Optical Smoke Detector (SA5000-200AMP and 45681-210AMP bases) Certified at the following settings: Mode 1: High sensitivity smoke detector with fast response time Mode 2: High sensitivity smoke detector with standard response time Mode 3: Standard smoke sensitivity with fast response time Mode 4: Standard smoke sensitivity with standard response time Mode 5: Medium-Low sensitivity smoke detector with fast response time	010bf/01

Bases

SA5000-200AMP Addressable XPERT 8 mounting base
45681-210AMP XP95 mounting base
A copy of the certificate, confirming the full scope of approval including notes relating to the superscript references in the above table, may be viewed online by clicking on the product name in the associated entry on www.RedBookLive.com

Certificate No: 010bc-(cl-1) to EN 54-7:2018 & EN 54-17: 2005

Smoke Detectors

Certificated Products		**LPCB Ref. No.**
SA5100-600AMP	Soteria Analogue Addressable Optical Smoke Detector with Short Circuit Isolator (SA5000-200AMP and 45681-210AMP bases) Certified at the following settings: Mode 1: High sensitivity smoke detector with fast response time Mode 2: High sensitivity smoke detector with standard response time Mode 3: Standard smoke sensitivity with fast response time Mode 4: Standard smoke sensitivity with standard response time Mode 5: Medium-Low sensitivity smoke detector with fast response time	010bc/01

Bases
SA5000-200AMP Addressable XPERT 8 mounting base
45681-210AMP XP95 mounting base

A copy of the certificate, confirming the full scope of approval including notes relating to the superscript references in the above table, may be viewed online by clicking on the product name in the associated entry on www.RedBookLive.com

Certificate No: 010bk-(cl-1) to EN 54-7:2018 & EN 54-17: 2005

Smoke Detectors

Certificated Products		**LPCB Ref. No.**
FL6100-600AMP	Soteria Dimension Specialist Optical Detector (FL5000-200AMP)	010bk/01
FL5100-600AMP	Soteria Dimension Optical Detector (FL5000-200AMP) Note: 1. Soteria Dimension Optical Faceplate Accessory Black (43785-345)	010bk/02

Bases
FL5000-200AMP Soteria Dimension Backbox

A copy of the certificate, confirming the full scope of approval including notes relating to the superscript references in the above table, may be viewed online by clicking on the product name in the associated entry on www.RedBookLive.com

Certificate No: 010aq-(cl-1) to EN 54-5: 2017 + A1: 2018 + LPS 1274: 2005 + LPS 1265: 2004

Multi-Sensor/Multi-Criteria Detectors

Certificated Products		**LPCB Ref. No.**
58000-305AMP	Analogue addressable CO/heat multisensor detector (45681-210AMP, standard intelligent mounting base) Notes: 1. Approved with the following mode configurations:- Mode 1 30 ppm with high thermal enhancement (most sensitive) Mode 2 33 ppm with CO only Mode 3 40 ppm with low thermal enhancement (nominal sensitivity) Mode 4 45 ppm with high thermal enhancement (least sensitive) Mode 5 heat only Categpry A1R 2. Mode 1 , 3, and 4 are approved to LPS1274:2005 and EN 54-5 3. Mode 2 is approved to LPS 1265:2004 4. Mode 5 is approved to EN 54-5 Conditions of approval include; a) The 58000-305AMP should only be installed in accordance with the manufacturers recommendations. b) The 58000-305AMP should not be set only as a carbon monoxide fire detector where there is a specific risk of rapid burning/flaming fires.	010aq/01

Certificated Products		LPCB Ref. No.
	c) Refer to technical publication MAN3038-1 for limitations on the use of carbon monoxide fire detection.	

Bases
45681-210AMP XP95 mounting base
A copy of the certificate, confirming the full scope of approval including notes relating to the superscript references in the above table, may be viewed online by clicking on the product name in the associated entry on www.RedBookLive.com

Certificate No: 010bb-(cl-1) to EN 54-5:2017 + A1:2018 & EN 54-7:2018 & EN 54:17: 2005 & CEA 4021: 2003

Multi-Sensor/Multi-Criteria Detectors

Certificated Products		LPCB Ref. No.
SA5100-700AMP	Soteria Analogue Addressable Class A1R Optical Smoke/Heat Detector with Short Circuit Isolator (SA5000-200AMP and 45681-210AMP bases) Certified at the following settings: Mode 1: High sensitivity smoke detector with high heat enhancement Mode 2: Standard smoke sensitivity only Mode 3: Medium sensitivity smoke detector with medium heat enhancement Mode 4: Low sensitivity smoke detector with high heat enhancement Mode 5: Class A1R heat detector	010bb/01

Bases
45681-210AMP XP95 mounting base
SA5000-200AMP Addressable XPERT 8 mounting base

A copy of the certificate, confirming the full scope of approval including notes relating to the superscript references in the above table, may be viewed online by clicking on the product name in the associated entry on www.RedBookLive.com

Certificate No: 010be-(cl-1) to EN 54-5:2017 +A1:2018, EN 54-7:2018 & CEA 4021:2003

Multi-Sensor/Multi-Criteria Detectors

Certificated Products		LPCB Ref. No.
SA5000-700AMP	Soteria Analogue Addressable Category A1R Optical Smoke/Heat Detector (SA5000-200AMP and 45681-210AMP bases) Certified at the following settings: Mode 1: High sensitivity smoke detector with high heat enhancement Mode 2: Standard smoke sensitivity only Mode 3: Medium sensitivity smoke detector with medium heat enhancement Mode 4: Low sensitivity smoke detector with high heat enhancement Mode 5: Category A1R heat detector	010be/01

Bases
45681-210AMP XP95 mounting base
SA5000-200AMP Addressable XPERT 8 mounting base

A copy of the certificate, confirming the full scope of approval including notes relating to the superscript references in the above table, may be viewed online by clicking on the product name in the associated entry on www.RedBookLive.com

Certificate No: 010h to EN 54-5:2017 + A1:2018, EN 54-7:2018 & CEA 4021:2003

Multi-Sensor/Multi-Criteria Detectors

Certificated Products		LPCB Ref. No.
58000-700AMP	Discovery Analogue Addressable Multisensor Detector (45681-209 and 45681-210 bases) Notes: 1. Certified at the following settings: Mode 1 - High sensitivity smoke detector with standard heat enhancement Mode 2 - Smoke detection only Mode 3 - Medium sensitivity smoke detector with standard heat enhancement Mode 4 - Low sensitivity smoke detector with high heat enhancement Mode 5 - Class A1 heat detector Also approved in conventional alarm modes 1, 2, 3, 4 and 5 2. Approved with Apollo Discovery, XP95, and S90 digital communication protocols that	010h/01

Certificated Products		LPCB Ref. No.
	have been configured for the Discovery multisensor detector in accordance with manufacturers instructions.	
Bases		
45681-209AMP	XP95/Discovery standard deep mounting base	
45681-210AMP	XP95 mounting base	

Apollo Fire Detectors Limited

36 Brookside Road, Havant, Hampshire PO9 1JR, United Kingdom
Tel: +44 (0)2392 492412 • Fax: +44 (0)2392 492754
E-mail: enquiries@apollo-fire.co.uk

Sales Enquiries Germany
Apollo Deutschland GmbH
Tel: +49 5241 330 60 • Fax: +49 5241 330 629
E-mail: info@apollo-feuer.de

Sales Enquiries Spain
Apollo Espana
Tel: +34 627 988 061 • Fax: +34 949 335 289
E-mail: apollo.espana@apollo-fire.com

Sales Enquiries China
Apollo Fire Detectors Limited, Shanghai representative office
Tel: +86 21 5237 0922 • Fax: +86 21 5237 0920
E-mail: tony.ye@apollo-fire.com

Certificate No: 010r to EN 54-5:2017 + A1:2018

Heat Detectors

Certificated Products		LPCB Ref. No.
Orbis Category A1R	Heat detectors with Apollo Approval Reference* 00001 (Approved for use with base styles OB, OL, OD, OR, EB and ORB-BA-10008-APO adaptor base) ORB-HT-11001-APO Orbis Category A1R heat detector with SensAlert and FasTest ORB-HT-11013-APO Orbis Category A1R heat detector with Flashing LED, SensAlert and FasTest	010r/01
Orbis Category A2S	Heat detectors with Apollo Approval Reference* 00002 (Approved for use with base styles OB, OL, OD, OR, EB and ORB-BA-10008-APO adaptor base) ORB-HT-11002-APO Orbis Category A2S heat detector with SensAlert and FasTest ORB-HT-11014-APO Orbis Category A2S heat detector with Flashing LED, SensAlert and FasTest	010r/02
Orbis Category BR	Heat detectors with Apollo Approval Reference* 00003 (Approved for use with base styles OB, OL, OD, OR, EB and ORB-BA-10008-APO adaptor base) ORB-HT-11003-APO Orbis Category BR heat detector with SensAlert and FasTest ORB-HT-11015-APO Orbis Category BR heat detector with Flashing LED, SensAlert and FasTest	010r/03
Orbis Category BS	Heat detectors with Apollo Approval Reference* 00004 (Approved for use with base styles OB, OL, OD, OR, EB and ORB-BA-10008-APO adaptor base) ORB-HT-11004-APO Orbis Category BS heat detector with SensAlert and FasTest ORB-HT-11016-APO Orbis Category BS heat detector with Flashing LED, SensAlert and FasTest	010r/04
Orbis Category CR	Heat detectors with Apollo Approval Reference* 00005 (Approved for use with base styles OB, OL, OD, OR, EB and ORB-BA-10008-APO adaptor base)	010r/05

Certificated Products		LPCB Ref. No.
	ORB-HT-11005-APO Orbis Category CR heat detector with SensAlert and FasTest ORB-HT-11017-APO Orbis Category CR heat detector with Flashing LED, SensAlert and FasTest	
Orbis Category CS	Heat detectors with Apollo Approval Reference* 00006 (Approved for use with base styles OB, OL, OD, OR, EB and ORB-BA-10008-APO adaptor base) ORB-HT-11006-APO Orbis Category CS heat detector with SensAlert and FasTest ORB-HT-11018-APO Orbis Category CS heat detector with Flashing LED, SensAlert and FasTest	010r/06
Orbis Category A1S	Heat detectors with Apollo Approval Reference* 00009 (Approved for use with base styles OB, OL, OD, OR, EB and ORB-BA-10008-APO adaptor base) ORB-HT-11166-APO Orbis Category A1S heat detector with SensAlert and FasTest ORB-HT-11167-APO Orbis Category A1S heat detector with Flashing LED, SensAlert and FasTest	010r/07
Orbis IS Category A1R	Intrinsically safe heat detectors with Apollo Approval Reference* 50001 (Approved for use with base styles OB (+ATEX marking) and ORB-BA-50008 adapter base) ORB-HT-51145-APO Orbis intrinsically safe Category A1R heat detector with SensAlert and FasTest ORB-HT-51146-APO Orbis intrinsically safe Category A1R heat detector with Flashing LED, SensAlert and FasTest	010r/08
Orbis IS Category A2S	Intrinsically safe heat detectors with Apollo Approval Reference* 50002 (Approved for use with base styles OB (+ATEX marking) and ORB-BA-50008 adapter base) ORB-HT-51147-APO Orbis intrinsically safe Category A2S heat detector with SensAlert and FasTest ORB-HT-51148-APO Orbis intrinsically safe Category A2S heat detector with Flashing LED, SensAlert and FasTest	010r/09
Orbis IS Category BR	Intrinsically safe heat detectors with Apollo Approval Reference* 50003 (Approved for use with base styles OB (+ATEX marking) and ORB-BA-50008 adapter base) ORB-HT-51149-APO Orbis intrinsically safe Category BR heat detector with SensAlert and FasTest ORB-HT-51150-APO Orbis intrinsically safe Category BR heat detector with Flashing LED, SensAlert and FasTest	010r/10
Orbis IS Category BS	Intrinsically safe heat detectors with Apollo Approval Reference* 50004 (Approved for use with base styles OB (+ATEX marking) and ORB-BA-50008 adapter base) ORB-HT-51151-APO Orbis intrinsically safe Category BS heat detector with SensAlert and FasTest ORB-HT-51152-APO Orbis intrinsically safe Category BS heat detector with Flashing LED, SensAlert and FasTest	010r/11
Orbis IS Category CR	Intrinsically safe heat detectors with Apollo Approval Reference* 50005 (Approved for use with base styles OB (+ATEX marking) and ORB-BA-50008 adapter base) ORB-HT-51153-APO Orbis intrinsically safe Category CR heat detector with SensAlert and FasTest ORB-HT-51154-APO Orbis intrinsically safe Category CR heat detector with Flashing LED, SensAlert and FasTest	010r/12
Orbis IS Category CS	Intrinsically safe heat detectors with Apollo Approval Reference* 50006 (Approved for use with base styles OB (+ATEX marking) and ORB-BA-50008 adapter base) ORB-HT-51155-APO Orbis intrinsically safe Category CS heat detector with SensAlert and FasTest ORB-HT-51156-APO Orbis intrinsically safe Category CS heat detector with Flashing LED, SensAlert and FasTest	010r/13
Orbis IS Category A1S	Intrinsically safe heat detectors with Apollo Approval Reference* 50009 (Approved for use with base styles OB (+ATEX marking) and ORB-BA-50008 adapter base) ORB-HT-51157-APO Orbis intrinsically safe Category A1S heat detector with SensAlert and FasTest ORB-HT-51158-APO Orbis intrinsically safe Category A1S heat detector with Flashing LED, SensAlert and FasTest	010r/14

Bases:
45681-200 Series 60 mounting base
45681-200 Series 60/65 Mounting Base
45681-201 Series 60 diode mounting base
45681-201 Series 60/65 Diode Mounting Base
45681-207 Series 60 intrinsically safe mounting base
45681-209 XP95/Discovery standard deep mounting base

45681-210 XP95 mounting base
45681-215 XP95 intrinsically safe mounting base
45681-245 Series 65 Relay mounting base
45681-246 Series 65 Auxiliary relay mounting base
45681-247 Series 65 EOL 12 Volt mounting base
45681-248 Series 65 EOL 24 Volt mounting base
SA5000-200 Addressable XPERT 8 Mounting Base
TimeSaver bases with Apollo Approval Reference* OB
TimeSaver LX bases with Apollo Approval Reference* OL
TimeSaver diode bases with Apollo Approval Reference* OD
TimeSaver relay bases with Apollo Approval Reference* OR
TimeSaver IS bases with Apollo Approval Reference* OB (+ATEX marking)
TimeSaver deep bases with Apollo Approval Reference*
EB: ORB-MB-00019-APO TimeSaver deep base
ORB-BA-50008 Orbis intrinsically safe adapter base (to be used in conjunction with the following bases only: 45681-207)
ORB-BA-10008-APO Orbis adaptor base (to be used in conjunction with the following bases only: 45681-200 & 45681-201)
53832-070 Remote LED
SA5000-200 XPERT 8 Base
45681-142 XP95 Base Sounder VAD
53832-070 Remote LED

* The Apollo 'Approval Reference Number' identifies a group of detectors that all have the same physical construction, but have features enabled or disabled via their software, and/or regional marking variations.

A copy of the certificate, confirming the full scope of approval including notes relating to the superscript references in the above table, may be viewed online by clicking on the product name in the associated entry on www.RedBookLive.com

Certificate No: 010q to EN 54-7:2018

Smoke Detectors

Certificated Products		**LPCB Ref. No.**
58000-500 Discovery	Analogue addressable ionisation smoke detector (45681-209 and 45681-210 mounting base)[2] *Note: Meets the requirements of EN 54:Part 7 in modes 1, 2, 3, 4, 5 and in conventional mode. Certificated with Apollo, Discovery, XP95 and S90 digital communication protocols that have been configured for the Discovery ionisation smoke detectors has been configured in accordance with manufacturer's instructions.*	010q/02
58000-500MAR	Discovery Analogue Addressable Ionisation Smoke Detector (45681-209 and 45681-210 bases) Notes: 1. Meets the requirements of EN 54: Part 7 in modes 1, 2, 3, 4, 5 and in conventional mode. 2. Certified with Apollo, Discovery, XP95 and S90 digital communication protocols that have been configured for the Discovery ionisation smoke detectors in accordance with manufacturer's instructions	010q/02
58000-500SIL	Discovery Analogue Addressable Ionisation Smoke Detector (45681-209 and 45681-210 bases) Notes: 1. Meets the requirements of EN 54: Part 7 in modes 1, 2, 3, 4, 5 and in conventional mode. 2. Certified with Apollo, Discovery, XP95 and S90 digital communication protocols that have been configured for the Discovery ionisation smoke detectors in accordance with manufacturer's instructions	010q/02
58000-600 Discovery	Analogue addressable photoelectric smoke detector (45681-209 and 45681-210 mounting base)[2] *Certificated with Apollo Discovery, XP95, and S90 digital communication protocols that have been configured for the Discovery optical smoke detectors in accordance with manufacturers instructions.*	010q/03
58000-600SIL	Discovery Analogue Addressable Photoelectric Smoke Detector (45681-209 and 45681-210 bases) Notes: 1. Meets the requirements of EN54: Part 7 in modes 1, 2, 3, 4 and 5 and in conventional mode. 2. Certified with Apollo Discovery, XP95, and S90 digital communication protocols that have been configured for the Discovery optical smoke detectors in accordance with manufacturer's instructions.	010q/03
55000-216 Series 65	Conventional ionisation smoke detector - Flashing LED (45681-200 mounting base) *Also Certificated for use with 45681-245, 45681-246, 45681-247, 45681-248 and 45681-201 mounting bases*	010q/05
55000-217 Series 65	Conventional ionisation smoke detector - Standard (45681-200 mounting base)	010q/06

Certificated Products		LPCB Ref. No.
	Also Certificated for use with 45681-245, 45681-246, 45681-247, 45681-248 and 45681-201 mounting bases	
55000-220 Series 65	Conventional integrating ionisation smoke detector - Standard (45681-200 mounting base) *Also Certificated for use with 45681-245, 45681-246, 45681-247, 45681-248 and 45681-201 mounting bases*	010q/09
55000-315 Series 65	Conventional optical smoke detector - Flashing LED/Reed switch (45681-200 mounting base) *Also Certificated for use with 45681-245, 45681-246, 45681-247, 45681-248 and 45681-201 mounting bases*	010q/10
55000-316 Series 65	Conventional optical detector - Flashing LED (45681-200 mounting base) *Also Certificated for use with 45681-245, 45681-246, 45681-247, 45681-248 and 45681-201 mounting bases*	010q/11
55000-317 Series 65	Conventional optical smoke detector - Standard (45681-200 mounting base) *Also Certificated for use with 45681-245, 45681-246, 45681-247, 45681-248 and 45681-201 mounting bases*	010q/12
55000-600 XP95	Analogue addressable optical smoke detector (45681-209 and 45681-210 mounting base) [2] *Certificated with Apollo Discovery, XP95, and S90 digital communication protocols that have been configured for the Discovery optical smoke detectors in accordance with manufacturers instructions.*	010q/18
55000-620 XP95	Analogue addressable optical smoke detector (45681-209 and 45681-210 mounting base) [2] *Certificated with Apollo Discovery, XP95, and S90 digital communication protocols that have been configured for the Discovery optical smoke detectors in accordance with manufacturers instructions.*	010q/19
55000-660 XP95	Analogue addressable optical smoke detector (45681-209 and 45681-210 mounting base)[2] *Certificated with Apollo Discovery, XP95, and S90 digital communication protocols that have been configured for the Discovery optical smoke detectors in accordance with manufacturers instructions.*	010q/21
55000-640 XP95 IS	Analogue addressable intrinsically safe optical smoke detector (45681-215 mounting base) *Certified with Apollo Series 90 and XP95 digital communications protocol*	010q/22
55000-640PRC	XP95 IS Analogue Addressable Intrinsically Safe Optical Smoke Detector (45681-215 base)Note: 1. Certified with Apollo Series 90 and XP95 digital communications protocol.	010q/22
55000-540 XP95 IS	Analogue addressable intrinsically safe ionisation smoke detector (45681-215 mounting base) *Certified with Apollo Series 90 and XP95 digital communications protocol*	010q/23
55000-540SIL	XP95 IS Analogue Addressable Intrinsically Safe Ionisation Smoke Detector (45681-215 base) Note: 1. Certified with Apollo Series 90 and XP95 digital communications protocol.	010q/23

Bases:
45681-200 Series 60 mounting base
45681-200 Series 60/65 Mounting Base
45681-201 Series 60 diode mounting base
45681-201 Series 60/65 Diode Mounting Base
45681-207 Series 60 intrinsically safe mounting base
45681-209 XP95/Discovery standard deep mounting base
45681-210 XP95 mounting base
45681-215 XP95 intrinsically safe mounting base
45681-245 Series 65 Relay mounting base
45681-246 Series 65 Auxiliary mounting base
45681-247 Series 65 EOL 12 Volt mounting base
45681-248 Series 65 EOL 24 Volt mounting base
45681-500 XPlorer standard mounting base
45681-501 XPlorer remote LED mounting base
SA5000-200 Addressable XPERT 8 Mounting Base
FL5000-200 Soteria Dimension Backbox
TimeSaver bases with Apollo Approval Reference* OB
TimeSaver LX bases with Apollo Approval Reference* OL
TimeSaver diode bases with Apollo Approval Reference* OD
TimeSaver relay bases with Apollo Approval Reference* OR
TimeSaver IS bases with Apollo Approval Reference* OB (+ATEX marking)
ORB-BA-50008 Orbis intrinsically safe adapter base (to be used in conjunction with the following bases only: 45681-207)
ORB-BA-10008-APO Orbis adaptor base (to be used in conjunction with the following bases only: 45681-200 & 45681-201)

* The Apollo 'Approval Reference Number' identifies a group of detectors that all have the same physical construction, but have features enabled or disabled via their software, and/or regional marking variations.

A copy of the certificate, confirming the full scope of approval including notes relating to the superscript references in the above table, may be viewed online by clicking on the product name in the associated entry on www.RedBookLive.com

Certificate No: 010h to EN 54-5:2017 + A1:2018, EN 54-7:2018 & CEA 4021:2003

Multi-Sensor/Multi-Criteria Detectors

Certificated Products		LPCB Ref. No.
58000-700 Discovery	Analogue addressable multisensor detector (45681-209 and 45681-210 mounting base) *Note: Certificated at the following settings.* *Mode 1 - High sensitivity smoke detector with standard heat enhancement.* *Mode 2 - Smoke detection only.* *Mode 3 - Medium sensitivity smoke detector with standard heat enhancement.* *Mode 4 - Low sensitivity smoke detector with high heat enhancement.* *Mode 5 - Class A1 heat detector.* *Also Certificated in conventional alarm modes 1, 2, 3, 4 and 5.* *Certificated with Discovery XP95 and S90 digital communication protocols that have been configured for the Discovery multisensor detector in accordance with manufacturer's instructions.*	010h/01
58000-700SIL	Discovery Analogue Addressable Multisensor Detector (45681-209 and 45681-210 bases) Notes: 1. Certified at the following settings: Mode 1 - High sensitivity smoke detector with standard heat enhancement Mode 2 - Smoke detection only Mode 3 - Medium sensitivity smoke detector with standard heat enhancement Mode 4 - Low sensitivity smoke detector with high heat enhancement Mode 5 - Class A1 heat detector Also approved in conventional alarm modes 1, 2, 3, 4 and 5 2. Approved with Apollo Discovery, XP95, and S90 digital communication protocols that have been configured for the Discovery multisensor detector in accordance with manufacturers instructions.	010h/01

Bases:
45681-209 XP95/Discovery standard deep mounting base
45681-210 XP95 mounting base
A copy of the certificate, confirming the full scope of approval including notes relating to the superscript references in the above table, may be viewed online by clicking on the product name in the associated entry on www.RedBookLive.com

Certificate No: 010an to EN 54-10: 2002 + A1:2005

Flame Detectors

Certificated Products		LPCB Ref. No.
55000-022	XP95 intelligentflame detector (45681-209 and 45681-210) *Note: Meets EN 54-10: 2002 at Class 1 and Class 3*	010an/01
55000-023	XP95 intelligent[2] flame detectorand 45681-210) *Note: Meets EN 54-10: 2002 at Class 1 and Class 3*	010an/02
55000-024	XP95 intelligent[3] flame detectorand 45681-210) *Note: Meets EN 54-10: 2002 at Class 1 and Class 3*	010an/03
55000-025	S65 conventional UV flame detector (45681-200 and 45681-201) *Note: Meets EN 54-10: 2002 at Class 1 and Class 3*	010an/04
55000-019	Conventional IR[3] Flame Detector (29600-203) *Note:* *Meets EN 54-10: 2002 at Class 1 only*	010an/05
55000-060	Conventional IR² Flame Detector (29600-203) *Note:* *Meets EN 54-10: 2002 at Class 1 only*	010an/06
55000-061	Conventional IR² (Exd) Flameproof Flame Detector (29600-203) *Note:* *Meets EN 54-10: 2002 at Class 1 only*	010an/07
55000-062	Conventional IR[3] (Exd) Flameproof Flame Detector (29600-203) *Note:* *Meets EN 54-10: 2002 at Class 1 only*	010an/08
55000-063	Conventional IR[3] Intrinsically Safe Flame Detector (29600-203) *Note:* *Meets EN 54-10: 2002 at Class 1 only*	010an/09
55000-064	Conventional UV/IR[2] Flame Detector (29600-203) *Note:* *Meets EN 54-10: 2002 at Class 1 only*	010an/10

Certificated Products		LPCB Ref. No.
55000-065	Conventional UV/IR [2] (Exd) Flameproof Flame Detector (29600-203) *Note:* *Meets EN 54-10: 2002 at Class 1 only*	010an/11
55000-020	Analogue Addressable IR [3] Flame Detector (29600-203) *Note:* *Meets EN 54-10:2002 at Class 1 only*	010an/13
55000-021	Analogue Addressable IR [3] (Exd) Flameproof Flame Detector (29600-203) *Note:* *Meets EN 54-10:2002 at Class 1 only*	010an/14
55000-280	Analogue Addressable IR [2] Flame Detector (29600-203) *Note:* *Meets EN 54-10:2002 at Class 1 only*	010an/15
55000-295	Analogue Addressable IR [2] (Exd) Flameproof Flame Detector (29600-203) *Note:* *Meets EN 54-10:2002 at Class 1 only*	010an/16

Bases

45681-200	Mounting Base
45681-201	Mounting Base with Diode
45681-209	Deep Base
45681-210	Mounting Base
29600-203	Adjustable Mounting Base

Ancillaries
29600-203 Mounting Bracket

A copy of the certificate, confirming the full scope of approval including notes relating to the superscript references in the above table, may be viewed online by clicking on the product name in the associated entry on www.RedBookLive.com

Certificate No: 010aq to LPS 1274: 2005, EN 54-5: 2017 + A1: 2018 and LPS 1265: 2004

Multi-Sensor/Multi-Criteria Detectors

Certificated Products		LPCB Ref. No.
58000-305	Analogue addressable CO/heat multisensor detector (45681-210, standard intelligent mounting base) *Notes:* *1. Approved with the following mode configurations:-* *Mode 1 30 ppm with high thermal enhancement (most sensitive)* *Mode 2 33 ppm with CO only* *Mode 3 40 ppm with low thermal enhancement (nominal sensitivity)* *Mode 4 45 ppm with high thermal enhancement (least sensitive)* *Mode 5 heat only Category A1R* *2. Mode 1 , 3, and 4 are approved to LPS1274:2005 and EN 54-5* *3. Mode 2 is approved to LPS 1265:2004* *4. Mode 5 is approved to EN 54-5* *Conditions of approval include;* *a) The 58000-305 should only be installed in accordance with the manufacturer's recommendations.* *b) The 58000-305 should not be set only as a carbon monoxide fire detector where there is a specific risk of rapid burning/flaming fires.* *c) Refer to technical publication PP2382 for limitations on the use of carbon monoxide fire detection.*	010aq/01

Base:
45681-210 Standard intelligent mounting base
A copy of the certificate, confirming the full scope of approval including notes relating to the superscript references in the above table, may be viewed online by clicking on the product name in the associated entry on www.RedBookLive.com

Certificate No: 010at to EN 54-17: 2005

Isolating base

Certificated Products		LPCB Ref. No.
45681-505	Negative switching isolating base	010at/01

A copy of the certificate, confirming the full scope of approval including notes relating to the superscript references in the above table, may be viewed online by clicking on the product name in the associated entry on www.RedBookLive.com

Certificate No: 010ar to EN 54-5: 2000 + A1: 2002

Heat Detectors

Certificated Products		LPCB Ref. No.
55000-465	Analogue addressable Classheat detector (45681-200 , 45681-213 and 45681-505 mounting bases)	010ar/01
55000-475	Analogue addressable Classheat detector (45681-200 , 45681-213 and 45681-505 mounting bases)	010ar/02

Bases:
45681-200 Mounting base
45681-213 Common mounting base
45681-505 Negative switching isolating base

A copy of the certificate, confirming the full scope of approval including notes relating to the superscript references in the above table, may be viewed online by clicking on the product name in the associated entry on www.RedBookLive.com

Certificate No: 010p to EN 54-5: 2017 + A1: 2018

Heat Detectors

Certificated Products		LPCB Ref. No.
58000-400	Discovery Analogue addressable heat detector (45681-209 and 45681-210 mounting base) Note: Meets the requirements of EN 54: Part 5 for the following settings Category A1R in mode 1 and in conventional mode. Category A2 in mode 2 and in conventional mode. Category A2S in mode 3 and in conventional mode. Category CR in mode 4 and in conventional mode. Category CS in mode 5 and in conventional mode. Certificated with Apollo, Discovery, XP95 and S90 digital communication protocols when the Discovery heat detector has been configured in accordance with manufacturer's instructions.	010p/03
58000-400SIL	Discovery Analogue Addressable Heat Detector (45681-209 and 45681-210 bases) Notes: 1. Meets the requirements of EN54: Part 5 at the following modes: - Category A1R in mode 1 and in conventional mode - Category A2 in mode 2 and in conventional mode - Category A2S in mode 3 and in conventional mode - Category CR in mode 4 and in conventional mode - Category CS in mode 5 and in conventional mode 2. Certified with Apollo Discovery, XP95, and S90 digital communications protocols configured for the Discovery Heat Detector in accordance with manufacturers instructions.	010p/03
55000-121	Series 65 Conventional Category A1R heat detector - Flashing LED (45681-200 mounting base) Note: Meets the requirements of EN 54: Part 5 - Category A1R Also Certificated for use with 45681-245, 45681-246, 45681-247, 45681-248 and 45681-201 mounting bases	010p/05
55000-122	Series 65 Conventional Category A1R heat detector - Standard (45681-200 mounting base) Note: Meets the requirements of EN 54: Part 5 - Category A1R Also Certificated for use with 45681-245, 45681-246, 45681-247, 45681-248 and 45681-201 mounting bases	010p/06
55000-126	Series 65 Conventional Category BR heat detector - Flashing LED (45681-200 mounting base) Note: Meets the requirements of EN 54: Part 5 - Category BR Also Certificated for use with 45681-245, 45681-246, 45681-247, 45681-248 and 45681-201 mounting bases	010p/08
55000-127	Series 65 Conventional Category BR heat detector - Standard (45681-200 mounting base)	010p/09

Certificated Products		LPCB Ref. No.
	Note: Meets the requirements of EN 54: Part 5 - Category BR Also Certificated for use with 45681-245, 45681-246, 45681-247, 45681-248 and 45681-201 mounting bases	
55000-131	Series 65 Conventional Category CR heat detector - Flashing LED (45681-200 mounting base) Note: Meets the requirements of EN 54: Part 5 - Category CR Also Certificated for use with 45681-245, 45681-246, 45681-247, 45681-248 and 45681-201 mounting bases	010p/11
55000-132	Series 65 Conventional Category CR heat detector - Standard (45681-200 mounting base) Note: Meets the requirements of EN 54: Part 5 - Category CR Also Certificated for use with 45681-245, 45681-246, 45681-247, 45681-248 and 45681-201 mounting bases	010p/12
55000-136	Series 65 Conventional Category CS heat detector - Flashing LED (45681-200 mounting base) Note: Meets the requirements of EN 54: Part 5 - Category CS Also Certificated for use with 45681-245, 45681-246, 45681-247, 45681-248 and 45681-201 mounting bases	010p/14
55000-137	Series 65 Conventional Category CS heat detector - Standard (45681-200 mounting base) Note: Meets the requirements of EN 54: Part 5 - Category CS Also Certificated for use with 45681-245, 45681-246, 45681-247, 45681-248 and 45681-201 mounting bases	010p/15
55000-400	XP95 Analogue addressable Category A2S heat detector (45681-209 and 45681-210 mounting base) Certificated with Apollo Discovery, XP95, and S90 digital communications protocols configured for the Discovery heat detector in accordance with manufacturers instructions.	010p/20
55000-401	XP95 Analogue addressable Category CS heat detector (45681-209 and 45681-210 mounting base) Certificated with Apollo Discovery, XP95, and S90 digital communications protocols configured for the Discovery heat detector in accordance with manufacturers instructions.	010p/21
55000-420PRC	XP95 Analogue Addressable Category A2S Heat Detector (45681-209 and 45681-210 bases) Notes: 1. Meets the requirements of EN54: Part 5 at Category A2S 2. Certified with Apollo Discovery, XP95, and S90 digital communications protocols configured for the Discovery Heat Detector in accordance with manufacturers instructions.	010p/22
55000-440	XP95 IS Analogue addressable intrinsically safe Category A2S heat detector (45681-215 mounting base) Certified with Apollo Series 90 and XP95 digital communications protocol	010p/23
55000-440PRC	XP95 IS Analogue Addressable Intrinsically Safe Category A2S Heat Detector (45681-215 base) Notes: 1. Meets the requirements of EN54: Part 5 at Category A2S. 2. Certified with Apollo Series 90 and XP95 digital communications protocols.	010p/23

Bases:
45681-200 Series 60 mounting base
45681-200 Series 60/65 Mounting Base
45681-201 Series 60 diode mounting base
45681-201 Series 60/65 Diode Mounting Base
45681-207 Series 60 intrinsically safe mounting base
45681-209 XP95/Discovery standard deep mounting base
45681-210 XP95 mounting base
45681-215 XP95 intrinsically safe mounting base
45681-245 Series 65 Relay mounting base
45681-246 Series 65 Auxiliary relay mounting base
45681-247 Series 65 EOL 12 Volt mounting base
45681-248 Series 65 EOL 24 Volt mounting base
SA5000-200 Addressable XPERT 8 Mounting Base
TimeSaver bases with Apollo Approval Reference* OB
TimeSaver LX bases with Apollo Approval Reference* OL
TimeSaver diode bases with Apollo Approval Reference* OD
TimeSaver relay bases with Apollo Approval Reference* OR
TimeSaver IS bases with Apollo Approval Reference* OB (+ATEX marking)
TimeSaver deep bases with Apollo Approval Reference*
EB: ORB-MB-00019-APO TimeSaver deep base
ORB-BA-50008 Orbis intrinsically safe adapter base (to be used in conjunction with the following bases only: 45681-207)
ORB-BA-10008-APO Orbis adaptor base (to be used in conjunction with the following bases only: 45681-200 & 45681-201)

53832-070 Remote LED
SA5000-200 XPERT 8 Base
45681-142 XP95 Base Sounder VAD
53832-070 Remote LED

* The Apollo 'Approval Reference Number' identifies a group of detectors that all have the same physical construction, but have features enabled or disabled via their software, and/or regional marking variations.

A copy of the certificate, confirming the full scope of approval including notes relating to the superscript references in the above table, may be viewed online by clicking on the product name in the associated entry on www.RedBookLive.com

Certificate No: 010bd to EN 54-5:2017 + A1:2018 and EN 54-17: 2005

Heat Detectors

Certificated Products		**LPCB Ref. No.**
SA5100-400	Soteria Analogue Addressable Class P Heat Detector with Short Circuit Isolator (SA5000-200 and 45681-210 bases) Note: Meets requirements of EN 54-5: 2000 + A1: 2002 for classes A1R, A2R, A2S, CR, CS, BR and BS.	010bd/01
SA5100-400LIM	Soteria Analogue Addressable Class P Heat Detector with Short Circuit Isolator (SA5000-200 and 45681-210 bases) Note: Meets requirements of EN 54-5: 2000 + A1: 2002 for classes A1R, A2R, A2S, CR, CS, BR and BS.	010bd/01

Bases:
45681-210 XP95 mounting base
SA5000-200 Addressable XPERT 8 Mounting Base

A copy of the certificate, confirming the full scope of approval including notes relating to the superscript references in the above table, may be viewed online by clicking on the product name in the associated entry on www.RedBookLive.com

Certificate No: 010bg to EN 54-5: 2017 + A1: 2018

Heat Detectors

Certificated Products		**LPCB Ref. No.**
SA5000-400	Soteria Analogue Addressable Category P Heat Detector (SA5000-200 and 45681-210 bases) Note: Meets requirements of EN 54-5 for categories A1R, A2R, A2S, CR, CS, BR and BS.	010bg/01

Bases:
45681-210 XP95 mounting base
SA5000-200 Addressable XPERT 8 Mounting Base

A copy of the certificate, confirming the full scope of approval including notes relating to the superscript references in the above table, may be viewed online by clicking on the product name in the associated entry on www.RedBookLive.com

Certificate No: 010bp to EN 54-5:2017 + A1:2018, EN 54-7:2018, EN 54-31:2014, EN 54-17:2005

Heat Detectors

Certificated Products		**LPCB Ref. No.**
SA5100-810	Soteria Tri-Sensor Detector (Dual Optical/Heat/CO) (SA5000-200, 45681-142, 45681-210 bases) Notes: 1. Meets the requirements of EN 54-5 for the following setting: - Mode 1: High sensitivity - (Category A1R) - Mode 2: Clean environments - (Category A1R) 2. Certified at the following sensitivity settings for EN 54-7: - Mode 1: High sensitivity - Mode 2: Clean environments 3. Certified at the following settings for EN 54-31: - Mode 1: High sensitivity - Mode 2: Clean environments - Mode 3: General purpose - Mode 4: Harsh environments - Mode 5: Low sensitivity	010bp/01

Certificated Products		LPCB Ref. No.
	- Fixed for CO	

Bases:

SA5000-200	Addressable XPERT 8 Mounting Base
45681-142	XP95 Base Sounder VAD
45681-210	XP95 mounting base
53832-070	Remote LED

A copy of the certificate, confirming the full scope of approval including notes relating to the superscript references in the above table, may be viewed online by clicking on the product name in the associated entry on www.RedBookLive.com

Certificate No: 010bq to EN 54-5:2017 + A1:2018, EN 54-7:2018, EN 54-29:2015 & EN 54-17:2005

Heat Detectors

Certificated Products		LPCB Ref. No.
SA5100-710	Soteria Multi-Sensor Detector (Dual Optical/Heat) (SA5000-200, 45681-142, 45681-210 bases) Notes: 1. Meets the requirements of EN 54-5 for the following setting: - Category A1R 2. Certified at the following sensitivity settings for EN 54-7: - Mode 1: High smoke sensitivity - Multi-sensor - Mode 2: Normal smoke sensitivity - Optical - Mode 3: Normal smoke sensitivity - Multi-sensor - Mode 4: Low smoke sensitivity - Multi-sensor - Mode 5: Heat A1R 3. Certified at the following settings for EN 54-29: - Mode 4: Multi-sensor	010bq/01
SA5100-720	Soteria Multi-Sensor Detector (Dual Optical/Heat) (SA5000-200, 45681-142, 45681-210 bases) Notes: 1. Meets the requirements of EN 54-5 for the following setting: - Category A1R 2. Certified at the following sensitivity settings for EN 54-7: - Mode 1: High smoke sensitivity - Multi-sensor - Mode 2: Normal smoke sensitivity - Optical - Mode 3: Normal smoke sensitivity - Multi-sensor - Mode 4: Low smoke sensitivity - Multi-sensor - Mode 5: Heat A1R 3. Certified at the following settings for EN 54-29: - Mode 4: Multi-sensor	010bq/02

Bases:

SA5000-200	Addressable XPERT 8 Mounting Base
45681-142	XP95 Base Sounder VAD
45681-210	XP95 mounting base
53832-070	Remote LED

A copy of the certificate, confirming the full scope of approval including notes relating to the superscript references in the above table, may be viewed online by clicking on the product name in the associated entry on www.RedBookLive.com

Certificate No: 010s to EN 54-7: 2018

Smoke Detectors

Certificated Products		LPCB Ref. No.
Orbis Optical Smoke Detector Range	Optical Smoke Detector Range (Approved for use with base styles OB, OL, OD, OR, EB, XL and ORB-BA-10008-APO adaptor base) ORB-OP-12001-APO Orbis Optical Smoke Detector with SensAlert, FasTest and DirtAlert ORB-OP-12003-APO Orbis Optical Smoke Detector with Flashing LED, SensAlert, FasTest and DirtAlert ORB-OP-12003-PRC Orbis Optical Smoke Detector with Flashing LED, SensAlert, FasTest and DirtAlert	010s/01
Orbis IS	Intrinsically safe optical smoke detectors with Apollo Approval Reference* 50007 (Approved for use with base styles OB (+ATEX marking) and ORB-BA-50008-APO adapter base) ORB-OP-52027-APO Orbis intrinsically safe optical smoke detector with SensAlert,	010s/02

Certificated Products		LPCB Ref. No.
	FasTest and DirtAlert ORB-OP-52028-APO Orbis intrinsically safe optical smoke detector with Flashing LED, SensAlert, FasTest and DirtAlert ORB-OP-52028-PRC Orbis intrinsically safe optical smoke detector with Flashing LED, SensAlert, FasTest and DirtAlert	

Bases:
TimeSaver bases with Apollo Approval Reference* OB
TimeSaver LX bases with Apollo Approval Reference* OL
TimeSaver diode bases with Apollo Approval Reference* OD
TimeSaver relay bases with Apollo Approval Reference* OR
TimeSaver IS bases with Apollo Approval Reference* OB (+ATEX marking)
ORB-BA-50008 Orbis intrinsically safe adapter base (to be used in conjunction with the following bases only: 45681-207)
ORB-BA-10008-APO Orbis adaptor base (to be used in conjunction with the following bases only: 45681-200 & 45681-201)

* The Apollo 'Approval Reference Number' identifies a group of detectors that all have the same physical construction, but have features enabled or disabled via their software, and/or regional marking variations.

A copy of the certificate, confirming the full scope of approval including notes relating to the superscript references in the above table, may be viewed online by clicking on the product name in the associated entry on www.RedBookLive.com

Certificate No: 010bc to EN 54-7:2018 and EN 54-17: 2005

Smoke Detectors

Certificated Products		LPCB Ref. No.
SA5100-600	Soteria Analogue Addressable Optical Smoke Detector with Short Circuit Isolator (SA5000-200 and 45681-210 bases) Certified at the following settings: Mode 1: High sensitivity smoke detector with fast response time Mode 2: High sensitivity smoke detector with standard response time Mode 3: Standard smoke sensitivity with fast response time Mode 4: Standard smoke sensitivity with standard response time Mode 5: Medium-Low sensitivity smoke detector with fast response time	010bc/01
SA5100-600LIM	Soteria Analogue Addressable Optical Smoke Detector with Short Circuit Isolator (SA5000-200 and 45681-210 bases) Certified at the following settings: Mode 1: High sensitivity smoke detector with fast response time Mode 2: High sensitivity smoke detector with standard response time Mode 3: Standard smoke sensitivity with fast response time Mode 4: Standard smoke sensitivity with standard response time Mode 5: Medium-Low sensitivity smoke detector with fast response time	010bc/01

Bases:
45681-210 XP95 mounting base
SA5000-200 Addressable XPERT 8 Mounting Base

A copy of the certificate, confirming the full scope of approval including notes relating to the superscript references in the above table, may be viewed online by clicking on the product name in the associated entry on www.RedBookLive.com

Certificate No: 010bf to EN 54-7: 2018

Smoke Detectors

Certificated Products		LPCB Ref. No.
SA5000-600	Soteria Analogue Addressable Optical Smoke Detector (SA5000-200 and 45681-210 bases) Certified at the following settings: Mode 1: High sensitivity smoke detector with fast response time Mode 2: High sensitivity smoke detector with standard response time Mode 3: Standard smoke sensitivity with fast response time Mode 4: Standard smoke sensitivity with standard response time Mode 5: Medium-Low sensitivity smoke detector with fast response time	010bf/01

Bases:
SA5000-200 Addressable XPERT 8 Mounting Base

45681-210 XP95 mounting base
A copy of the certificate, confirming the full scope of approval including notes relating to the superscript references in the above table, may be viewed online by clicking on the product name in the associated entry on www.RedBookLive.com

Certificate No: 010bk to EN 54-7:2018 & EN 54-17:2005

Smoke Detectors

Certificated Products		LPCB Ref. No.
FL6100-600	Soteria Dimension Specialist Optical Detector (FL5000-200)	010bk/01
FL5100-600	Soteria Dimension Optical Detector (FL5000-200) Note: 1. Soteria Dimension Optical Faceplate Accessory Black (43785-345)	010bk/02
FL5100-660	Soteria Dimension Optical Detector Black (FL5000-200) Note: 1. Soteria Dimension Optical Faceplate Accessory Black (43785-345)	010bk/03

Bases:
FL5000-200 Soteria Dimension Backbox

A copy of the certificate, confirming the full scope of approval including notes relating to the superscript references in the above table, may be viewed online by clicking on the product name in the associated entry on www.RedBookLive.com

Certificate No: 010m to EN 54-7:2018 and CEA 4021: 2003

Multi-Sensor/Multi-Criteria Detectors

Certificated Products		LPCB Ref. No.
55000-885	XP95 Analogue addressable multisensor detector (45681-209 and 45681-210 mounting base) Certificated with Apollo, Discovery, XP95 and S90 digital communication protocols that have been configured for the Discovery multisensor detector in accordance with manufacturer's instructions.	010m/01

Bases:
45681-209 XP95/Discovery standard deep mounting base
45681-210 XP95 mounting base
A copy of the certificate, confirming the full scope of approval including notes relating to the superscript references in the above table, may be viewed online by clicking on the product name in the associated entry on www.RedBookLive.com

Certificate No: 010t to EN 54-7: 2018 & CEA 4021: 1999-06

Multi-Sensor/Multi-Criteria Detectors

Certificated Products		LPCB Ref. No.
Orbis	Multisensor smoke detectors with Apollo Approval Reference* 00008 (Approved for use with base styles OB, OL, OD, OR, EB and ORB-BA-10008-APO adaptor base) ORB-OH-13001-APO Orbis multisensor smoke detector with SensAlert, FasTest and DirtAlert ORB-OH-13003-APO Orbis multisensor smoke detector with Flashing LED, SensAlert, FasTest and DirtAlert	010t/01
Orbis IS	Intrinsically safe multisensor detectors with Apollo Approval Reference* 50008 (Approved for use with base styles OB (+ATEX marking) and ORB-MB-50008-APO adapter base) ORB-OH-53027-APO Orbis intrinsically safe multisensor detector with SensAlert, FasTest and DirtAlert ORB-OH-53028-APO Orbis intrinsically safe multisensor detector with Flashing LED, SensAlert, FasTest and DirtAlert	010t/02

Bases:
TimeSaver bases with Apollo Approval Reference* OB
TimeSaver LX bases with Apollo Approval Reference* OL
TimeSaver diode bases with Apollo Approval Reference* OD
TimeSaver relay bases with Apollo Approval Reference* OR
TimeSaver IS bases with Apollo Approval Reference* OB (+ATEX marking)
ORB-BA-50008 Orbis intrinsically safe adapter base (to be used in conjunction with the following bases only: 45681-207)
ORB-BA-10008-APO Orbis adaptor base (to be used in conjunction with the following bases only: 45681-200 & 45681-201)

* The Apollo 'Approval Reference Number' identifies a group of detectors that all have the same physical construction, but have features enabled or disabled via their software, and/or regional marking variations.

A copy of the certificate, confirming the full scope of approval including notes relating to the superscript references in the above table, may be viewed online by clicking on the product name in the associated entry on www.RedBookLive.com

Certificate No: 010bb to EN 54-5:2017 + A1:2018, EN 54-7:2018, EN 54-17: 2005 and CEA 4021: 2003

Multi-Sensor/Multi-Criteria Detectors

Certificated Products		**LPCB Ref. No.**
SA5100-700	Soteria Analogue Addressable Class A1R Optical Smoke/Heat Detector with Short Circuit Isolator (SA5000-200 and 45681-210 bases) Certified at the following settings: Mode 1: High sensitivity smoke detector with high heat enhancement Mode 2: Standard smoke sensitivity only Mode 3: Medium sensitivity smoke detector with medium heat enhancement Mode 4: Low sensitivity smoke detector with high heat enhancement Mode 5: Class A1R heat detector	010bb/01
SA5100-700LIM	Soteria Analogue Addressable Class A1R Optical Smoke/Heat Detector with Short Circuit Isolator (SA5000-200 and 45681-210 bases) Certified at the following settings: Mode 1: High sensitivity smoke detector with high heat enhancement Mode 2: Standard smoke sensitivity only Mode 3: Medium sensitivity smoke detector with medium heat enhancement Mode 4: Low sensitivity smoke detector with high heat enhancement Mode 5: Class A1R heat detector	010bb/01
SA5100-760	Soteria Analogue Addressable Class A1R Optical Smoke/Heat Detector with Short Circuit Isolator (Black body) (SA5000-200, 45681-210 and SA5000-204 bases) Certified at the following settings: Mode 1: High sensitivity smoke detector with high heat enhancement Mode 2: Standard smoke sensitivity only Mode 3: Medium sensitivity smoke detector with medium heat enhancement Mode 4: Low sensitivity smoke detector with high heat enhancement Mode 5: Class A1R heat detector	010bb/02

Bases:
45681-210 XP95 mounting base
SA5000-200 Addressable XPERT 8 Mounting Base
SA5000-204 XPERT 8 Base - Black

A copy of the certificate, confirming the full scope of approval including notes relating to the superscript references in the above table, may be viewed online by clicking on the product name in the associated entry on www.RedBookLive.com

Certificate No: 010be to EN 54-5: 2017 + A1: 2018, EN 54-7: 2018 and CEA 4021: 2003

Multi-Sensor/Multi-Criteria Detectors

Certificated Products		**LPCB Ref. No.**
SA5000-700	Soteria Analogue Addressable Category A1R Optical Smoke/Heat Detector (SA5000-200 and 45681-210 bases) Certified at the following settings: Mode 1: High sensitivity smoke detector with high heat enhancement Mode 2: Standard smoke sensitivity only Mode 3: Medium sensitivity smoke detector with medium heat enhancement Mode 4: Low sensitivity smoke detector with high heat enhancement Mode 5: Category A1R heat detector	010be/01

Bases:
45681-210 XP95 mounting base
SA5000-200 Addressable XPERT 8 Mounting Base

A copy of the certificate, confirming the full scope of approval including notes relating to the superscript references in the above table, may be viewed online by clicking on the product name in the associated entry on www.RedBookLive.com

Certificate No: 010bm to EN 54-5:2017 + A1:2018, EN 54-7:2018 & EN 54-29:2015

Multi-Sensor/Multi-Criteria Detectors

Certificated Products		LPCB Ref. No.
58000-701	Analogue Addressable Multisensor Detector (45681-210) Notes: 1. Certified at the following settings for EN 54-29: Mode 1 - Multisensor 2. Certified at the following settings for EN 54-7: Mode 2 - Optical Mode 3 - Multisensor Mode 4 Multisensor 3. Certified at the following settings for EN 54-5: Mode 5 Heat A1R Also approved in conventional alarm modes 1, 2, 3, 4 and 5 4. Approved with Apollo Discovery, XP95, and S90 digital communication protocols that have been configured for the Discovery multisensor detector in accordance with manufacturer's instructions.	010bm/01

Bases:
45681-210 XP95 mounting base

A copy of the certificate, confirming the full scope of approval including notes relating to the superscript references in the above table, may be viewed online by clicking on the product name in the associated entry on www.RedBookLive.com

---

Argus Security S.r.l.

Via del Canneto 14, Valle delle Noghere, 34015 Muggia, Trieste, Italy
Tel: +39 (0) 402821110 • Fax: +39 (0) 402823483
E-mail: dcresseri@argussecurity.it • Website: www.argussecurity.it

Certificate No: 928a to EN 54-5: 2017 + A1: 2018 and EN 54 -17: 2005

Point Heat Detectors

Certificated Products		LPCB Ref. No.
A3500	Addressable Category P heat detector with short-circuit isolator (LAB100 base) *Note:* *1. Meets the requirements of EN 54-5 for Category A1R, Category B and Category BS*	928a/02

Bases

VB100	Vega adaptor mounting base (with link resistor)
UB100	Universal adaptor mounting base
VB100S	Vega adaptor base with shorting clip
UB100S	Universal adaptor base with shorting clip
VDBS100	Vega deep adaptor base
DBS100	Deep adaptor base
VDBS100S	Vega deep adaptor base with shorting clip
DBS100S	Deep adaptor base with shorting clip
UBR100	Universal adaptor base with resistor
DBSR100	Deep adaptor base with resistor
UBDR100	Universal adaptor base with resistor and Schottky diode
DBSRD100	Deep adaptor base with resistor and Schottky diode
LAB100	Standard mounting base
LAB1000	Low profile adaptor base

A copy of the certificate, confirming the full scope of approval including notes relating to the superscript references in the above table, may be viewed online by clicking on the product name in the associated entry on www.RedBookLive.com

Certificate No: 928b to EN 54-7: 2018 and EN 54-17: 2005

Point Smoke Detectors

Certificated Products		LPCB Ref. No.
A1000	Addressable photoelectric smoke detector with short-circuit isolator (LAB100 base)	928b/02

Certificated Products **LPCB Ref. No.**

Notes:

1. *Meets the requirements of EN 54-7 at the following sensitivity settings:*
   Optical only level 1 - High
   Optical only level 2
   Optical only level 3
   Optical only level 4 - Low

Bases

VB100	Vega adaptor mounting base (with link resistor)
UB100	Universal adaptor mounting base
VB100S	Vega adaptor base with shorting clip
UB100S	Universal adaptor base with shorting clip
VDBS100	Vega deep adaptor base
DBS100	Deep adaptor base
VDBS100S	Vega deep adaptor base with shorting clip
DBS100S	Deep adaptor base with shorting clip
UBR100	Universal adaptor base with resistor
DBSR100	Deep adaptor base with resistor
UBDR100	Universal adaptor base with resistor and Schottky diode
DBSRD100	Deep adaptor base with resistor and Schottky diode
LAB100	Standard mounting base
LAB1000	Low profile adaptor base
WAB100	Wireless adaptor base

A copy of the certificate, confirming the full scope of approval including notes relating to the superscript references in the above table, may be viewed online by clicking on the product name in the associated entry on www.RedBookLive.com

Certificate No: 928c to EN 54-5: 2017+ A1: 2018, EN 54-7: 2018, EN 54 -17: 2005 & CEA 4021: 2003

Multisensor Detectors

Certificated Products **LPCB Ref. No.**

A2000 — Addressable multi-criteria detector with short-circuit isolator (LAB100 base) — 928c/02

Notes:

1. Meets the requirements of EN 54-5 (Category A1) & EN 54-7 at the following settings:
Multi Criteria Level 1 (most sensitive) - Thermally enhanced smoke detection with Category A1 heat response
Multi Criteria Level 2 - Thermally enhanced smoke detection with Category A1 heat response
Multi Criteria Level 3 - Thermally enhanced smoke detection with Category A1 heat response
Multi Criteria Level 4 (least sensitive) - Thermally enhanced smoke detection with Category A1 heat response
2. Meets the requirements of EN 54-5 (Category A1R) at the following settings:
Category A1R heat only response
3. Meets the requirements of EN 54-7 at the following sensitivity settings:
Optical only level 1 - High
Optical only level 2
Optical only level 3
Optical only level 4 - Low

Bases

VB100	Vega adaptor mounting base (with link resistor)
UB100	Vega universal mounting base
VB100S	Vega adaptor base with shorting clip
UB100S	Universal adaptor base with shorting clip
VDBS100	Vega deep adaptor base
DBS100	Deep adaptor base
VDBS100S	Vega deep adaptor base with shorting clip
DBS100S	Deep adaptor base with shorting clip
LAB100	Standard mounting base
LAB1000	Low profile adaptor base
WAB100	Wireless adaptor base

A copy of the certificate, confirming the full scope of approval including notes relating to the superscript references in the above table, may be viewed online by clicking on the product name in the associated entry on www.RedBookLive.com

Certificate No: 928j to EN 54-5: 2017 + A1: 2018 and EN 54-25: 2008

Heat Detectors

Certificated Products		**LPCB Ref. No.**
L-HT-SG	Wireless Libra Addressable Category P Heat Detector (WAB100 Base) *Notes:* *1. Meets the requirements of EN 54-5 for Category A1R and BS* *2. The device must be used with the following battery type only: CR123A (3 Vdc) - Primary and Secondary Battery*	928j/02

Bases
WAB100 Wireless Adaptor Base

A copy of the certificate, confirming the full scope of approval including notes relating to the superscript references in the above table, may be viewed online by clicking on the product name in the associated entry on www.RedBookLive.com

Certificate No: 928k to EN 54-7: 2018 and EN 54-25: 2008

Smoke Detectors

Certificated Products		**LPCB Ref. No.**
L-OP-SG	Wireless Libra Addressable Optical Smoke Detector (WAB100 Base) Notes: 1. Meets the requirements of EN 54-7 at the following sensitivity settings: Level 1 - High Level 2 - Normal Level 3 - Low 2. The device must be used with the following battery type only: CR123A (3 Vdc) - Primary and Secondary Battery	928k/02

Bases
WAB100 Wireless Adaptor Base

Certificate No: 928m to EN 54-5: 2017 + A1: 2018, EN 54-7: 2018, EN 54-25: 2008 and CEA 4021: 2003

Multi-Criteria Detectors

Certificated Products		**LPCB Ref. No.**
L-MC-SG	Wireless Libra Addressable Multicriteria Detector (WAB100 Base) *Notes:* *1. Meets the requirements of EN 54-5 for Category A1R* *2. Meets the requirements of EN 54-7 at the following sensitivity settings:* *Level 1 - High* *Level 2 - Normal* *Level 3 - Low* *3. The device must be used with the following battery type only: CR123A (3 Vdc) - Primary and Secondary Battery*	928m/02

Bases
WAB100 Wireless Adaptor Base

Certificate No: 928aj to EN 54-5: 2017 + A1: 2018, EN 54-7:2018, EN 54-25: 2008 , EN 54-31:2014 + A1: 2016

Certificated Products		**LPCB Ref. No.**
LW-DMCO-01	Libra Wireless Addressable Multi Criteria Smoke, Heat and CO Detector. *Notes:* *1. Meets the requirements of EN 54-31 and EN 54- 5 depending on the specific classification setting at classes A1R and BS.* *2. Meets the requirements of EN 54-31 and EN 54-7 at all classification settings.* *Classification Settings:* *L0 – Harsh smoke profile; smoke profile number 0; heat classification BS.* *L1 – Harsh smoke profile; smoke profile number 1; heat classification A1R.* *L2 – Harsh smoke profile; smoke profile number 2; heat classification A1R.* *L3 – Harsh smoke profile; smoke profile number 3; heat classification A1R.*	928aj/01

Certificated Products		LPCB Ref. No.
	N0 – Normal smoke profile; smoke profile number 0; heat classification A1R. *N1 – Normal smoke profile; smoke profile number 1; heat classification A1R.* *N2 – Normal smoke profile; smoke profile number 2; heat classification A1R.* *N3 – Normal smoke profile; smoke profile number 3; heat classification A1R.* *H0 – Clean smoke profile; smoke profile number 0; heat classification A1R.* *H1 – Clean smoke profile; smoke profile number 1; heat classification A1R.* *H2 – Clean smoke profile; smoke profile number 2; heat classification A1R.* *H3 – Clean smoke profile; smoke profile number 3; heat classification A1R.*	

Base
WAB100
A copy of the certificate, confirming the full scope of approval including notes relating to the superscript references in the above table, may be viewed online by clicking on the product name in the associated entry on www.RedBookLive.com

Certificate No: 928d to EN 54-5:2017+A1:2018

Certificated Products		LPCB Ref. No.
S3500	Conventional Category P Heat Detector (UB100, DBS100, UBR100, DBSR100, UBDR100 and DBSRD100 Bases) Note: 1. Meets the requirements of EN 54-5 for Category A1R and Category B	928d/02
A3500L	Altair Lite Addressable Category P Heat Detector (LAB1000 Base) Note: 1. Meets the requirements of EN 54-5 for Category A1R, Category B and Category BS	928d/03

Bases

UB100 Universal Adaptor Base
DBS100 Deep Adaptor Base
UBR100 Universal Adaptor Base with Resistor
DBSR100 Deep Adaptor Base with Resistor
UBDR100 Universal Adaptor Base with Resistor and Schottky
DBSRD100 Deep Adaptor Base with Resistor and Schottky Diode
LAB1000 Low Profile Adaptor Base

A copy of the certificate, confirming the full scope of approval including notes relating to the superscript references in the above table, may be viewed online by clicking on the product name in the associated entry on www.RedBookLive.com

Certificate No: 928e to EN 54-7:2018

Certificated Products		LPCB Ref. No.
S1000	Conventional Photoelectric Smoke Detector (UB100, DBS100, UBR100, DBSR100, UBDR100 and DBSRD100 Bases)	928e/02
A1000L	Altair Lite Addressable Photoelectric Smoke Detector (LAB1000 Base) Note: 1. Meets the requirements of EN 54-7 at the following sensitivity settings: Optical only level 1 - High Optical only level 2 Optical only level 3 Optical only level 4 – Low	928e/03

Bases

UB100	Universal Adaptor Base
DBS100	Deep Adaptor Base
UBR100	Universal Adaptor Base with Resistor
DBSR100	Deep Adaptor Base with Resistor
UBDR100	Universal Adaptor Base with Resistor and Schottky Diode
DBSRD100	Deep Adaptor Base with Resistor and Schottky Diode
LAB1000	Low Profile Adaptor Base

A copy of the certificate, confirming the full scope of approval including notes relating to the superscript references in the above table, may be viewed online by clicking on the product name in the associated entry on www.RedBookLive.com

Certificate No: 928k to EN 54-7:2018, EN 54-25:2008

Certificated Products		LPCB Ref. No.
L-OP-SG	Wireless Libra Addressable Optical Smoke Detector (WAB100 Base) Notes: 1. Meets the requirements of EN 54-7 at the following sensitivity settings: Level 1 - High Level 2 - Normal Level 3 - Low 2. The device must be used with the following battery type only: CR123A (3 Vdc) - Primary and Secondary Battery	928k/02

Base

WAB100-Wireless Adaptor Base

A copy of the certificate, confirming the full scope of approval including notes relating to the superscript references in the above table, may be viewed online by clicking on the product name in the associated entry on www.RedBookLive.com

Certificate No: 928f to EN 54-5:2017 + A1:2018, EN 54-7:2018, CEA 4021:2003

Certificated Products		LPCB Ref. No.
A2000L	Altair Lite Addressable Photoelectric Smoke Detector & Category A1R Heat Detector (LAB1000 Base) Notes: 1. Meets the requirements of EN 54-5 (Category A1) & EN 54-7 at the following settings: Multi criteria level 1 (most sensitive) - Thermally enhanced smoke detection with Category A1 heat response Multi criteria level 2 - Thermally enhanced smoke detection with Category A1 heatresponse Multi criteria level 3 - Thermally enhanced smoke detection with Category A1 heat response Multi criteria level 4 (least sensitive) - Thermally enhanced smoke detection with Category A1 heat response 2. Meets the requirements of EN 54-5 (Category A1R) at the following settings: Category A1R heat only response 3. Meets the requirements of EN 54-7 at the following settings: Optical only level 1 High sensitivity Optical only level 2 Optical only level 3 Optical only level 4 Low sensitivity	928f/02

Bases

LAB1000 Low Profile Adaptor Base

A copy of the certificate, confirming the full scope of approval including notes relating to the superscript references in the above table, may be viewed online by clicking on the product name in the associated entry on www.RedBookLive.com

Certificate No: 928m to EN 54-5:2017+A1:2018, EN 54-7:2018, EN 54-25:2008, CEA 4021:2003

Certificated Products		LPCB Ref. No.
L-MC-SG	Wireless Libra Addressable Multicriteria Detector (WAB100 Base) Notes: 1. Meets the requirements of EN 54-5 for Category A1R 2. Meets the requirements of EN 54-7 at the following sensitivity settings: Level 1 - High Level 2 - Normal Level 3 - Low 3. The device must be used with the following battery type only: CR123A (3 Vdc) - Primary and Secondary Battery	928m/02

Base
WAB100 - Wireless Adaptor Base

A copy of the certificate, confirming the full scope of approval including notes relating to the superscript references in the above table, may be viewed online by clicking on the product name in the associated entry on www.RedBookLive.com

Armor Safety & Security Ltd

120 Baker Street, London W1U 6TU, United Kingdom
Tel: +971506531199
Website: www.armorsafety.org

Certificate No: 928ae-(cl-2) to EN 54-7: 2018

Certificated Products		LPCB Ref. No.
ARM-OP	Addressable Photoelectric Smoke Detector (ARM-MB base) *Note:* *1.Meets the requirements of EN 54-7 at the following sensitivity settings:* *Optical only level 1 - High* *Optical only level 2* *Optical only level 3* *Optical only level 4 - Low*	928ae/01

Bases
ARM-MB Mounting Base

A copy of the certificate, confirming the full scope of approval including notes relating to the superscript references in the above table, may be viewed online by clicking on the product name in the associated entry on www.RedBookLive.com

Certificate No: 928ag-(cl-2) to EN 54-5: 2017 + A1: 2018

Certificated Products		LPCB Ref. No.
ARM-HT	Addressable Category P Heat Detector (ARM-MB base) *Note:* *1. Meets the requirements of EN 54-5 for Category A1R and Category BS*	928ag/01

Bases
ARM-MB Mounting Base

A copy of the certificate, confirming the full scope of approval including notes relating to the superscript references in the above table, may be viewed online by clicking on the product name in the associated entry on www.RedBookLive.com

Certificate No: 928af-(cl-2) to EN54-5: 2017 + A1: 2018, EN 54-7: 2018, CEA 4021: 2003

Certificated Products		LPCB Ref. No.
ARM-OH	Addressable Photoelectric Smoke Detector & Heat Detector (ARM-MB Base) *Notes:* *1. Meets the requirements of EN 54-5 & EN 54-7 at the following settings:* *Multi criteria level 1 (most sensitive) - Thermally enhanced smoke detection with Category A1 heat response* *Multi criteria level 2 - Thermally enhanced smoke detection with Category A1 heat response* *Multi criteria level 3 - Thermally enhanced smoke detection with Category A1 heat response* *Multi criteria level 4 (least sensitive) - Thermally enhanced smoke detection with Category A1 heat response* *2. Meets the requirements of EN 54-5 at the following settings:* *Category A1R heat only response* *3. Meets the requirements of EN 54-7 at the following settings:* *Optical only level 1 - High sensitivity* *Optical only level 2*	928af/01

Certificated Products		LPCB Ref. No.
	Optical only level 3 *Optical only level 4 - Low sensitivity*	

Bases
ARM-MB Mounting Base

A copy of the certificate, confirming the full scope of approval including notes relating to the superscript references in the above table, may be viewed online by clicking on the product name in the associated entry on www.RedBookLive.com

Certificate No: 928ad-(cl-2) to EN 54-5:2017+A1:2018, EN 54-17:2005

Certificated Products		LPCB Ref. No.
ARM-HTX	Analogue Addressable Category P Heat Detector with Short Circuit Isolator (ARM-MB base) Note: 1. Meets the requirements of EN 54-5 at Category A1R and Category BS	928ad/01

Bases
ARM-MB Mounting Base

A copy of the certificate, confirming the full scope of approval including notes relating to the superscript references in the above table, may be viewed online by clicking on the product name in the associated entry on www.RedBookLive.com

Certificate No: 928ab-(cl-2) to EN 54-7:2018, EN 54-17:2005

Certificated Products		LPCB Ref. No.
ARM-OPX	Analogue Addressable Photoelectric Smoke Detector with Short Circuit Isolator (ARM-MB base) Notes: 1.Meets the requirements of EN 54-7 at the following sensitivity settings: Optical only level 1 - High Optical only level 2 Optical only level 3 Optical only level 4 - Low	928ab/01

Base
ARM-MB Mounting Base

A copy of the certificate, confirming the full scope of approval including notes relating to the superscript references in the above table, may be viewed online by clicking on the product name in the associated entry on www.RedBookLive.com

Certificate No: 928ac-(cl-2) to EN 54-5:2017+A1:2018, EN 54-7:2018, EN 54-17:2005, CEA 4021:2003

Certificated Products		LPCB Ref. No.
ARM-OHX	Addressable Multi-Criteria Detector with Short Circuit Isolator (ARM-MB base) Notes: 1. Meets the requirements of EN 54-5 & EN 54-7 at the following settings: Multi Criteria Level 1 (most sensitive) - Thermally enhanced smoke detection with Category A1 heat response Multi Criteria Level 2 - Thermally enhanced smoke detection with Category A1 heat response Multi Criteria Level 3 - Thermally enhanced smoke detection with Category A1 heat response Multi Criteria Level 4 (least sensitive) - Thermally enhanced smoke detection with Category A1 heat response 2. Meets the requirements of EN 54-5 at the following settings: Category A1R heat only response 3. Meets the requirements of EN 54-7 at the following sensitivity settings: Optical only level 1 - High Optical only level 2	928ac/01

Certificated Products		LPCB Ref. No.
	Optical only level 3 Optical only level 4 - Low	

Bases

ARM-MB Mounting Base

A copy of the certificate, confirming the full scope of approval including notes relating to the superscript references in the above table, may be viewed online by clicking on the product name in the associated entry on www.RedBookLive.com

---

ASENWARE LTD

6 Prospect Way, Royal Oak Industrial Estate, Daventry, Northamptonshire NN11 8PL, United Kingdom
Tel: +8613828765759
E-mail: info@asenware.com

Certificate No: 1426c-(cl-3) to EN 54-7:2018

Commercial detectors

Certificated Products		LPCB Ref. No.
AW-D301	Addressable Smoke Detector *Notes:* *Meets the requirements of EN 54-7 for 1 sensitivity setting*	1426c/01

Base

DZ-912

A copy of the certificate, confirming the full scope of approval including notes relating to the superscript references in the above table, may be viewed online by clicking on the product name in the associated entry on www.RedBookLive.com

Certificate No: 1426b-(cl-3) to EN 54-5:2017 + A1:2018

Certificated Products		LPCB Ref. No.
AW-D302	Addressable Heat Detector *Notes:* *Meets the requirements of EN 54-5 for Category A2*	1426b/01

Base

DZ-912

A copy of the certificate, confirming the full scope of approval including notes relating to the superscript references in the above table, may be viewed online by clicking on the product name in the associated entry on www.RedBookLive.com

Certificate No: 1426k-(cl-2) to EN 54-5: 2017 + A1: 2018, EN 54-7: 2018

Certificated Products		LPCB Ref. No.
AW-D303	Analogue Addressable Optical/Heat Multi-sensor Detector (Base DZ-912) *Notes* *1. Meets the requirements of EN 54-7 using Modes 1 & 2 at sensitivity level 1 and EN 54-5 using Modes 1 & 2 for Category A2R, and A2* *2. Meets the requirements of EN 54-5 using Modes 3 & 4 for Category A2R, and A2S* *3. Meets the requirements of EN 54-7 using Mode 5 at sensitivity level 1*	1426k/01

Base

DZ-912

A copy of the certificate, confirming the full scope of approval including notes relating to the superscript references in the above table, may be viewed online by clicking on the product name in the associated entry on www.RedBookLive.com

ASI Oy Ltd

Laitaatsillantie 3, Savonlinna 57170, Finland
Tel: +358 20 730 8550
E-mail: mail@asioy.fi • Website: https://asioy.fi/

Certificate No: 1571a to EN 54-5:2017 + A1:2018, EN 54-7:2018, EN 54-25:2008 & EN 54-29:2015

Multi-Sensor/Multi-Criteria Detectors

Certificated Products		LPCB Ref. No.
ARF-WL8-OH	Wireless Multi-Sensor Detector Notes: 1. Meets the requirements of EN 54-5 for the following settings: - Category A1R 2. Approved to EN54-7 at the following sensitivity settings: - High - Normal - Low 3. The device must be used with the following batteries only: - Primary CR123A (3V) - Secondary CR2032 (3V)	1571a/01
EK-WL8-OH	(EKHO Brand) Wireless Multi-Sensor Detector Notes: 1. Meets the requirements of EN 54-5 for the following settings: - Category A1R 2. Approved to EN54-7 at the following sensitivity settings: - High - Normal - Low 3. The device must be used with the following batteries only: - Primary CR123A (3V) - Secondary CR2032 (3V)	1571a/01
KM-WL8-OH	(K-Mesh Brand) Wireless Multi-Sensor Detector Notes: 1. Meets the requirements of EN 54-5 for the following settings: - Category A1R 2. Approved to EN54-7 at the following sensitivity settings: - High - Normal - Low 3. The device must be used with the following batteries only: - Primary CR123A (3V) - Secondary CR2032 (3V)	1571a/01

A copy of the certificate, confirming the full scope of approval including notes relating to the superscript references in the above table, may be viewed online by clicking on the product name in the associated entry on www.RedBookLive.com

Certificate No: 1571b to EN 54-7:2018 & EN 54-25:2008

Smoke Detectors

Certificated Products		LPCB Ref. No.
ARF-WL8-O	Wireless Optical Smoke Detector Notes: 1. Approved to EN54-7 at the following sensitivity settings: - High - Normal - Low 2. The device must be used with the following batteries only: - Primary CR123A (3V) - Secondary CR2032 (3V)	1571b/01
EK-WL8-O	(EKHO Brand) Wireless Optical Smoke Detector Notes: 1. Approved to EN54-7 at the following sensitivity settings: - High	1571b/01

Certificated Products		LPCB Ref. No.
	- Normal - Low 2. The device must be used with the following batteries only: - Primary CR123A (3V) - Secondary CR2032 (3V)	
KM-WL8-O	(K-Mesh Brand) Wireless Optical Smoke Detector Notes: 1. Approved to EN54-7 at the following sensitivity settings: - High - Normal - Low 2. The device must be used with the following batteries only: - Primary CR123A (3V) - Secondary CR2032 (3V)	1571b/01

A copy of the certificate, confirming the full scope of approval including notes relating to the superscript references in the above table, may be viewed online by clicking on the product name in the associated entry on www.RedBookLive.com

Certificate No: 1571c to EN 54-5:2017 + A1:2018 & EN 54-25:2008

Heat Detectors

Certificated Products		LPCB Ref. No.
ARF-WL8-H	Wireless Heat Detector Notes: 1. Meets the requirements of EN 54-5 for the following settings: - Category A1R 2. The device must be used with the following batteries only: - Primary CR123A (3V) - Secondary CR2032 (3V)	1571c/01
EK-WL8-H	(EKHO Brand) Wireless Heat Detector Notes: 1. Meets the requirements of EN 54-5 for the following settings: - Category A1R 2. The device must be used with the following batteries only: - Primary CR123A (3V) - Secondary CR2032 (3V)	1571c/01
KM-WL8-H	(K-Mesh Brand) Wireless Heat Detector Notes: 1. Meets the requirements of EN 54-5 for the following settings: - Category A1R 2. The device must be used with the following batteries only: - Primary CR123A (3V) - Secondary CR2032 (3V)	1571c/01

A copy of the certificate, confirming the full scope of approval including notes relating to the superscript references in the above table, may be viewed online by clicking on the product name in the associated entry on www.RedBookLive.com

Certificate No: 1571e to EN 54-3:2014 + A1:2019, EN 54-7:2018, EN 54-23:2010 & EN 54-25:2008

Smoke Detectors

Certificated Products		LPCB Ref. No.
ARF-WL8-OV	Wireless Optical Smoke Detector with Type A Built-In Voice Annunciator and VAD Notes: 1. Meets the requirements of EN 54-3 for the following tones: - Tone intermittent, 2500 Hz (3 x 500ms pulses followed by 1.5s silence then repeat) - Voice message 2 (Fire! Fire! Please leave the building by the nearest exit) synchronised (3 x 500ms followed by voice message then repeat) - Voice message 3 (Fire! Fire! Please leave the building by the central exit) synchronised (3 x 500ms followed by voice message then repeat) 2. Approved to EN54-7 at the following sensitivity settings: - High - Normal - Low 3. The device must be used with the following batteries only: - Primary - CR123A (3V) - Secondary - CR123A (3V) 4. The Ceiling mounted VAD meets the requirements of EN 54-23 for the following:	1571e/01

Certificated Products		LPCB Ref. No.
	- Category rating C-3-2.6 - Synchronization - Flash rate 0.5Hz - White LED	
EK-WL8-OV	(EKHO Brand) Wireless Optical Smoke Detector with Type A Built-In Voice Annunciator and VAD Notes: 1. Meets the requirements of EN 54-3 for the following tones: - Tone intermittent, 2500 Hz (3 x 500ms pulses followed by 1.5s silence then repeat) - Voice message 2 (Fire! Fire! Please leave the building by the nearest exit) synchronised (3 x 500ms followed by voice message then repeat) - Voice message 3 (Fire! Fire! Please leave the building by the central exit) synchronised (3 x 500ms followed by voice message then repeat) 2. Approved to EN54-7 at the following sensitivity settings: - High - Normal - Low 3. The device must be used with the following batteries only: - Primary - CR123A (3V) - Secondary - CR123A (3V) 4. The Ceiling mounted VAD meets the requirements of EN 54-23 for the following: - Category rating C-3-2.6 - Synchronization - Flash rate 0.5Hz - White LED	1571e/01
KM-WL8-OV	(K-Mesh Brand) Wireless Optical Smoke Detector with Type A Built-In Voice Annunciator and VAD Notes: 1. Meets the requirements of EN 54-3 for the following tones: - Tone intermittent, 2500 Hz (3 x 500ms pulses followed by 1.5s silence then repeat) - Voice message 2 (Fire! Fire! Please leave the building by the nearest exit) synchronised (3 x 500ms followed by voice message then repeat) - Voice message 3 (Fire! Fire! Please leave the building by the central exit) synchronised (3 x 500ms followed by voice message then repeat) 2. Approved to EN54-7 at the following sensitivity settings: - High - Normal - Low 3. The device must be used with the following batteries only: - Primary - CR123A (3V) - Secondary - CR123A (3V) 4. The Ceiling mounted VAD meets the requirements of EN 54-23 for the following: - Category rating C-3-2.6 - Synchronization - Flash rate 0.5Hz - White LED	1571e/01

A copy of the certificate, confirming the full scope of approval including notes relating to the superscript references in the above table, may be viewed online by clicking on the product name in the associated entry on www.RedBookLive.com

---

ATEIS Middle East FZCO

LIU 11 Dubai Silicon Oasis, Post Box 293640, Dubai, United Arab Emirates
Tel: +971 4 3262730 • Fax: +971 4 3262731
E-mail: info@ateis.ae • Website: www.ateis.ae

Certificate No: 1154n to EN 54-5: 2017 + A1: 2018, EN 54-7: 2018 , EN 54-25: 2008, CEA 4021: 2003

Multi-Criteria Detectors

Certificated Products		LPCB Ref. No.
WL200X	Velox Bi-directional Wireless Addressable Multi-criteria Smoke Detector with Variable sensitivity *Notes:* *1. Meets the requirements of EN 54-5 for Category A1R* *2. Meets the requirements of EN 54-7 at the following sensitivity settings:* *Level 1 - High* *Level 2 - Normal*	1154n/01

Certificated Products		LPCB Ref. No.
	Level 3 - Low *3. The device must be used with the following battery type only:* *CR123A (3 Vdc) - Primary and Secondary Battery*	

Bases

VELOX VB100	Velox adaptor base
UB100	Universal adaptor base
VELOX VB100S	Velox adaptor base with shorting clip
UB100S	Universal adaptor base with shorting clip
VELOX VDBS100	Velox deep adaptor base
DBS100	Deep adaptor base
VELOX VDBS100S	Velox deep adaptor base with shorting clip
DBS100S	Deep adaptor base with shorting clip
WAB100	Wireless Adaptor Base

40900	Velox adaptor base
40900-S	Velox adaptor base with short clip
40900-DP	Velox deep adaptor base
40900-DPS	Velox deep adaptor base with short clip

A copy of the certificate, confirming the full scope of approval including notes relating to the superscript references in the above table, may be viewed online by clicking on the product name in the associated entry on www.RedBookLive.com

Certificate No: 1154k to EN 54-5: 2017+ A1: 2018 , EN 54-25: 2008

Certificated Products		LPCB Ref. No.
WL350X	Velox Bi-directional Wireless Addressable Category P Heat Detector *Notes:* *1. Meets the requirements of EN 54-5 for Categorys A1R and BS* *2. The device must be used with the following battery type only:* *CR123A (3 Vdc) - Primary and Secondary Battery*	1154k/01

Base

WAB100 - Wireless Adaptor Base

A copy of the certificate, confirming the full scope of approval including notes relating to the superscript references in the above table, may be viewed online by clicking on the product name in the associated entry on www.RedBookLive.com

Certificate No: 1154m to EN 54-7: 2018 , EN 54-25: 2008

Certificated Products		LPCB Ref. No.
WL100X	Velox Bi-directional Wireless Addressable Dual Path Optical Smoke Detector with Variable Sensitivity *Notes:* *1. Meets the requirements of EN 54-7 at the following sensitivity settings:* *Level 1 - High* *Level 2 - Normal* *Level 3 - Low* *2. The device must be used with the following battery type only:* *CR123A (3 Vdc) - Primary and Secondary Battery*	1154m/01

Base

WAB100 - Wireless Adaptor Base

A copy of the certificate, confirming the full scope of approval including notes relating to the superscript references in the above table, may be viewed online by clicking on the product name in the associated entry on www.RedBookLive.com

Bharat Fire Fighting PVT Ltd

Garudichira House, Kuriyannoor post,, Thottappuzhassery, Pullada,, Pathanam Thitta, Kerala 689550, India
Tel: 00919446274427
E-mail: info@bhafffco.com

Certificate No: 1450c-(cl-3) to EN 54-7: 2018

Certificated Products		LPCB Ref. No.
BKG300	Addressable Photoelectric Smoke Detector (BKFB2 base)	1450c/01

Base
BKFB2
A copy of the certificate, confirming the full scope of approval including notes relating to the superscript references in the above table, may be viewed online by clicking on the product name in the associated entry on www.RedBookLive.com

Certificate No: 1450d-(cl-3) to EN 54-5: 2017 + A1: 2018

Certificated Products		LPCB Ref. No.
BKG310	Addressable Category A2R Rate of Rise and Fixed Temperature Heat Detector (BKFB2 Base)	1450d/01

Base
BKFB2
A copy of the certificate, confirming the full scope of approval including notes relating to the superscript references in the above table, may be viewed online by clicking on the product name in the associated entry on www.RedBookLive.com

Certificate No: 1450j-(cl-1) to EN 54-29:2015

Certificated Products		LPCB Ref. No.
BKG330	Addressable Smoke and Heat Multi Detector (BKFB2 Base) Notes: 1. Meets the requirements of EN 54-29 for Heat Category A2R Meets the requirements of EN 54-29 at Smoke sensitivity levels High, Medium and Low	1450j/01

Bases

BKFB2 Standard Base

A copy of the certificate, confirming the full scope of approval including notes relating to the superscript references in the above table, may be viewed online by clicking on the product name in the associated entry on www.RedBookLive.com

Bilgi Elektronik

Dudullu OSB, 1.Cadde İsmet Tarman İş Merkezi, N:1 K:2/32 Ümraniye, Istanbul 34776, Turkey
Tel: +902164558846
E-mail: sales@bilgielektronik.com.tr • Website: www.teknim.com.tr

Certificate No: 1692a to EN 54-7: 2018

Certificated Products		LPCB Ref. No.
TFD-4230	Conventional Optical Smoke Detector (Standard Base) *Note:* *1. Meets the requirements of EN 54-7 at sensitivity level 1 (default) setting only*	1692a/01

Bases

Standard Base

A copy of the certificate, confirming the full scope of approval including notes relating to the superscript references in the above table, may be viewed online by clicking on the product name in the associated entry on www.RedBookLive.com

Certificate No: 1692b to EN 54-5:2017 + A1: 2018

Certificated Products		LPCB Ref. No.
TFD-4240	Conventional Heat Detector (Fixed Heat) (Standard Base) *Note:* *1.the requirements of EN 54-5 for Category A2S.*	1692b/01
TFD-4245	Conventional Rate of Heat Rise Detector (Standard Base) *Note:* *1.the requirements of EN 54-5 for Category A2R.*	1692b/02

Bases
Standard Base

A copy of the certificate, confirming the full scope of approval including notes relating to the superscript references in the above table, may be viewed online by clicking on the product name in the associated entry on www.RedBookLive.com

Certificate No: 1692c to EN 54-5: 2017 + A1: 2018, EN 54-7: 2018

Certificated Products		LPCB Ref. No.
TFD-4250	Conventional Fixed Heat and Smoke Multi-Sensor Detector (Standard Base) *Notes* *1. Meets the requirements of EN 54-5 for Category A2S.* *Meets the requirements of EN 54-7 at sensitivity level 1 (default) setting only*	1692c/01

Bases
Standard Base

A copy of the certificate, confirming the full scope of approval including notes relating to the superscript references in the above table, may be viewed online by clicking on the product name in the associated entry on www.RedBookLive.com

---

Bristol Fire Engineering LLC

Al Quoz Industrial Area 3, P.O.Box 74582, Dubai, United Arab Emirates
Tel: +971 4 347 2426 • Fax: +971 4 347 2363
E-mail: sami@bristol-fire.com • Website: www.bristol-fire.com

Certificate No: 1174a-(cl-3) to EN 54-7:2018

Smoke Detectors

Certificated Products		LPCB Ref. No.
B61-1001	Conventional Optical Smoke Detector (B61-4001 base) *Note:* *1. Meets the requirements of EN 54-7 at default sensitivity setting only*	1174a/01

Bases
B61-4001 Base
IGN-7200 Base
A copy of the certificate, confirming the full scope of approval including notes relating to the superscript references in the above table, may be viewed online by clicking on the product name in the associated entry on www.RedBookLive.com

Certificate No: 1174b-(cl-3) to EN 54-5:2017 + A1:2018

Heat Detectors

Certificated Products		LPCB Ref. No.
B61-2001	Conventional Heat Detector (B61-4001 base)	1174b/01

Certificated Products		LPCB Ref. No.
	Note: *1. Meets the requirements of EN 54-5 at Category A2R*	

Bases
B61-4001 Base
IGN-7200 Base

A copy of the certificate, confirming the full scope of approval including notes relating to the superscript references in the above table, may be viewed online by clicking on the product name in the associated entry on www.RedBookLive.com

Certificate No: 1330j-(cl-2) to EN 54-29:2015

Multi-Sensor/Multi-Criteria Detectors

Certificated Products		LPCB Ref. No.
IGN-7403	Intelligent Multi-sensor Fire Detector (IGN-7200 Base) *Notes:* *Meets the requirements of EN 54-29 for Heat Category A2R*	1330j/01

Bases

IGN-7200
A copy of the certificate, confirming the full scope of approval including notes relating to the superscript references in the above table, may be viewed online by clicking on the product name in the associated entry on www.RedBookLive.com

Certificate No: 1330a-(cl-5) to EN 54-12:2015

Certificated Products		LPCB Ref. No.
IGN-C7404	Conventional Reflective Beam Detector Notes: 1. Meets the requirements of EN 54-12: 2015 at the following sensitivity settings: - Level 1: 2.6 dB High sensitivity - Level 2: 3.8 dB Medium sensitivity - Level 3: 5.8 dB Low sensitivity 2. Suitable for use at the following separation ranges: - Span 1: 8 to 20 meters Short Path (1 x mirror reflector required) - Span 2: 20 to 40 meters Short Path (1 x mirror reflector required) - Span 3: 40 to 70 meters Normal Path (4 x mirror reflector required) - Span 4: 70 to 100 meters Long Path (4 x mirror reflector required)	1330a/01

Accessories:
Mounting Bracket
IGN-C7404-R 1 x Mirror Reflector
IGN-C7404-R 4 x Mirror Reflector

A copy of the certificate, confirming the full scope of approval including notes relating to the superscript references in the above table, may be viewed online by clicking on the product name in the associated entry on www.RedBookLive.com

Certificate No: 1330b-(cl-2) to EN 54-7:2018

Certificated Products		LPCB Ref. No.
IGN-7401	Intelligent Smoke Detector (IGN-7200 base)	1330b/01

Base

IGN-7200	Detector Base

A copy of the certificate, confirming the full scope of approval including notes relating to the superscript references in the above table, may be viewed online by clicking on the product name in the associated entry on www.RedBookLive.com

Certificate No: 1330c-(cl-2) to EN 54-5:2017 + A1:2018

Certificated Products		LPCB Ref. No.
IGN-7402	Intelligent Heat Detector (IGN-7200 base) Note: 1. Meets the requirements of EN 54-5 for Category A1R	1330c/01

Base

IGN-7200 Detector Base

A copy of the certificate, confirming the full scope of approval including notes relating to the superscript references in the above table, may be viewed online by clicking on the product name in the associated entry on www.RedBookLive.com

---

Carrier Fire & Security BV

Kelvinstraat 7, 6003DH, Weert, The Netherlands
Tel: +31 495 579 579
E-mail: heni.karaa@carrier.com • Website: www uk.firesecurityproducts.com/en

Certificate No: 1320b-(cl-1) to EN 54-5:2017 + A1:2018, EN 54-7:2018, CEA 4021:2003

Certificated Products		LPCB Ref. No.
ZX832-3P	Analogue Addressable Combined Photoelectric Smoke and Heat Detector - Polar White (ZP7-SB1 base) Notes: 1. Meets the requirements of EN 54-7:2018 at sensitivity level 1, Profile 4 (default) setting only. 2. Meets the requirements of EN 54-5:2017 + A1:2018 for Class A1	1320b/01

Base:
ZP7-SB1 Standard Base
A copy of the certificate, confirming the full scope of approval including notes relating to the superscript references in the above table, may be viewed online by clicking on the product name in the associated entry on www.RedBookLive.com

Certificate No: 010p to EN 54-5:2017 +A1:2018

Heat Detectors

Certificated Products		LPCB Ref. No.
DT654L	Series 65 Conventional Category A1R Heat Detector with Flashing LED (branded as Aritech Ltd) (DB860 base) Notes: Meets the requirements of EN54: Part 5 at Category A1R Also certified for use with DB650, DB650R, 45681-247, 45681-248 and 45681-201 mounting bases.	010p/05
23900-K035-065	Series 65 Conventional Category A1R Heat Detector (branded as Kidde Products Ltd) (23902-H08 base) Notes: Meets the requirements of EN54: Part 5 at Category A1R Also certified for use with 45681-245, 45681-246, 45681-247, 45681-248 and 45681-201 mounting bases.	010p/06
DT654	Series 65 Conventional Category A1R Heat Detector (branded as Aritech Ltd) (DB860 base) Notes: Meets the requirements of EN54: Part 5 at Category A1R Also certified for use with DB650, DB650R, 45681-247, 45681-248 and 45681-201 mounting bases.	010p/06
DT655L	Series 65 Conventional Category BR Heat Detector with Flashing LED (branded as Aritech Ltd) (DB860 base) Notes: Meets the requirements of EN54: Part 5 at Category BR Also certified for use with DB650, DB650R, 45681-247, 45681-248 and 45681-201 mounting bases.	010p/08
DT655	Series 65 Conventional Category BR Heat Detector (branded as Aritech Ltd) (DB860 base) Notes: Meets the requirements of EN54: Part 5 at Category BR	010p/09

Certificated Products		LPCB Ref. No.
	Also certified for use with DB650, DB650R, 45681-247, 45681-248 and 45681-201 mounting bases.	

Bases
23902-H08 Series 60/65 mounting base
DB860 Series 60/65 mounting base
DB650 Series 65 relay mounting base
DB650R Series 65 auxiliary relay mounting base

Certificate No: 010q to EN 54-7:2018

Smoke Detectors

Certificated Products		LPCB Ref. No.
DP652L	Series 65 Conventional Optical Detector - Flashing LED (branded as Aritech Ltd) (DB860 mounting base) Note: Also Certified for use with 45681-245, 45681-246, 45681-247, 45681-248 and 45681-201 mounting bases	010q/11
23900-K034-065	Series 65 Conventional Optical Smoke Detector (branded as Kidde Products Ltd) (23902-H08 mounting base) Note: Also Certified for use with 45681-245, 45681-246, 45681-247, 45681-248 and 45681-201 mounting bases	010q/12
DP652	Series 65 Conventional Optical Smoke Detector (branded as Aritech Ltd) (DB860 mounting base) Note: Also Certified for use with 45681-245, 45681-246, 45681-247, 45681-248 and 45681-201 mounting bases	010q/12
23900-K041	XP95 Analogue Addressable Optical Smoke Detector (branded as Kidde Products Ltd) (45681-209 and 45681-210 mounting bases) Note: Certified with Apollo Discovery, XP95, and S90 digital communication protocols that have been configured for the Discovery optical smoke detectors in accordance with manufacturer's instructions.	010q/18

Bases
DB860 Series 60/65 mounting base
23902-H08 Series 60/65 mounting base
45681-209 XP95/Discovery standard deep mounting base
45681-210 XP95 mounting base

Certificate No: 1199d-(cl-1) to EN 54-20:2006

Certificated Products		LPCB Ref. No.
Senator 25	High Sensitivity Aspirating Smoke Detector (Branded as Kidde) Notes: 1. For compliance with Clause 5.10 of EN 54-20:2006, the detector shall be supplied with power from a power supply complying with EN 54-4. 2. The approval of the detector is conditional upon the following requirements: a) Design, installation and commissioning are performed in accordance with the system design manual and instructions. b) The device is approved for sensitivity Classes A, B and C for sensitivities up to 0.31%/m. The Class of any pipe/hole configuration and detector sensitivity must be determined using PipeCAD.	1199d/01
Stratos Micra 25	High Sensitivity Aspirating Smoke Detector (Branded as Kidde Airsense) Notes: 1. For compliance with Clause 5.10 of EN 54-20:2006, the detector shall be supplied with power from a power supply complying with EN 54-4. 2. The approval of the detector is conditional upon the following requirements: a) Design, installation and commissioning are performed in accordance with the system design manual and instructions. b) The device is approved for sensitivity Classes A, B and C for sensitivities up to 0.31%/m. The Class of any pipe/hole configuration and detector sensitivity must be determined using PipeCAD.	1199d/01
Senator 100	High Sensitivity Aspirating Smoke Detector (Branded as Kidde)	1199d/02

Certificated Products		LPCB Ref. No.
	Notes: 1. For compliance with Clause 5.10 of EN 54-20:2006, the detector shall be supplied with power from a power supply complying with EN 54-4. 2. The approval of the detector is conditional upon the following requirements: a) Design, installation and commissioning are performed in accordance with the system design manual and instructions. b) The device is approved for sensitivity Classes A, B and C for sensitivities up to 0.62%/m. The Class of any pipe/hole configuration and detector sensitivity must be determined using PipeCAD.	
Stratos Micra 100	High Sensitivity Aspirating Smoke Detector (Branded as Kidde Airsense) Notes: 1. For compliance with Clause 5.10 of EN 54-20:2006, the detector shall be supplied with power from a power supply complying with EN 54-4. 2. The approval of the detector is conditional upon the following requirements: a) Design, installation and commissioning are performed in accordance with the system design manual and instructions. b) The device is approved for sensitivity Classes A, B and C for sensitivities up to 0.62%/m. The Class of any pipe/hole configuration and detector sensitivity must be determined using PipeCAD.	1199d/02
Senator 200	High Sensitivity Aspirating Smoke Detector (Branded as Kidde) (Senator Command Module Ancillary) Notes: 1. For compliance with Clause 5.10 of EN 54-20:2006, the detector shall be supplied with power from a power supply complying with EN 54-4. 2. The approval of the detector is conditional upon the following requirements: a) Design, installation and commissioning are performed in accordance with the system design manual and instructions. b) The device is approved for sensitivity Classes A, B and C for sensitivities up to 0.62%/m, 1.95%/m and 4.65%/m respectively. The Class of any pipe/hole configuration and detector sensitivity must be determined using PipeCAD.	1199d/03
Stratos HSSD 2	High Sensitivity Aspirating Smoke Detector (Branded as Kidde Airsense) (Stratos HSSD 2 Stand Alone Command Module Ancillary) Notes: 1. For compliance with Clause 5.10 of EN 54-20:2006, the detector shall be supplied with power from a power supply complying with EN 54-4. 2. The approval of the detector is conditional upon the following requirements: a) Design, installation and commissioning are performed in accordance with the system design manual and instructions. b) The device is approved for sensitivity Classes A, B and C for sensitivities up to 0.62%/m, 1.95%/m and 4.65%/m respectively. The Class of any pipe/hole configuration and detector sensitivity must be determined using PipeCAD.	1199d/03
Senator 200 + Command Module	High Sensitivity Aspirating Command Module Smoke Detector (Branded as Kidde) Notes: 1. For compliance with Clause 5.10 of EN 54-20:2006, the detector shall be supplied with power from a power supply complying with EN 54-4. 2. The approval of the detector is conditional upon the following requirements: a) Design, installation and commissioning are performed in accordance with the system design manual and instructions. b) The device is approved for sensitivity Classes A, B and C for sensitivities up to 0.62%/m, 1.95%/m and 4.65%/m respectively. The Class of any pipe/hole configuration and detector sensitivity must be determined using PipeCAD.	1199d/04
Stratos HSSD 2 + Command Module	High Sensitivity Aspirating Command Module Smoke Detector (Branded as Kidde Airsense) Notes: 1. For compliance with Clause 5.10 of EN 54-20:2006, the detector shall be supplied with power from a power supply complying with EN 54-4. 2. The approval of the detector is conditional upon the following requirements: a) Design, installation and commissioning are performed in accordance with the system design manual and instructions. b) The device is approved for sensitivity Classes A, B and C for sensitivities up to 0.62%/m, 1.95%/m and 4.65%/m respectively. The Class of any pipe/hole configuration and detector sensitivity must be determined using PipeCAD.	1199d/04
Senator 200 Minimum Display Module	High Sensitivity Aspirating Minimum Display Version Smoke Detector (Branded as Kidde) (Senator Command Module Ancillary) Notes: 1. For compliance with Clause 5.10 of EN 54-20:2006, the detector shall be supplied with power from a power supply complying with EN 54-4. 2. The approval of the detector is conditional upon the following requirements: a) Design, installation and commissioning are performed in accordance with the system	1199d/05

Certificated Products		LPCB Ref. No.
	design manual and instructions. b) The device is approved for sensitivity Classes A, B and C for sensitivities up to 0.62%/m, 1.95%/m and 4.65%/m respectively. The Class of any pipe/hole configuration and detector sensitivity must be determined using PipeCAD.	
Stratos HSSD 2 Minimum Display Module	High Sensitivity Aspirating Minimum Display Version Smoke Detector (Branded as Kidde Airsense) (Stratos HSSD 2 Stand Alone Command Module Ancillary) Notes: 1. For compliance with Clause 5.10 of EN 54-20:2006, the detector shall be supplied with power from a power supply complying with EN 54-4. 2. The approval of the detector is conditional upon the following requirements: a) Design, installation and commissioning are performed in accordance with the system design manual and instructions. b) The device is approved for sensitivity Classes A, B and C for sensitivities up to 0.62%/m, 1.95%/m and 4.65%/m respectively. The Class of any pipe/hole configuration and detector sensitivity must be determined using PipeCAD.	1199d/05
9-30783	Detector Module for Stratos ModuLaser (Branded AirSense) Incorporating the following ancillary equipment: -Apollo APIC Card for Stratos ModuLaser (Part No: 9-30430) Notes:1. For compliance with EN 54-20:2006, the Detector Module(s) (9-30783) must be used in conjunction with at least one of the following ancillary equipment: - Command Display Module, (Part No: 9-30782)- Standard Display Module, (Part No: 9-30781)- Minimum Display Module, (Part No: 9-30780) 2. For compliance with clause 5.10 of EN 54-20:2006, all detectors and displays shall be supplied with power from a power supply conforming with the requirements of EN 54-4. 3. The device is approved for sensitivity Classes A, B and C. The Class of any pipework and hole configuration, detector sensitivity and equipment parameters must be determined using PipeCAD software. 4. The approval of the detector is conditional upon the following requirements: - Design including accessories used, installation and commissioning are performed in accordance with the system installation manual 4-4001-501-1003.	1199d/07
9-30783-CHI	Detector Module for Stratos ModuLaser (Branded AirSense, Chinese Variant) Incorporating the following ancillary equipment: -Apollo APIC Card for Stratos ModuLaser (Part No: 9-30430) Notes:1. For compliance with EN 54-20:2006, the Detector Module(s) (9-30783-CHI) must be used in conjunction with at least one of the following ancillary equipment: - Command Display Module, (Part No: 9-30782-CHI)- Standard Display Module, (Part No: 9-30781-CHI)- Minimum Display Module, (Part No: 9-30780-CHI) 2. For compliance with clause 5.10 of EN 54-20:2006, all detectors and displays shall be supplied with power from a power supply conforming with the requirements of EN 54-4. 3. The device is approved for sensitivity Classes A, B and C. The Class of any pipework and hole configuration, detector sensitivity and equipment parameters must be determined using PipeCAD software. 4. The approval of the detector is conditional upon the following requirements: - Design including accessories used, installation and commissioning are performed in accordance with the system installation manual 04-4001-501-1003-11.	1199d/07
9-30783-KID	Senator ModuLaser, Detector Module (Branded Kidde) Incorporating the following ancillary equipment: -Apollo APIC Card for Stratos ModuLaser (Part No: 9-30430) Notes:1. For compliance with EN 54-20:2006, the Detector Module (9-30783-KID) must be used in conjunction with at least one of the following ancillary equipment: - Senator ModuLaser, Command Display Module, (Part No: 9-30782-KID) (Branded Kidde)- Senator ModuLaser, Standard Display Module, (Part No: 9-30781-KID) (Branded Kidde)- Senator ModuLaser, Minimum Display Module, (Part No: 9-30780-KID) (Branded Kidde) 2. For compliance with clause 5.10 of EN 54-20:2006, all detectors and displays shall be supplied with power from a power supply conforming with the requirements of EN 54-4. 3. The device is approved for sensitivity Classes A, B and C. The Class of any pipework and hole configuration, detector sensitivity and equipment parameters must be determined using PipeCAD software.	1199d/07

Certificated Products		LPCB Ref. No.
	4. The approval of the detector is conditional upon the following requirements: - Design including accessories used, installation and commissioning are performed in accordance with the system installation manual 04-4001-501-0003-08.	
FHSD8330	LaserSense ModuLaser, Detector Module (Branded Edwards)	1199d/07
	Incorporating the following ancillary equipment: -Apollo APIC Card for Stratos ModuLaser (Part No: 9-30430)	
	Notes:1. For compliance with EN 54-20:2006, the Detector Module (FHSD8330) must be used in conjunction with at least one of the following ancillary equipment: - LaserSense Modulaser, Command Display Module, (Part No: FHSD8320) (Branded Edwards)- LaserSense Modulaser, Standard Display Module, (Part No: FHSD8310) (Branded Edwards)- LaserSense Modulaser, Minimum Display Module, (Part No: FHSD8300) (Branded Edwards) 2. For compliance with clause 5.10 of EN 54-20:2006, all detectors and displays shall be supplied with power from a power supply conforming with the requirements of EN 54-4.	
	3. The device is approved for sensitivity Classes A, B and C. The Class of any pipework and hole configuration, detector sensitivity and equipment parameters must be determined using PipeCAD software.	
	4. The approval of the detector is conditional upon the following requirements: - Design including accessories used, installation and commissioning are performed in accordance with the system installation manual 04-4001-501-2003-08.	

Ancillaries:
Stratos HSSD 2 Stand Alone Command
Module (Branded as Kidde Airsense)
Senator Command Module (Branded as Kidde)
FHSD8320 Command Display Module (Branded as Edwards)
FSHD8310 Standard Display Module (Branded as Edwards)
FSHD8300 Minimum Display Module (Branded as Edwards)
9-30782-KID Command Display Module (Branded as Kidde)
9-30781-KID Standard Display Module (Branded as Kidde)
9-30780-KID Minimum Display Module (Branded as Kidde)
9-30782-CHI Command Display Module (Chinese Variant)
9-30781-CHI Standard Display Module (Chinese Variant)
9-30780-CHI Minimum Display Module (Chinese Variant)
A copy of the certificate, confirming the full scope of approval including notes relating to the superscript references in the above table, may be viewed online by clicking on the product name in the associated entry on www.RedBookLive.com

---

Ceasefire Industries Private Ltd

E6, Upsidc Industrial Area,, Selaqui, Dehradun, Uttarakhand 24001, India
Tel: +911204223473
E-mail: amit@ceasefire.in

Certificate No: 928k-(cl-11) to EN 54-7: 2018, EN 54-25: 2008

Certificated Products		LPCB Ref. No.
TI-002277A	Wireless Addressable Optical Smoke Detector (WAB100 Base) *Notes:* *1. Meets the requirements of EN 54-7 at the following sensitivity settings:* *Level 1 - High* *Level 2 - Normal* *Level 3 - Low* *2. The device must be used with the following battery type only:* *CR123A (3 Vdc) - Primary and Secondary Battery*	928k/02

Base
WAB100- wireless Adaptor Base
TI-002270 Universal Adaptor Base
DBS100 Deep Adaptor Base
UBR100 Universal Adaptor Base with Resistor
DBSR100 Deep Adaptor Base with Resistor
UBDR100 Universal Adaptor Base with Resistor and Schottky Diode
DBSRD100 Deep Adaptor Base with Resistor and Schottky Diode

TI-002231 Low Profile Adaptor Base

A copy of the certificate, confirming the full scope of approval including notes relating to the superscript references in the above table, may be viewed online by clicking on the product name in the associated entry on www.RedBookLive.com

Certificate No: 928j-(cl-11) to EN54-5: 2017 + A1: 2018 & EN 54-25: 2008

Certificated Products		**LPCB Ref. No.**
TI-002279A	Wireless Addressable Category P Heat Detector (WAB100 Base) *Notes:* *1. Meets the requirements of EN 54-5 for Category A1R and BS* *2. The device must be used with the following battery type only:* *CR123A (3 Vdc) - Primary and Secondary Battery*	928j/02

Bases

TI-002270 Universal Adaptor Base
DBS100 Deep Adaptor Base
UBR100 Universal Adaptor Base with Resistor
DBSR100 Deep Adaptor Base with Resistor
UBDR100 Universal Adaptor Base with Resistor and Schottky
DBSRD100 Deep Adaptor Base with Resistor and Schottky Diode
TI-002231 Low Profile Adaptor Base

A copy of the certificate, confirming the full scope of approval including notes relating to the superscript references in the above table, may be viewed online by clicking on the product name in the associated entry on www.RedBookLive.com

Certificate No: 928m-(cl-11) to EN 54-5: 2017+ A1: 2018, EN 54-7:2018 EN 54-25: 2008 CEA 4021:2003

Certificated Products		**LPCB Ref. No.**
TI-002278A	Wireless Addressable Multicriteria Detector (WAB100 Base) *Notes:* *1. Meets the requirements of EN 54-5 for Category A1R* *2. Meets the requirements of EN 54-7 at the following sensitivity settings:* *Level 1 - High* *Level 2 - Normal* *Level 3 - Low* *3. The device must be used with the following battery type only:* *CR123A (3 Vdc) - Primary and Secondary Battery*	928m/02

Base
WAB100 Base
TI-002231 Low Profile Adaptor Base

A copy of the certificate, confirming the full scope of approval including notes relating to the superscript references in the above table, may be viewed online by clicking on the product name in the associated entry on www.RedBookLive.com

Certificate No: 928d-(cl-14) to EN 54-5:2017+A1:2018

Certificated Products		**LPCB Ref. No.**
TI-002267	Conventional Category B Heat Detector (TI-002270, DBS100, UBR100, DBSR100, UBDR100 and DBSRD100 Bases) Note: 1. Meets the requirements of EN 54-5 for Category B	928d/02
TI-002268	Conventional Category A1R Heat Detector (TI-002270, DBS100, UBR100, DBSR100, UBDR100 and DBSRD100 Bases) Note: 1. Meets the requirements of EN 54-5 for Category A1R	928d/02
TI-002216	Addressable Category P Heat Detector (TI-002231 Base) Note: 1. Meets the requirements of EN 54-5 for Category A1R, Category B and Category BS	928d/03

Bases

TI-002270 Universal Adaptor Base
DBS100 Deep Adaptor Base
UBR100 Universal Adaptor Base with Resistor
DBSR100 Deep Adaptor Base with Resistor
UBDR100 Universal Adaptor Base with Resistor and Schottky
DBSRD100 Deep Adaptor Base with Resistor and Schottky Diode
TI-002231 Low Profile Adaptor Base

A copy of the certificate, confirming the full scope of approval including notes relating to the superscript references in the above table, may be viewed online by clicking on the product name in the associated entry on www.RedBookLive.com

Certificate No: 928a-(cl-10) to EN 54-5:2017+A1:2018, EN 54-17:2005

Certificated Products		**LPCB Ref. No.**
TI-002215	Analogue Addressable Category P Heat Detector with Short Circuit Isolator (TI-002231 base) Note: 1. Meets the requirements of EN 54-5 for Category A1R, Category B and Category BS	928a/02

Base
TI-002231 Low Profile Adaptor Base

A copy of the certificate, confirming the full scope of approval including notes relating to the superscript references in the above table, may be viewed online by clicking on the product name in the associated entry on www.RedBookLive.com

Certificate No: 928b-(cl-10) to EN 54-7:2018, EN 54-17:2005

Certificated Products		**LPCB Ref. No.**
TI-002211	Addressable Photoelectric Smoke Detector with Short Circuit Isolator (TI-002231 Base) Note: 1. Meets the requirements of EN 54-7 at the following sensitivity settings: Optical only level 1 - High Optical only level 2 Optical only level 3 Optical only level 4 - Low	928b/02

Bases:
TI-002231 Low Profile Adaptor Base

A copy of the certificate, confirming the full scope of approval including notes relating to the superscript references in the above table, may be viewed online by clicking on the product name in the associated entry on www.RedBookLive.com

Certificate No: 928e-(cl-14) to EN 54-7:2018

Certificated Products		**LPCB Ref. No.**
TI-002265	Conventional Photoelectric Smoke Detector (TI-002270, DBS100, UBR100, DBSR100, UBDR100 and DBSRD100 Bases)	928e/02
TI-002212	Addressable Photoelectric Smoke Detector (TI-002231 Base) Note: 1. Meets the requirements of EN 54-7 at the following sensitivity settings: Optical only level 1 - High Optical only level 2 Optical only level 3 Optical only level 4 – Low	928e/03

Bases

TI-00270	Universal Adaptor Base
DBS100	Deep Adaptor Base
UBR100	Universal Adaptor Base with Resistor
DBSR100	Deep Adaptor Base with Resistor
UBDR100	Universal Adaptor Base with Resistor and Schottky Diode
DBSRD100	Deep Adaptor Base with Resistor and Schottky Diode
TI-002231	Low Profile Adaptor Base

A copy of the certificate, confirming the full scope of approval including notes relating to the superscript references in the above table, may be viewed online by clicking on the product name in the associated entry on www.RedBookLive.com

Certificate No: 928c-(cl-10) to EN 54-5:2017+A1:2018, EN 54-7:2018, EN 54-17:2005, CEA 4021:2003

Certificated Products		**LPCB Ref. No.**
TI-002213	Addressable Multi-Criteria Detector with Short Circuit Isolator (TI-002231 Base) Notes: 1. Meets the requirements of EN 54-5 (Category A1) & EN 54-7 at the following settings: Multi Criteria Level 1 (most sensitive) - Thermally enhanced smoke detection with Category A1 heat response Multi Criteria Level 2 - Thermally enhanced smoke detection with Category A1 heat response Multi Criteria Level 3 - Thermally enhanced smoke detection with Category A1 heat response Multi Criteria Level 4 (least sensitive) - Thermally enhanced smoke detection with Category A1 heat response 2. Meets the requirements of EN 54-5 (Category A1R) at the following settings: Category A1R heat only response 3. Meets the requirements of EN 54-7 at the following sensitivity settings: Optical only level 1 - High Optical only level 2 Optical only level 3 Optical only level 4 - Low	928c/02

Bases:
TI-002231 Low Profile Adaptor Base

A copy of the certificate, confirming the full scope of approval including notes relating to the superscript references in the above table, may be viewed online by clicking on the product name in the associated entry on www.RedBookLive.com

Certificate No: 928f-(cl-10) to EN 54-5:2017+A1:2018, EN 54-7:2018, CEA 4021:2003

Certificated Products		**LPCB Ref. No.**
TI-002214	Addressable Photoelectric Smoke Detector & Category A1R Heat Detector (TI-002231 Base) Notes: 1. Meets the requirements of EN 54-5 (Category A1) & EN 54-7 at the following settings: Multi criteria level 1 (most sensitive) - Thermally enhanced smoke detection with Category A1 heat response Multi criteria level 2 - Thermally enhanced smoke detection with Category A1 heat response Multi criteria level 3 - Thermally enhanced smoke detection with Category A1 heat response Multi criteria level 4 (least sensitive) - Thermally enhanced smoke detection with Category A1 heat response 2. Meets the requirements of EN 54-5 (Category A1R) at the following settings: Category A1R heat only response 3. Meets the requirements of EN 54-7 at the following settings: Optical only level 1 High sensitivity Optical only level 2 Optical only level 3 Optical only level 4 Low sensitivity	928f/02

Bases
TI-002231 Low Profile Adaptor Base

A copy of the certificate, confirming the full scope of approval including notes relating to the superscript references in the above table, may be viewed online by clicking on the product name in the associated entry on www.RedBookLive.com

Chubb Fire & Security Ltd

Littleton Road, Ashford, Middlesex TW15 1TZ, United Kingdom
Tel: 01784424100
E-mail: sales@chubbfs.com • Website: www.chubb.co.uk

Certificate No: 010p to EN 54-5:2017 +A1:2018

Heat Detectors

Certificated Products		LPCB Ref. No.
F850675N	Series 65 Conventional Category A1R Heat Detector (45681-200 base *Notes:* *1. Meets the requirements of EN54: Part 5 at Category A1R* *2. Also certified for use with 45681-245, 45681-246, 45681-247, 45681-248 and 45681-201 mounting bases*	010p/06
F850677N	Series 65 Conventional Category BR Heat Detector (45681-200 base) *Notes:* *1. Meets the requirements of EN54: Part 5 at Category BR* *2. Also certified for use with 45681-245, 45681-246, 45681-247, 45681-248 and 45681-201 mounting bases.*	010p/09

Bases

45681-200 Series 60/65 mounting base
45681-201 Series 60/65 diode mounting base
45681-245 Series 65 relay mounting base
45681-246 Series 65 auxiliary relay mounting base
45681-247 Series 65 EOL 12 Volt mounting base
45681-248 Series 65 EOL 24 Volt mounting base

Certificate No: 010h to EN 54-5:2017 + A1:2018, EN 54-7:2018 & CEA 4021:2003

Multi-Sensor/Multi-Criteria Detectors

Certificated Products		LPCB Ref. No.
F850511N	Discovery Analogue Addressable Multisensor Detector (45681-209 and 45681-210 bases) Notes: 1. Certified at the following settings: Mode 1 - High sensitivity smoke detector with standard heat enhancement Mode 2 - Smoke detection only Mode 3 - Medium sensitivity smoke detector with standard heat enhancement Mode 4 - Low sensitivity smoke detector with high heat enhancement Mode 5 - Class A1 heat detector Also approved in conventional alarm modes 1, 2, 3, 4 and 5 2. Approved with Apollo Discovery, XP95, and S90 digital communication protocols that have been configured for the Discovery multisensor detector in accordance with manufacturers instructions.	010h/01

46581-209 XP95/Discovery standard deep mounting base
45681-210 XP95 Mounting base

Certificate No: 010q to EN 54-7:2018

Smoke Detectors

Certificated Products		LPCB Ref. No.
F850508N	Discovery Analogue Addressable Photoelectric Smoke Detector (45681-209 and 45681-210 mounting bases) Note: 1. Meets the requirements of EN54: Part 7 in modes 1, 2, 3, 4 and 5 and inconventional mode. Certified with Apollo Discovery, XP95, and S90 digital communicationprotocols that have	010q/03

Certificated Products		LPCB Ref. No.
	been configured for the Discovery optical smoke detectorsin accordance with manufacturer's instructions.	
F850673N	Series 65 Conventional Optical Smoke Detector(45681-200 mounting base) Note: Also Certified for use with 45681-245, 45681-246, 45681-247, 45681-248and 45681-201 mounting bases	010q/12
F850251N	XP95 Analogue Addressable Optical Smoke Detector(45681-209 and 45681-210 mounting bases)Note: Certified with Apollo Discovery, XP95, and S90 digital communication protocols that have been configured for the Discovery optical smoke detectorsin accordance with manufacturer's instructions.	010q/18

45681-200	Series 60/65 mounting base
45681-201	Series 60/65 diode mounting base
45681-245	Series 65 relay mounting base
45681-246	Series 65 auxiliary mounting base
45681-247	Series 65 EOL 12 Volt mounting base
45681-248	Series 65 EOL 24 Volt mounting base
45681-210	XP95 mounting base
45681-209	XP95/Discovery standard deep mounting base

Computionics Limited (Trading as C-Tec)

Challenge Way, Martland Park, Wigan, Lancashire WD5 0LD, United Kingdom
Tel: +44 (0)1942 322744/42444 • Fax: +44 (0)1942 829867
E-mail: sales@C-tec.co.uk • Website: www.c-tec.co.uk

Certificate No: 176k to EN 54-7:2018 & EN 54-17:2005

Smoke Detectors

Certificated Products		LPCB Ref. No.
CA416	CAST Optical Smoke Detector with Short Circuit Isolator (CA408, CA431A/W, CA456A/W, CA460A/W) Note: 1. Meets the requirements of EN 54-7 at high and medium sensitivity settings.	176k/01
HP416	HP Optical Smoke Detector with Short Circuit Isolator (HP408) Note: 1. Meets the requirements of EN 54-7 at high and medium sensitivity settings.	176k/01

Bases:

CA408	CAST Detector Standard Base
CA431A/W	CAST Base Sounder with Short Circuit Isolator
CA456A/W	CAST Base Sounder VAD with Short Circuit Isolator
CA460A/W	CAST Base VAD with Short Circuit Isolator
HP408	HP Standard Base

A copy of the certificate, confirming the full scope of approval including notes relating to the superscript references in the above table, may be viewed online by clicking on the product name in the associated entry on www.RedBookLive.com

Certificate No: 176m to EN 54-5:2017 + A1:2018, EN 54-7:2018, EN 54-17:2005 & CEA 4021:2003

Multi-Sensor/Multi-Criteria Detectors

Certificated Products		LPCB Ref. No.
CA414	CAST Multisensor Detector with Short Circuit Isolator (CA408, CA431A/W, CA456A/W, CA460A/W) Notes: 1. Meets the requirements of EN 54-5 for Class A2 2. Meets the requirements of EN 54-7 for low, medium and high sensitivity settings	176m/01

Bases:

CA408	CAST Detector Standard Base
CA431A/W	CAST Base Sounder with Short Circuit Isolator
CA456A/W	CAST Base Sounder VAD with Short Circuit Isolator
CA460A/W	CAST Base VAD with Short Circuit Isolator

HP408 HP Standard Base
A copy of the certificate, confirming the full scope of approval including notes relating to the superscript references in the above table, may be viewed online by clicking on the product name in the associated entry on www.RedBookLive.com

Certificate No: 176n to EN 54-5:2017 + A1:2018 & EN 54-17:2005

Certificated Products		LPCB Ref. No.
CA402	CAST Class P Heat Detector with Short Circuit Isolator (CA408, CA431A/W, CA456A/W, CA460A/W) Notes: 1. Meets the requirements of EN 54-5 for Class A1, A1R, A2 & B.	176n/01
HP402	HP Class P Heat Detector with Short Circuit Isolator (HP408) Notes: 1) Meets the requirements of EN 54-5 for Class A1, A1R, A2 & B.	176n/01

Bases:
CA408 CAST Detector Standard Base
CA431A/W CAST Base Sounder with Short Circuit Isolator
CA456A/W CAST Base Sounder VAD with Short Circuit Isolator
CA460A/W CAST Base VAD with Short Circuit Isolator
HP408 HP Standard Base

A copy of the certificate, confirming the full scope of approval including notes relating to the superscript references in the above table, may be viewed online by clicking on the product name in the associated entry on www.RedBookLive.com

---

Consilium Marine and Safety AB

PO Box 8763, Gothenburg SE402 76, Sweden
Tel: +46 31 710 77 64 • Fax: +46 31 710 78 00
E-mail: cmsab@consilium.se • Website: www.consilium.se

Certificate No: 1461d-(cl-1) to EN 54-7:2018, EN 54-5:2017 + A1:2018, CEA 4021:2003

Multi-criteria Detectors

Certificated Products		LPCB Ref. No.
EV-PP	Analogue Addressable Combined Photoelectric Smoke and Class A1 Heat Sensor	1461d/01

Bases:
UB-2 Universal Base
UB-6 Universal Base
A copy of the certificate, confirming the full scope of approval including notes relating to the superscript references in the above table, may be viewed online by clicking on the product name in the associated entry on www.RedBookLive.com

---

Context Plus Limited

Progress House, Newby Road, Hazel Road, Stockport SK7 5DA, United Kingdom
Tel: 01612572541
E-mail: contextplus@xportsales.com • Website: www.contextplus.co.uk

Context Plus Ltd

Progress House, Newby Industrial Estate, Newby Road, Hazel Grove, Stockport SK7 5DA, United Kingdom
Tel: +44 (0)161 257 2541 • Fax: +44 (0)161 225 8817
E-mail: xportsales@xportsales.com • Website: www.xportsales.com

Certificate No: 010u-(cl-2) to EN 54-5: 2000 + A1: 2002

Heat Detectors

Certificated Products		LPCB Ref. No.
55000-465IMC	Analogue addressable Class A2S heat detector 45681-213IMC and 45681-505IMC bases)	010u/04
55000-475IMC	Analogue addressable Class CS heat detector 45681-213IMC and 45681-505IMC bases)	010u/05

Bases
45681-200IMC Mounting base
45681-213IMC Common mounting base
45681-505IMC Negative switching isolating base
45681-210IMC XP95 Mounting base
A copy of the certificate, confirming the full scope of approval including notes relating to the superscript references in the above table, may be viewed online by clicking on the product name in the associated entry on www.RedBookLive.com

Certificate No: 010v-(cl-2) to EN 54-7: 2000 + A1: 2002 + A2: 2006

Smoke Detectors

Certificated Products		LPCB Ref. No.
55000-665IMC	Analogue addressable optical smoke 45681-213IMC and 45681-505IMC bases)	010v/02

Bases
45681-200IMC Mounting base
45681-210IMC XP95 Mounting base
45681-213IMC Common mounting base
45681-505IMC Negative switching isolating base

CA408/CON CAST Detector Standard Base
A copy of the certificate, confirming the full scope of approval including notes relating to the superscript references in the above table, may be viewed online by clicking on the product name in the associated entry on www.RedBookLive.com

Certificate No: 010m-(cl-3) to EN 54-7:2018 & CEA 4021: 2003

Multi-Sensor/Multi-Criteria Detectors

Certificated Products		LPCB Ref. No.
55000-885	XP95 Multisensor Smoke Detector (45681-210 Mounting Base)Certified with Apollo XP95 and S90 digital communication protocols that have been configured for the XP95 multisensor detector in accordance with manufacturers instructions.	010m/01

45681-210 XP95 Mounting base
CA408/CON CAST Detector Standard Base
A copy of the certificate, confirming the full scope of approval including notes relating to the superscript references in the above table, may be viewed online by clicking on the product name in the associated entry on www.RedBookLive.com

Certificate No: 176k-(cl-1) to EN 54-7:2018, EN 54-17:2005

Certificated Products		LPCB Ref. No.
CA416/CON	CAST Optical Smoke Detector with Short Circuit Isolator (CA408/CON) Note: 1. Meets the requirements of EN 54-7 at high and medium sensitivity settings.	176k/01

Base

CA408/CON CAST Detector Standard Base

A copy of the certificate, confirming the full scope of approval including notes relating to the superscript references in the above table, may be viewed online by clicking on the product name in the associated entry on www.RedBookLive.com

Certificate No: 176m-(cl-1) to EN 54-7:2018, EN 54-5:2017 + A1:2018, EN 54-17:2005, CEA 4021:2003

Certificated Products		LPCB Ref. No.
CA414/CON	CAST Multisensor Detector with Short Circuit Isolator (CA408/CON) Notes: 1) Meets the requirements of EN 54-5 for Class A2 2) Meets the requirements of EN 54-7 for low, medium and high sensitivity settings	176m/01

Base

CA408/CON CAST Detector Standard Base

A copy of the certificate, confirming the full scope of approval including notes relating to the superscript references in the above table, may be viewed online by clicking on the product name in the associated entry on www.RedBookLive.com

Certificate No: 176n-(cl-1) to EN 54-5:2017 + A1:2018, EN 54-17:2005

Certificated Products		LPCB Ref. No.
CA402/CON	CAST Class P Heat Detector with Short Circuit Isolator (CA408/CON) Notes: 1) Meets the requirements of EN 54-5 for Class A1, A1R, A2 & B	176n/01

Base

CA408/CON CAST Detector Standard Base

A copy of the certificate, confirming the full scope of approval including notes relating to the superscript references in the above table, may be viewed online by clicking on the product name in the associated entry on www.RedBookLive.com

Certificate No: 010p-(cl-4) to EN 54-5: 2017 + A1: 2018

Heat Detectors

Certificated Products		LPCB Ref. No.
55000-400IMC	XP95 Analogue addressable Category A2S heat detector (45681-210IMC mounting base) Certifiied with XP95 digital communications protocol.	010p/20

Bases

45681-210IMC XP95 Mounting base

A copy of the certificate, confirming the full scope of approval including notes relating to the superscript references in the above table, may be viewed online by clicking on the product name in the associated entry on www.RedBookLive.com

Certificate No: 010q-(cl-4) to EN 54-7:2018

Smoke Detectors

Certificated Products		LPCB Ref. No.
55000-600IMC	XP95 Analogue Addressable Optical Smoke Detector (45681-210IMC Mounting base) Certificated with XP95 digital communication protocol.	010q/18

Bases

45681-210IMC XP95 Mounting base

A copy of the certificate, confirming the full scope of approval including notes relating to the superscript references in the above table, may be viewed online by clicking on the product name in the associated entry on www.RedBookLive.com

Cooper Sécurité SAS

Parc Européen d'Entreprises II, Rue Beethoven, BP 10184, 63204 Riom Cedex, France
Tel: +44 (0)1302 3397 • Fax: +44 (0)1302 303220
E-mail: phillipwilliams@eaton.com

Certificate No: 685j-(cl-3) to EN 54-7: 2018 and EN 54-17: 2005

Point Smoke Detectors

Certificated Products		LPCB Ref. No.
DOFA3000	Intelligent analogue addressable photoelectric smoke detector and NUG30258 bases)	685j/01

Bases
NUG30256 Standard analogue addressable mounting base
NUG30255 Standard conventional mounting base
NUG30257 Double contact standard conventional mounting base
NUG30258 Double contact standard analogue addressable mounting base
A copy of the certificate, confirming the full scope of approval including notes relating to the superscript references in the above table, may be viewed online by clicking on the product name in the associated entry on www.RedBookLive.com

Certificate No: 685m-(cl-3) to EN 54-5: 2017 + A1: 2018 and EN 54-17: 2005

Heat Detectors

Certificated Products		LPCB Ref. No.
DTVA3000	Intelligent analogue addressable Category P heat detector (NUG30256 and NUG30258 bases) *Notes:* *1. Meets the requirements of EN 54-5 at Categories A1R, BS and CS*	685m/01

Bases
NUG30256 Single contact standard analogue addressable mounting base
NUG30258 Double contact standard analogue addressable mounting base

A copy of the certificate, confirming the full scope of approval including notes relating to the superscript references in the above table, may be viewed online by clicking on the product name in the associated entry on www.RedBookLive.com

Certificate No: 685k-(cl-3) to EN 54-5: 2017 + A1: 2018, EN 54-7: 2018 , EN 54-17: 2005 and CEA4021: July 2003(en)

Multi-Criteria Detectors

Certificated Products		LPCB Ref. No.
DMCFA3000	Intelligent analogue addressable Category A2S multisensor opto/heat detector (NUG30256 and NUG30258 bases) *Notes:* *1. Meets the requirements of EN 54-5 and EN 54-7 in the following modes:* *Mode 1 - Photoelectric/heat combined only* *Mode 2 - Photoelectric/heat combined together with an alarm output from temperature alone (Category A2S)* *Mode 3 - Heat detector alone (Category A2S)*	685k/01

Bases
NUG30256 Standard analogue addressable mounting base
NUG30255 Standard conventional mounting base
NUG30257 Double contact standard conventional mounting base
NUG30258 Double contact standard analogue addressable mounting base
A copy of the certificate, confirming the full scope of approval including notes relating to the superscript references in the above table, may be viewed online by clicking on the product name in the associated entry on www.RedBookLive.com

Certificate No: 685a-(cl-3) to EN 54-5: 2017+ A1: 2018

Point Heat Detectors

Certificated Products		LPCB Ref. No.
DTVS3000	Conventional Category A2R heat detector (NUG30255 and NUG30257 bases)	685a/01
DTS77°S3000	Conventional Category BS heat detector (NUG30255 and NUG30257 bases)	685a/02
DTS90°S3000	Conventional Category CS heat detector (NUG30255 and NUG30257 bases)	685a/03

Bases
NUG30255 Standard conventional mounting base
NUG30257 Double contact standard conventional mounting base
A copy of the certificate, confirming the full scope of approval including notes relating to the superscript references in the above table, may be viewed online by clicking on the product name in the associated entry on www.RedBookLive.com

Certificate No: 685g-(cl-3) to EN 54-5:2017+A1:2018, EN 54-7:2018, CEA 4021:2003

Certificated Products		LPCB Ref. No.
DMCFS3000	Conventional photo/thermal multisensor and Category A2S heat detector (NUG30255 and NUG30257 bases)	685g/01

Bases:

NUG30255	Single contact standard conventional mounting base
NUG30257	Double contact standard conventional mounting base

A copy of the certificate, confirming the full scope of approval including notes relating to the superscript references in the above table, may be viewed online by clicking on the product name in the associated entry on www.RedBookLive.com

Certificate No: 1260b-(cl-1) to EN 54-5:2017+A1:2018, EN 54-7:2018, EN 54-17:2005, CEA 4021:2003

Certificated Products		LPCB Ref. No.
DMCFA3000	Intelligent Analogue Addressable Category A2S Multisensor Opto/Heat Detector with Short Circuit isolator (NUG30256 and NUG30258 bases) Notes: 1. Meets the requirements of EN 54-5 and EN 54-7 in the following modes: Mode 2 Photoelectric/Heat combined together with an alarm output from temperature alone (Category A2S) Mode 3 Heat detector alone (Category A2S)	1260b/01

Bases

NUG30256	Single contact standard analogue addressable mounting base
NUG30258	Double contact standard analogue addressable mounting base

A copy of the certificate, confirming the full scope of approval including notes relating to the superscript references in the above table, may be viewed online by clicking on the product name in the associated entry on www.RedBookLive.com

Certificate No: 685h-(cl-3) to EN 54-7:2018

Certificated Products		LPCB Ref. No.
DOFS3000	Conventional photoelectric smoke detector (NUG30255 and NUG30257 bases)	685h/01

Bases:

NUG30255	Single contact standard conventional mounting base
NUG30257	Double contact standard conventional mounting base

A copy of the certificate, confirming the full scope of approval including notes relating to the superscript references in the above table, may be viewed online by clicking on the product name in the associated entry on www.RedBookLive.com

Certificate No: 1260a-(cl-1) to EN 54-7:2018, EN 54-17:2005

Certificated Products		LPCB Ref. No.
DOFA3000	Intelligent Analogue Addressable Photoelectric Smoke Detector with Short Circuit Isolator (NUG30256 and NUG30258 bases)	1260a/01

Bases

NUG30256 Single contact standard analogue addressable mounting base
NUG30258 Double contact standard analogue addressable mounting base

A copy of the certificate, confirming the full scope of approval including notes relating to the superscript references in the above table, may be viewed online by clicking on the product name in the associated entry on www.RedBookLive.com

Certificate No: 1260c-(cl-1) to EN 54-5:2017+A1:2018, EN 54-17:2005

Certificated Products		LPCB Ref. No.
DTVA3000	Intelligent Analogue Addressable Category P Heat Detector with Short Circuit Isolator (NUG30256 and NUG30258 bases) Notes: 1. Meets the requirements of EN 54-5 at Categories A1R, BS and CS	1260c/01

Bases

NUG30256 Single contact standard analogue addressable mounting base
NUG30258 Double contact standard analogue addressable mounting base

A copy of the certificate, confirming the full scope of approval including notes relating to the superscript references in the above table, may be viewed online by clicking on the product name in the associated entry on www.RedBookLive.com

---

DEF..

7, rue du Saule Trapu, MASSY 91300, France
Tel: +33 (0) 160136772
E-mail: frederic.chateau@coflec.com

Certificate No: 1549g-(cl-1) to EN 54-7:2018, EN 54-17:2005 & EN 54-18:2005

Smoke Detectors

Certificated Products		LPCB Ref. No.
LOA	Smoke Detector with Short Circuit Isolator and Input/Output device (FC012M and FC039M bases) Note: 1. Certified at the following EN 54-7 sensitivity settings: - Behaviour 1: High sensitivity - Behaviour 2: Medium sensitivity - Behaviour 3: Standard sensitivity - Behaviour 4: Low sensitivity 2. The product complies with EN 54-18 only when the base FC039M (SHUNT & output relay NO or SHUNT & output relay NC) is used	1549g/01

FC012M Base with screw terminal
FC039M Base with options; with SHUNT, SHUNT & output relay NO, SHUNT & output relay NC

A copy of the certificate, confirming the full scope of approval including notes relating to the superscript references in the above table, may be viewed online by clicking on the product name in the associated entry on www.RedBookLive.com

Certificate No: 1549d-(cl-1) to EN 54-5:2017 + A1:2018, EN 54-7:2018, EN 54-17:2005, EN 54-18:2005 & EN 54-29:2015

Multi-Sensor/Multi-Criteria Detectors

Certificated Products		LPCB Ref. No.
LOTA	Multi-Sensor Detector with Short Circuit Isolator and Input/Output device (FC012M and FC039M bases) Notes:	1549d/01

Certificated Products		LPCB Ref. No.
	1. Certified at the following settings for EN 54-29: - Behaviour 1: Medium sensitivity & normal heat combination - Behaviour 2: Medium sensitivity & high heat combination - Behaviour 3: Standard sensitivity & normal heat combination - Behaviour 4: Standard sensitivity & high heat combination - Behaviour 5: Low sensitivity & normal heat combination - Behaviour 6: Low sensitivity & high heat combination 2. Meets the requirements of EN 54-5 for the following settings: - Behaviour 7: A1S - Behaviour 8: A2S - Behaviour 9: BS - Behaviour 10: A1R - Behaviour 11: A2R - Behaviour 12: BR 3. Certified at the following EN 54-7 sensitivity settings: - Behaviour 13: High sensitivity - Behaviour 14: Medium sensitivity - Behaviour 15: Standard sensitivity - Behaviour 16: Low sensitivity 4. The product complies with EN 54-18 only when the base FC039M (SHUNT & output relay NO or SHUNT & output relay NC) is used	
LOTAI	Multi-Sensor Detector with Short Circuit Isolator and Input/Output device (FC012M and FC039M bases) Notes: 1. Certified at the following settings for EN 54-29: - Behaviour 1: Medium sensitivity & normal heat combination - Behaviour 2: Medium sensitivity & high heat combination - Behaviour 3: Standard sensitivity & normal heat combination - Behaviour 4: Standard sensitivity & high heat combination - Behaviour 5: Low sensitivity & normal heat combination - Behaviour 6: Low sensitivity & high heat combination 2. Meets the requirements of EN 54-5 for the following settings: - Behaviour 7: A1S - Behaviour 8: A2S - Behaviour 9: BS - Behaviour 10: CS - Behaviour 11: A1R - Behaviour 12: A2R - Behaviour 13: BR - Behaviour 14: CR 3. Certified at the following EN 54-7 sensitivity settings: - Behaviour 15: High sensitivity - Behaviour 16: Medium sensitivity - Behaviour 17: Standard sensitivity - Behaviour 18: Low sensitivity 4. The product complies with EN 54-18 only when the base FC039M (SHUNT & output relay NO or SHUNT & output relay NC) is used	1549d/02

FC012M Base with screw terminal
FC039M Base with options; with SHUNT, SHUNT & output relay NO, SHUNT & output relay NC
A copy of the certificate, confirming the full scope of approval including notes relating to the superscript references in the above table, may be viewed online by clicking on the product name in the associated entry on www.RedBookLive.com

Certificate No: 1324e-(cl-1) to EN 54-12:2015

Linear Heat Detection System

Certificated Products		LPCB Ref. No.
E-BEAM (R)	Linear Smoke Detector, Relay Version Note: 1. Meets the requirements of EN 54-12:2015 at the following sensitivity settings: a. Setting No. 4 (default) - 1.33 dB attenuation (3 to 100 m) b. Setting No. 5 - 1.60 dB attenuation (8 to 100 m) c. Setting No. 6 - 2.00 dB attenuation (8 to 100 m)	1324e/01

A copy of the certificate, confirming the full scope of approval including notes relating to the superscript references in the above table, may be viewed online by clicking on the product name in the associated entry on www.RedBookLive.com

Certificate No: 1549h-(cl-1) to EN 54-5:2017 + A1:2018, EN 54-7:2018, EN 54-17:2005, EN 54-18:2005 & EN 54-31:2014 + A1:2016

Multi-Sensor/Multi-Criteria Detectors

Certificated Products		LPCB Ref. No.
LOTCA	Addressable Multi-sensor Point Detector with Short Circuit Isolator and Input/Output Device (FC012M and FC039M bases) Note: 1. Certified at the following settings for EN 54-31: - Behaviour 1: High sensitivity & CO combination & normal heat combination - Behaviour 2: Medium sensitivity & CO combination & high heat combination - Behaviour 3: Standard sensitivity & CO combination & normal heat combination - Behaviour 4: Dur & CO combination & high heat combination 2. Meets the requirements of EN 54-5 for the following settings: - Behaviour 5: A1S - Behaviour 6: A2S - Behaviour 7: A1R - Behaviour 8: A2R 3. Certified at the following EN 54-7 sensitivity settings: - Behaviour 9: Very sensitive - Lowest response values - Behaviour 10: Sensitive - Intermediate response values - Behaviour 11: Standard - Intermediate response values - Behaviour 12: Hard - Highest response values 4. The product complies with EN 54-18 only when the base FC039M (SHUNT & output relay NO or SHUNT & output relay NC) is used	1549h/01

FC012M Base with screw terminal
FC039M Base with options; with SHUNT, SHUNT & output relay NO, SHUNT & output relay NC
A copy of the certificate, confirming the full scope of approval including notes relating to the superscript references in the above table, may be viewed online by clicking on the product name in the associated entry on www.RedBookLive.com

---

Detect Fire LLC

1050 Temple Ave, Colonial Heights, Virginia 23834, USA
Tel: 804-417-2244
E-mail: marketing@detectfire.info • Website: http://detectfire.info/

Certificate No: 1283a(cl-4) to EN 54-12: 2002

Beam Detectors

Certificated Products		LPCB Ref. No.
DF 800	Conventional Optical Beam Smoke Detector (Double Pass) *Notes:* *1. Meets the requirements of EN 54-12 at the following sensitivity settings only:* *- 18% obscuration high sensitivity at between 5-20m* *- 30% obscuration medium sensitivity at between 20-100m* *2. Suitable for use with E39-R8 prismatic reflector over distances from 5 to 50m* *3. Suitable for use with 4 x E39-R8 set of reflectors over distances from 50 to 100m*	1283a/01

A copy of the certificate, confirming the full scope of approval including notes relating to the superscript references in the above table, may be viewed online by clicking on the product name in the associated entry on www.RedBookLive.com

---

Detectomat Systems GmbH..

An der Strusbek 3, Ahrensburg, Hamburg 22926, Germany
Tel: +49 41 02 21 14 60 • Fax: +49 4102 2114 670
E-mail: zulassung@detectomat.com

Certificate No: 1549g-(cl-2) to EN 54-7:2018, EN 54-17:2005 & EN 54-18:2005

Smoke Detectors

Certificated Products		LPCB Ref. No.
OA15	Smoke Detector with Short Circuit Isolator and Input/Output device (FC012M and FC039M bases) Note: 1. Certified at the following EN 54-7 sensitivity settings: - Behaviour 1: High sensitivity - Behaviour 2: Medium sensitivity - Behaviour 3: Standard sensitivity - Behaviour 4: Low sensitivity 2. The product complies with EN 54-18 only when the base FC039M (SHUNT & output relay NO or SHUNT & output relay NC) is used	1549g/02

FC012M Base with screw terminal
FC039M Base with options; with SHUNT, SHUNT & output relay NO, SHUNT & output relay
A copy of the certificate, confirming the full scope of approval including notes relating to the superscript references in the above table, may be viewed online by clicking on the product name in the associated entry on www.RedBookLive.com

Certificate No: 1549e-(cl-1) to EN 54-17:2005, EN 54-18:2005 & EN 54-29:2015

Multi-Sensor/Multi-Criteria Detectors

Certificated Products		LPCB Ref. No.
MA15	Multi-Sensor Detector with Short Circuit Isolator and Input/Output device (FC012M and FC039M bases) Note: 1. Certified at the following settings for EN 54-29: - Behaviour 1: Medium sensitivity & normal heat combination - Behaviour 2: Medium sensitivity & high heat combination - Behaviour 3: Standard sensitivity & normal heat combination - Behaviour 4: Standard sensitivity & high heat combination - Behaviour 5: Low sensitivity & normal heat combination - Behaviour 6: Low sensitivity & high heat combination 2. The product complies with EN 54-18 only when the base FC039M (SHUNT & output relay NO or SHUNT & output relay NC) is used	1549e/01

FC012M Base with screw terminal
FC039M Base with options; with SHUNT, SHUNT & output relay NO, SHUNT & output relay NC

A copy of the certificate, confirming the full scope of approval including notes relating to the superscript references in the above table, may be viewed online by clicking on the product name in the associated entry on www.RedBookLive.com

Certificate No: 1549f-(cl-1) to EN 54-5:2017 + A2:2018, EN 54-17:2005 & EN 54-18:2005

Heat Detectors

Certificated Products		LPCB Ref. No.
TA15	Heat Detector with Short Circuit Isolator and Input/Output device (FC012M and FC039M bases) Note: 1. Meets the requirements of EN 54-5 for the following settings: - Behaviour 1: A1S - Behaviour 2: A2S - Behaviour 3: BS - Behaviour 4: A1R - Behaviour 5: A2R - Behaviour 6: BR 2. The product complies with EN 54-18 only when the base FC039M (SHUNT & output relay NO or SHUNT & output relay NC) is used	1549f/01

FC012M Base with screw terminal
FC039M Base with options; with SHUNT, SHUNT & output relay NO, SHUNT & output relay NC
A copy of the certificate, confirming the full scope of approval including notes relating to the superscript references in the above table, may be viewed online by clicking on the product name in the associated entry on www.RedBookLive.com

Detector Electronics Corporation

6901 West 110th Street, Minneapolis, Minesota 55438, USA
Tel: +001 952 946 6488
E-mail: detronics@detronics.com • Website: www.det-tronics.com

Certificate No: 973a to EN 54-10: 2002 + A1: 2005 and EN 54-17: 2005

Certificated Products		LPCB Ref. No.
X9800	Analogue Addressable IR Flame Detector with Short Circuit Isolator *Notes:* *1. The isolation is applied on the LON communication transmission path and not the power transmission path. Refer to the manufacturers installation document 95-8642 with respect to the number of devices to be connected in a group or zone.* *2. Meets the requirements of EN 54-10:2002 Class 1 at High and Very High sensitivity settings for IR sensor only.* *3. Meets the requirements of EN 54-10:2002 Class 2 at Medium, High and Very High sensitivity settings for IR sensor only.* *4. Meets the requirements of EN 54-10:2002 Class 3 at Low, Medium, High and Very High sensitivity settings for IR sensor only.*	973a/01
X5200	Analogue Addressable UV/IR Flame Detector with Short Circuit Isolator *Notes:* *1. The isolation is applied on the LON communication transmission path and not the power transmission path. Refer to the manufacturers installation document 95-8642 with respect to the number of devices to be connected in a group or zone.* *2. Meets the requirements of EN 54-10:2002 Class 1 at any combination of High and Very High sensitivity settings for UV and IR sensors only.* *3. Meets the requirements of EN 54-10:2002 Class 2 at any combination of Medium, High and Very High sensitivity settings for UV and IR sensors only.* *4. Meets the requirements of EN 54-10:2002 Class 3 at any combination of Low, Medium, High and Very High sensitivity settings for UV and IR sensors only.*	973a/02
X3301	Analogue Addressable Multispectrum IR Flame Detector with Short Circuit Isolator *Notes:* *1. The isolation is applied on the LON communication transmission path and not the power transmission path. Refer to the manufacturers installation document 95-8642 with respect to the number of devices to be connected in a group or zone.* *Meets the requirements of EN 54-10:2002 Class 1, Class 2 and Class 3: Medium, High, Very High, Hangar Mode Medium, Hangar Mode High, Hangar mode Very High sensitivity levels.*	973a/03
X2200	Analogue Addressable UV Flame Detector with Short Circuit Isolator *Notes:* *1. The isolation is applied on the LON communication transmission path and not the power transmission path. Refer to the manufacturers installation document 95-8642 with respect to the number of devices to be connected in a group or zone.* *2. Meets the requirements of EN 54-10:2002 Class 1 at High and Very High sensitivity settings for UV sensor only.* *3. Meets the requirements of EN 54-10:2002 Class 2 at Medium, High and Very High sensitivity settings for UV sensor only.* *4. Meets the requirements of EN 54-10:2002 Class 3 at Low, Medium, High and Very High sensitivity settings for UV sensor only.*	973a/04
X5200G	Analogue Addressable UV/IR Flame Detector with Short Circuit Isolator *Notes:* *1. The isolation is applied on the LON communication transmission path and not the power transmission path. Refer to the manufacturers installation document 95-8642 with respect to the number of devices to be connected in a group or zone.* *2. Meets the requirements of EN 54-10:2002 Class 1 at any combination of High and Very High sensitivity settings for UV and IR sensors only.* *3. Meets the requirements of EN 54-10:2002 Class 2 at any combination of Medium, High and Very High sensitivity settings for UV and IR sensors only.* *4. Meets the requirements of EN 54-10:2002 Class 3 at any combination of Low, Medium, High and Very High sensitivity settings for UV and IR sensors only.*	973a/05
X2200G	Analogue Addressable UV Flame Detector with Short Circuit Isolator *Notes:* *1. The isolation is applied on the LON communication transmission path and not the power transmission path. Refer to the manufacturers installation document 95-8642 with respect to the number of devices to be connected in a group or zone.* *2. Meets the requirements of EN 54-10:2002 Class 1 at High and Very High sensitivity settings for UV sensor only.* *3. Meets the requirements of EN 54-10:2002 Class 2 at Medium, High and Very*	973a/06

Certificated Products		LPCB Ref. No.
	High sensitivity settings for UV sensor only. *4. Meets the requirements of EN 54-10:2002 Class 3 at Low, Medium, High and Very High sensitivity settings for UV sensor only.*	
X9800	Conventional IR Flame Detector *Notes:* *1. Meets the requirements of EN 54-10:2002 Class 1 at High and Very High sensitivity settings for IR sensor only.* *2. Meets the requirements of EN 54-10:2002 Class 2 at Medium, High and Very High sensitivity settings for IR sensor only.* *3. Meets the requirements of EN 54-10:2002 Class 3 at Low, Medium, High and Very High sensitivity settings for IR sensor only.*	973e/01
X5200	Conventional UV / IR Flame Detector *Notes:* *1. Meets the requirements of EN 54-10:2002 Class 1 at any combination of High and Very High sensitivity settings for UV and IR sensors only.* *2. Meets the requirements of EN 54-10:2002 Class 2 at any combination of Medium, High and Very High sensitivity settings for UV and IR sensors only.* *3. Meets the requirements of EN 54-10:2002 Class 3 at any combination of Low, Medium, High and Very High sensitivity settings for UV and IR sensors only.*	973e/02
X3301	Conventional Multispectrum IR Flame Detector *Note:* *Meets the requirements of EN 54-10:2002 Class 1, Class 2 and Class 3: Medium, High, Very High, Hangar Mode Medium, Hangar Mode High, Hangar mode Very High sensitivity levels.*	973e/03
X2200	Conventional UV Flame Detector *Notes:* *1. Meets the requirements of EN 54-10:2002 Class 1 at High and Very High sensitivity settings for UV sensor only.* *2. Meets the requirements of EN 54-10:2002 Class 2 at Medium, High and Very High sensitivity settings for UV sensor only.* *3. Meets the requirements of EN 54-10:2002 Class 3 at Low, Medium, High and Very High sensitivity settings for UV sensor only.*	973e/04
X5200G	Conventional UV/IR Flame Detector *Notes:* *1. Meets the requirements of EN54-10: 2002 Class 1, 2 and 3 at any combination of High and Very High sensitivity settings for UV and IR sensors only.* *2. Meets the requirements of EN 54-10:2002 Class 2 at any combination of Medium, High and Very High sensitivity settings for UV and IR sensors only.* *3. Meets the requirements of EN 54-10:2002 Class 3 at any combination of Low, Medium, High and Very High sensitivity settings for UV and IR sensors only.*	973e/05
X2200G	Conventional UV Flame Detector *Note:* *1. Meets the requirements of EN 54-10:2002 Class 1 at High and Very High sensitivity settings for UV sensor only.* *2. Meets the requirements of EN 54-10:2002 Class 2 at Medium, High and Very High sensitivity settings for UV sensor only.* *3. Meets the requirements of EN 54-10:2002 Class 3 at Low, Medium, High and Very High sensitivity settings for UV sensor only.*	973e/06
X3302	Conventional Multispectrum IR Flame Detector Note: Meets the requirements of EN 54-10:2002 Class 3 at Very high sensitivity setting in Regular and Sustained mode only.	973e/07

Bases:
Q9033 Mounting Arm

A copy of the certificate, confirming the full scope of approval including notes relating to the superscript references in the above table, may be viewed online by clicking on the product name in the associated entry on www.RedBookLive.com

Certificate No: 973e to EN 54-10:2002 + A1:2005

Certificated Products		LPCB Ref. No.
X9800	Conventional IR Flame Detector Notes: 1. Meets the requirements of EN 54-10:2002 Class 1 at High and Very High sensitivity settings for IR sensor only. 2. Meets the requirements of EN 54-10:2002 Class 2 at Medium, High and Very High sensitivity settings for IR sensor only. Meets the requirements of EN 54-10:2002 Class 3 at Low, Medium, High and Very High	973e/01

Certificated Products		LPCB Ref. No.
	sensitivity settings for IR sensor only.	
X5200	Conventional UV/IR Flame Detector Notes: 1. Meets the requirements of EN 54-10:2002 Class 1 at any combination of High and Very High sensitivity settings for UV and IR sensors only. 2. Meets the requirements of EN 54-10:2002 Class 2 at any combination of Medium, High and Very High sensitivity settings for UV and IR sensors only. Meets the requirements of EN 54-10:2002 Class 3 at any combination of Low, Medium, High and Very High sensitivity settings for UV and IR sensors only.	973e/02
X3301	Conventional Multispectrum IR Flame Detector Note: Meets the requirements of EN 54-10:2002 Class 1, Class 2 and Class 3: Medium, High, Very High, Hangar Mode Medium, Hangar Mode High, Hangar mode Very High sensitivity levels.	973e/03
X2200	Conventional UV Flame Detector Notes: 1. Meets the requirements of EN 54-10:2002 Class 1 at High and Very High sensitivity settings for UV sensor only. 2. Meets the requirements of EN 54-10:2002 Class 2 at Medium, High and Very High sensitivity settings for UV sensor only. Meets the requirements of EN 54-10:2002 Class 3 at Low, Medium, High and Very High sensitivity settings for UV sensor only.	973e/04
X5200G	Conventional UV/IR Flame Detector Notes: 1. Meets the requirements of EN 54-10:2002 Class 1 at any combination of High and Very High sensitivity settings for UV and IR sensors only. 2. Meets the requirements of EN 54-10:2002 Class 2 at any combination of Medium, High and Very High sensitivity settings for UV and IR sensors only. Meets the requirements of EN 54-10:2002 Class 3 at any combination of Low, Medium, High and Very High sensitivity settings for UV and IR sensors only.	973e/05
X2200G	Conventional UV Flame Detector Note: 1. Meets the requirements of EN 54-10:2002 Class 1 at High and Very High sensitivity settings for UV sensor only. 2. Meets the requirements of EN 54-10:2002 Class 2 at Medium, High and Very High sensitivity settings for UV sensor only. Meets the requirements of EN 54-10:2002 Class 3 at Low, Medium, High and Very High sensitivity settings for UV sensor only.	973e/06
X3302	Conventional Multispectrum IR Flame Detector Note: Meets the requirements of EN 54-10:2002 Class 3 at Very high sensitivity setting in Regular and Sustained mode only	973e/07

Ancillary

Q9033	Mounting Arm

A copy of the certificate, confirming the full scope of approval including notes relating to the superscript references in the above table, may be viewed online by clicking on the product name in the associated entry on www.RedBookLive.com

---

Eaton Electrical Products Limited

Llantarnam Park, Cwmbran, Gwent NP44 3AW, United Kingdom
Tel: +44 (0)1633 628500 • Fax: +44 (0)1633 866346
E-mail: sales@fulleon.co.uk • Website: www.cooperfulleon.com

Certificate No: 378m to EN 54-5: 2017+ A1: 2018, EN 54-7: 2018, CEA 4021: 2003

Certificated Products		LPCB Ref. No.
FIRECAT	Conventional Multi-Sensor Smoke / Heat Detector (FIRECAT Base) *Notes:* *1. Meets the requirements of EN 54-7 at the following settings:*	378m/01

Certificated Products		LPCB Ref. No.
	S1 - High sensitivity (optical smoke only) 0.10dB/m *S2 - Low sensitivity dual multi-sensor (smoke enhanced by heat and class A2S heat detector) 0.15dB/m* *2. Meets the requirements of EN 54-5 at the following settings:* *M1 - Heat detector Category A1R* *M2 - Heat detector Category BS*	
EFXN632	Conventional Photo/Thermal Multisensor and Category A2S Heat Detector (EFDB800 and EFXN520 Bases)	378m/02
FXN922	Conventional Photo/Thermal Multisensor and Category P Heat Detector (EFDB800 and EFXN520 Bases) *Notes:* *1. Meets the requirements of EN 54-7 in the following modes:* *Mode 1 Thermally enhanced optical smoke detector* *Smoke sensitivity 0.15dB/m* *Mode 2 Optical smoke detector* *Smoke sensitivity 0.1 dB/m* *2. Meets the requirements of EN 54-5 in the following modes:* *Mode 3 Heat detector Category A1R* *Mode 4 Heat detector Category BS* *Mode 5 Heat detector Category CS*	378m/03
EFBW5IN1DET	Conventional Photo/Thermal Multisensor and Category P Heat Detector (EFDB800 and EXFN520 Bases) *Notes:* *1. Meets the requirements of EN 54-7 in the following modes: Mode 1 Thermally enhanced optical smoke detector* *Smoke sensitivity 0.15dB/m* *Mode 2 Optical smoke detector* *Smoke sensitivity 0.1 dB/m* *2. Meets the requirements of EN 54-5 in the following modes:* *Mode 3 Heat detector Category A1R* *Mode 4 Heat detector Category BS* *Mode 5 Heat detector Category CS*	378m/04

Bases

EFDB800 Single Contact Standard Conventional Mounting Base (Zener Diode)
EFXN520 Single Contact Conventional Mounting Base (Schottky Diode)

A copy of the certificate, confirming the full scope of approval including notes relating to the superscript references in the above table, may be viewed online by clicking on the product name in the associated entry on www.RedBookLive.com

Certificate No: 378aa to EN 54-12: 2015

Beam Detectors

Certificated Products		LPCB Ref. No.
EF-CBD130	Conventional Reflective Beam Detector *Notes:* *1. Meets the requirements of EN 54-12: 2015 at the following sensitivity settings:* *- Level 1: 2.6 dB High sensitivity* *- Level 2: 3.8 dB Medium sensitivity* *- Level 3: 5.8 dB Low sensitivity* *2. Suitable for use at the following separation ranges:* *- Span 1: 8 to 20 meters Short Path (1 x mirror reflector required)* *- Span 2: 20 to 40 meters Short Path (1 x mirror reflector required)* *- Span 3: 40 to 70 meters Normal Path (4 x mirror reflector required)* *- Span 4: 70 to 100 meters Long Path (4 x mirror reflector required)*	378aa/01

Accessories

EF-CBD-M - Mounting Bracket
EF-CBM-R1- 1x Mirror Reflector
EF-CBM-R4- 4x Mirror Reflector

A copy of the certificate, confirming the full scope of approval including notes relating to the superscript references in the above table, may be viewed online by clicking on the product name in the associated entry on www.RedBookLive.com

Certificate No: 378v to 54-7:2018, EN 54-17:2005

Certificated Products		**LPCB Ref. No.**
CAP320	Intelligent Analogue Addressable Photoelectric Smoke Detector with Short Circuit Isolator (CAB300 Base) - (Cooper)	378v/01
COPP420	Intelligent Analogue Addressable Photoelectric Smoke Detector with Short Circuit Isolator (COPA800 Base)	378v/01
FXN723	Intelligent Analogue Addressable Photoelectric Smoke Detector with Short Circuit Isolator (FXN720 Bases) - (JSB)	378v/01
MAP820	Intelligent Analogue Addressable Photoelectric Smoke Detector with Short Circuit Isolator (MAB800 Bases) - (Menvier)	378v/01
CAP320	Intelligent Analogue Addressable Photoelectric Smoke Detector with Short Circuit Isolator (CAB300 Base) - (Cooper)	378v/02
COPP420	Intelligent Analogue Addressable Photoelectric Smoke Detector with Short Circuit Isolator (COPA800 Base)	378v/02
FXN723	Intelligent Analogue Addressable Photoelectric Smoke Detector with Short Circuit Isolator (FXN720 Bases) - (JSB)	378v/02
MAP820	Intelligent Analogue Addressable Photoelectric Smoke Detector with Short Circuit Isolator (MAB800 Bases) - (Menvier)	378v/02

Bases

MAB800 (Menvier) -Single contact standard analogue addressable mounting base
FXN720 (JSB) -Single contact standard analogue addressable mounting base
CAB300 (Cooper)-Single contact standard analogue addressable mounting base
COPA800 -Single contact standard analogue addressable mounting base

A copy of the certificate, confirming the full scope of approval including notes relating to the superscript references in the above table, may be viewed online by clicking on the product name in the associated entry on www.RedBookLive.com

Certificate No: 378w to EN 54-5:2017 + A1:2018, EN 54-7:2018 EN 54-17:2005 CEA 4021:2003

Certificated Products		**LPCB Ref. No.**
CAPT340	Intelligent Analogue Addressable Category A2S Multisensor Opto/Heat Detector with Short Circuit Isolator (CAB300 base) (Cooper) *Notes: 1. Meets the requirements of EN 54-5 and EN 54-7 in the following modes: Mode 2 Photoelectric/Heat combined together with an alarm output from temperature alone (Category A2S)* *Mode 3 Heat Detector alone Category A2S)*	378w/01
COPOH450	Intelligent Analogue Addressable Category A2S Multisensor Opto/Heat Detector with Short Circuit Isolator (COPA800 base) *Notes: 1. Meets the requirements of EN 54-5 and EN 54-7 in the following modes: Mode 2 Photoelectric/Heat combined together with an alarm output from temperature alone (Category A2S)* *Mode 3 Heat Detector alone (Category A2S)*	378w/01
FXN722	Intelligent Analogue Addressable Category A2S Multisensor Opto/Heat Detector with Short Circuit Isolator (FXN720 bases) - (JSB) *Notes: 1. Meets the requirements of EN 54-5 and EN 54-7 in the following modes: Mode 2 Photoelectric/Heat combined together with an alarm output from temperature alone (Category A2S)* *Mode 3 Heat Detector alone (Category A2S)*	378w/01
MAOH850	Intelligent Analogue Addressable Category A2S Multisensor Opto/Heat Detector with Short Circuit Isolator (MAB800 bases) - (Menvier) *Notes: 1. Meets the requirements of EN 54-5 and EN 54-7 in the following modes: Mode 2 Photoelectric/Heat combined together with an alarm output from temperature alone (Category A2S)* *Mode 3 Heat Detector alone (Category A2S)*	378w/01
CAPT340	Intelligent Analogue Addressable Category A2S Multisensor Opto/Heat Detector with Short Circuit Isolator (CAB300 base) (Cooper) *Notes: 1. Meets the requirements of EN 54-5 and EN 54-7 in the following modes: Mode 2 Photoelectric/Heat combined together with an alarm output from temperature alone (Category A2S)* *Mode 3 Heat Detector alone (Category A2S)*	378w/02
COPOH450	Intelligent Analogue Addressable Category A2S Multisensor Opto/Heat Detector with Short Circuit Isolator (COPA800 base)	378w/02

Certificated Products		LPCB Ref. No.
	Notes: 1. Meets the requirements of EN 54-5 and EN 54-7 in the following modes: Mode 2 Photoelectric/Heat combined together with an alarm output from temperature alone (Category A2S) Mode 3 Heat Detector alone (Category A2S)	
FXN722	Intelligent Analogue Addressable Category A2S Multisensor Opto/Heat Detector with Short Circuit Isolator (FXN720 bases) - (JSB) *Notes: 1. Meets the requirements of EN 54-5 and EN 54-7 in the following modes: Mode 2 Photoelectric/Heat combined together with an alarm output from temperature alone (Category A2S) Mode 3 Heat Detector alone (Category A2S)*	378w/02
MAOH850	Intelligent Analogue Addressable Category A2S Multisensor Opto/Heat Detector with Short Circuit Isolator (MAB800 bases) - (Menvier) *Notes: 1. Meets the requirements of EN 54-5 and EN 54-7 in the following modes: Mode 2 Photoelectric/Heat combined together with an alarm output from temperature alone (Category A2S) Mode 3 Heat Detector alone (Category A2S)*	378w/02

Bases

MAB800 (Menvier)	Single contact standard analogue addressable mounting base
FXN720 (JSB)	Single contact standard analogue addressable mounting base
CAB300 (Cooper)	Single contact standard analogue addressable mounting base
COPA800	Single contact standard analogue addressable mounting base

A copy of the certificate, confirming the full scope of approval including notes relating to the superscript references in the above table, may be viewed online by clicking on the product name in the associated entry on www.RedBookLive.com

Certificate No: 378x to EN 54-5:2017 + A1:2018, EN 54-17:2005

Certificated Products		LPCB Ref. No.
CAH330	Intelligent Analogue Addressable Category P Heat Detector with Short Circuit Isolator (CAB300 Base) (Cooper) *Notes: 1. Meets the requirements of EN 54-5 at Categories A1R, BS and CS*	378x/01
COPH430	Intelligent Analogue Addressable Category P Heat Detector with Short Circuit Isolator (COPA800 Base) *Notes: 1. Meets the requirements of EN 54-5 at Categories A1R, BS and CS*	378x/01
FXN725	Intelligent Analogue Addressable Category P Heat Detector with Short Circuit Isolator (FXN720 Bases) - (JSB) *Notes: 1. Meets the requirements of EN 54-5 at Categories A1R, BS and CS*	378x/01
MAH830	Intelligent Analogue Addressable Category P Heat Detector with Short Circuit Isolator (MAB800 Bases) - (Menvier) *Notes: 1. Meets the requirements of EN 54-5 at Categories A1R, BS and CS*	378x/01
CAH330	Intelligent Analogue Addressable Category P Heat Detector with Short Circuit Isolator (CAB300 Base) (Cooper) *Notes: 1. Meets the requirements of EN 54-5 at Categories A1R, BS and CS*	378x/02
COPH430	Intelligent Analogue Addressable Category P Heat Detector with Short Circuit Isolator (COPA800 Base) *Notes: 1. Meets the requirements of EN 54-5 at Categories A1R, BS and CS*	378x/02
FXN725	Intelligent Analogue Addressable Category P Heat Detector with Short Circuit Isolator (FXN720 Bases) - (JSB) *Notes: 1. Meets the requirements of EN 54-5 at Categories A1R, BS and CS*	378x/02
MAH830	Intelligent Analogue Addressable Category P Heat Detector with Short Circuit Isolator (MAB800 Bases) - (Menvier) *Notes: 1. Meets the requirements of EN 54-5 at Categories A1R, BS and CS*	378x/02

Bases

MAB800 (Menvier)	Single contact standard analogue addressable mounting base
FXN720 (JSB)	Single contact standard analogue addressable mounting base
CAB300 (Cooper)	Single contact standard analogue addressable mounting base

COPA800	Single contact standard analogue addressable mounting base

A copy of the certificate, confirming the full scope of approval including notes relating to the superscript references in the above table, may be viewed online by clicking on the product name in the associated entry on www.RedBookLive.com

Certificate No: 378y to EN 54-5:2017 + A1: 2018

Certificated Products		**LPCB Ref. No.**
EFXN525	Conventional Category A2R Heat Detector (EFDB800 and EFXN520 Bases)	378y/01
EFXN524	Conventional Category BS Heat Detector (EFDB800 and EFXN520 Bases)	378y/02
EFXN526	Conventional Category CS Heat Detector (EFDB800 and EFXN520 Bases)	378y/03

Bases

EFXN520 - Single contact conventional mounting base (Schottky Diode)

EFDB800 -Single contact standard conventional mounting base (Zener Diode)

A copy of the certificate, confirming the full scope of approval including notes relating to the superscript references in the above table, may be viewed online by clicking on the product name in the associated entry on www.RedBookLive.com

Certificate No: 378z to EN 54-7:2018

Certificated Products		**LPCB Ref. No.**
EFXN533	Conventional Photoelectric Smoke Detector (EFDB800 and EFXN520 Bases)	378z/01

Bases

EFDB800 -Single contact standard conventional mounting base (Zener diode)
EFXN520 -Single contact conventional mounting base (Schottky diode)

A copy of the certificate, confirming the full scope of approval including notes relating to the superscript references in the above table, may be viewed online by clicking on the product name in the associated entry on www.RedBookLive.com

---

Eaton Electrical Products Ltd

Security House, Vantage Point Business Village, Mitcheldean, Gloucestershire GL17 0SX, United Kingdom
Tel: +441594545543

Certificate No: 685g-(cl-4) to EN 54-5:2017 + A1: 2018 EN 54-7:2018, CEA 4021: 2003

Certificated Products		**LPCB Ref. No.**
M12	Conventional Multi-Sensor Smoke / Heat Detector (M12 Base) *Notes:* *1. Meets the requirements of EN 54-7 at the following settings:* *S1 - High sensitivity (optical smoke only) 0.10dB/m* *S2 - Low sensitivity dual multi-sensor (smoke enhanced by heat and Category A2S heat detector) 0.15dB/m* *2. Meets the requirements of EN 54-5 at the following settings:* *M1 - Heat detector Category A1R* *M2 - Heat detector Category BS*	685g/03

Bases
M12
A copy of the certificate, confirming the full scope of approval including notes relating to the superscript references in the above table, may be viewed online by clicking on the product name in the associated entry on www.RedBookLive.com

EDS Elektronik Destek San. Ve Tic. Ltd. Şti.

Meclis Mah. Teraziler Cad., Hayran Sok. No 4, Istanbul, 34785 Sancaktepe, Turkey
Tel: +44 (216) 5284500 • Fax: +44 (216) 3141780

Certificate No: 1086a to EN 54-7: 2000 + A1: 2002 + A2: 2006

Smoke Detectors

Certificated Products		LPCB Ref. No.
EC-P2L	Conventional optical smoke detector 5 pin (EC-DB base)	1086a/01
EC-P2L-3	Conventional optical smoke detector 3 pin (EC-DB3 base)	1086a/02

Base:
EC-DB 5 pin base
EC-DB3 3 pin base

A copy of the certificate, confirming the full scope of approval including notes relating to the superscript references in the above table, may be viewed online by clicking on the product name in the associated entry on www.RedBookLive.com

EL.MO. Spa

Via Pontarola 70, Campodarsego (PD) 35011, Italy
Tel: +390499203333
E-mail: international@elmospa.com • Website: www.elmospa.com

Certificate No: 1163a-(cl-2) to EN 54-7:2000 + A1:2002 + A2:2006

Smoke Detectors

Certificated Products		LPCB Ref. No.
SNI01C	2-Wire Conventional Optical Smoke Detector with Remote LED Output (BSC Base) Note: 1. Meets the requirements of EN 54-7 at the default smoke sensitivity	1163a/03

Bases
BSC 2-Wire with Remote LED Base
A copy of the certificate, confirming the full scope of approval including notes relating to the superscript references in the above table, may be viewed online by clicking on the product name in the associated entry on www.RedBookLive.com

Certificate No: 1163c-(cl-2) to EN 54-5:2000 + A1:2002

Heat Detectors

Certificated Products		LPCB Ref. No.
SNI02C	2-Wire Conventional Heat Detector with Remote LED Output (BSC Base) Note: 1. Meets the requirements of EN 54-5 for the following setting: - Class A1R	1163c/07

Bases
BSC 2-Wire with Remote LED Base
A copy of the certificate, confirming the full scope of approval including notes relating to the superscript references in the above table, may be viewed online by clicking on the product name in the associated entry on www.RedBookLive.com

Certificate No: 1163p-(cl-1) to EN 54-5:2000 + A1:2002 & EN 54-7:2000 + A1:2002 + A2:2006

Multi-Sensor/Multi-Criteria Detectors

Certificated Products		LPCB Ref. No.
SNI03C	2-Wire Conventional Heat and Optical Smoke Detector with Remote LED Output (BSC Base) Notes: 1. Meets the requirements of EN 54-5 for the following setting: - Class A2 2. Meets the requirements of EN 54-7 at the default smoke sensitivity	1163p/01

Base
BSC 2-Wire with Remote LED Base
A copy of the certificate, confirming the full scope of approval including notes relating to the superscript references in the above table, may be viewed online by clicking on the product name in the associated entry on www.RedBookLive.com

---

Elite Security Products (ESP)

Unit 7, Target Park, Shawbank Road, Redditch, Birmingham B98 8YN, United Kingdom
Tel: +44 (0)1527 515150
E-mail: info@espuk.com • Website: https://www.espuk.com/

Certificate No: 331g-(cl-1) to EN 54-3:2001+ A1: 2002 + A2: 2006 EN 54-5:2000+ A1: 2002 EN 54-7: 2000 + A1: 2002 + A2: 2006 CEA 4021: 2003

Certificated Products		LPCB Ref. No.
MAGDUOSHDSS	MAGDUO Flexipoint Conventional Optical Smoke and Heat Multisensor Detector with Type A Sounder & Strobe (45-0048-202-01 Base) *Notes:* *1. Meets the requirements of EN 54-5:2000 at the following settings:* *HM1 Class A1 standard temperature rate of rise enhanced* *HM2 Class A1 standard temperature, fixed temperature* *HM3 Class C standard temperature, fixed temperature* *2. Meets the requirements of EN 54-7:2000 at the following settings:* *SM1 Standard optical sensitivity with high thermal enhancement* *SM2 Standard optical sensitivity with normal thermal enhancement* *3. Meets the requirements of EN 54-3: 2001 at the following tones -* *SP1 Continuous 970Hz* *SP2 Alternating tone at 800/970Hz* *SP3 Sweep Up 800-970Hz* *4. The strobe function is not approved to EN 54-23:2010*	331g/03

Bases:

45-0048-202-01 Standard Base

A copy of the certificate, confirming the full scope of approval including notes relating to the superscript references in the above table, may be viewed online by clicking on the product name in the associated entry on www.RedBookLive.com

Certificate No: 331y-(cl-1) to EN 54-5:2000 + A1:2002
EN 54-7:2000 + A1:2002 + A2:2006
CEA 4021: 2003

Certificated Products		LPCB Ref. No.
MAGDUOSHD	MAGDUO Flexipoint Conventional Optical Smoke and Heat Multisensor Detector (45-0048-202-01 Base) Notes: 1. Meets the requirements of EN 54-5:2000 at the following settings: HM1 Class A1 standard temperature rate of rise enhanced HM2 Class A1 standard temperature, fixed temperature HM3 Class C standard temperature, fixed temperature 2. Meets the requirements of EN 54-7:2000 at the following settings: SM1 Standard optical sensitivity with high thermal enhancement SM2 Standard optical sensitivity with normal thermal enhancement	331y/01

Bases:

45-0048-202-01 Standard Base

A copy of the certificate, confirming the full scope of approval including notes relating to the superscript references in the above table, may be viewed online by clicking on the product name in the associated entry on www.RedBookLive.com

Certificate No: 331z-(cl-1) to EN 54-3:2001 + A1:2002 + A2:2006
EN 54-5:2000 + A1:2002
EN 54-7:2000 + A1:2002 + A2:2006
CEA 4021: 2003

Certificated Products		LPCB Ref. No.
MAGDUOSHDS	MAGDUO Flexipoint Conventional Optical Smoke and Heat Multisensor Detector with Type A Sounder (45-0048-202-01 Base) Notes: 1. Meets the requirements of EN 54-5:2000 at the following settings: HM1 Class A1 standard temperature rate of rise enhanced HM2 Class A1 standard temperature, fixed temperature HM3 Class C standard temperature, fixed temperature 2. Meets the requirements of EN 54-7:2000 at the following settings: SM1 Standard optical sensitivity with high thermal enhancement SM2 Standard optical sensitivity with normal thermal enhancement 3. Meets the requirements of EN 54-3 :2001 at the following tones - SP1 Continuous 970Hz SP2 Alternating tone at 800/970Hz SP3 Sweep Up 800-970Hz	331z/01

Bases:

45-0048-202-01 Standard Base

A copy of the certificate, confirming the full scope of approval including notes relating to the superscript references in the above table, may be viewed online by clicking on the product name in the associated entry on www.RedBookLive.com

Emirates Fire Fighting Equipment Factory L.L.C. (FIREX)

P.O.Box 22436, Industrial Area 13, Sharjah, United Arab Emirates
Tel: +971 6 5340300 • Fax: +971 6 5340090
E-mail: firex@emirates.net.ae • Website: www.firexuae.com

Certificate No: 506a to EN 54-7:2018

Point Smoke Detectors

Certificated Products		LPCB Ref. No.
FX-0311-2	(2-Wire) Conventional Photoelectric Smoke Detector (AHMB-031 Base)	506a/02
FX-0311-3	(3-Wire) Conventional Photoelectric Smoke Detector (AHMB-031 Base)	506a/03
FX-0311-4	(4-Wire) Conventional Photoelectric Smoke Detector (AHMB-031 Base)	506a/04

Bases:
AHMB-031 Mounting Base

Eurofyre Limited

Unit C1 Knowle Village Business Park, Mayles Lane, Wickham, Fareham PO17 5DY, United Kingdom
Tel: 01329 830 462
E-mail: jon@eurofyre.com

Smoke Detectors

Multi-Sensor/Multi-Criteria Detectors

Bases:

12-030	Shallow Base
12-031	Deep Base

Heat Detectors

Eurotech Fire Systems Limited

19/20 Stratfield Park, Elettra Avenue, Waterlooville, Hampshire PO7 7XN, United Kingdom
Tel: +44 (0)203 141 0999 • Fax: +44 (0)239 225 2554
E-mail: MICHELLE.AGIUS@eurotechfire.com • Website: www.eurotechfire.com

Certificate No: 1213w to EN 54-7:2018 EN 54-25:2008

Smoke Detectors

Certificated Products		LPCB Ref. No.
EUW-PA-02	Intelligent Wireless Addressable Optical Smoke Detector (EUW-WAB Base) *Notes:* *1. Meets the requirements of EN 54-7 at the following sensitivity settings:* *Level 1 - High* *Level 2 - Normal* *Level 3 - Low* *2. The device must be used with the following battery type only:* *CR123A (3 Vdc) - Primary and Secondary Battery*	1213w/02

Bases

STB-4SE-EV	Standard Deep Mounting base
STB-4SE-24VR	Relay Mounding base
EUW-WAB	Wireless Adaptor Base
100-3500V	Conventional Standard Base
100-3511V	Conventional Resistor Base
100-3510V	Conventional Diode Base
100-3000V	Standard Mounting Base

A copy of the certificate, confirming the full scope of approval including notes relating to the superscript references in the above table, may be viewed online by clicking on the product name in the associated entry on www.RedBookLive.com

Certificate No: 1213x to EN54-5:2017 + A1:2018, EN 54-25:2008

Certificated Products		LPCB Ref. No.
EUW-TA-02	Intelligent Wireless Addressable Category P Heat Detector (EUW-WAB Base) *Notes:* *1. Meets the requirements of EN 54-5 for Category A1R and BS* *2. The device must be used with the following battery type only:* *CR123A (3 Vdc) - Primary and Secondary Battery*	1213x/02

Bases:

STB-4SE-EV	Standard Deep Mounting base
EUW-WAB	Wireless Adaptor Base
100-3000V	Low Profile Adaptor Base

A copy of the certificate, confirming the full scope of approval including notes relating to the superscript references in the above table, may be viewed online by clicking on the product name in the associated entry on www.RedBookLive.com

Certificate No: 1213c to EN 54-7:2018 & CEA 4021: 2003

Multi-Sensor/Multi-Criteria Detectors

Certificated Products		LPCB Ref. No.
200-505	Odyssey Analogue Addressable Multisensor Detector (200-111 mounting base)	1213c/01

Bases:

200-111 Odyssey mounting base
100-3000V Low profile adaptor base
EUW-WAB Wireless Adaptor Base

A copy of the certificate, confirming the full scope of approval including notes relating to the superscript references in the above table, may be viewed online by clicking on the product name in the associated entry on www.RedBookLive.com

Certificate No: 1213p to EN 54-5:2017+A1:2018, EN 54-7:2018, EN 54-17:2005, CEA 4021:2003

Certificated Products		**LPCB Ref. No.**
100-2401V	EURV-PHI Intelligent Multi-Criteria Detector with Short Circuit Isolator (100-3000V Base) Notes: 1. Meets the requirements of EN 54-5 (Category A1) & EN 54-7 at the following settings: Multi Criteria Level 1 (most sensitive) - Thermally enhanced smoke detection with Category A1 heat response Multi Criteria Level 2 - Thermally enhanced smoke detection with Category A1 heat response Multi Criteria Level 3 - Thermally enhanced smoke detection with Category A1 heat response Multi Criteria Level 4 (least sensitive) - Thermally enhanced smoke detection with Category A1 heat response 2. Meets the requirements of EN 54-5 (Category A1R) at the following settings: Category A1R heat only response 3. Meets the requirements of EN 54-7 at the following sensitivity settings: Optical only level 1 - High Optical only level 2 Optical only level 3 Optical only level 4 - Low	1213p/01

Bases:
100-3000V Low Profile Adaptor Base

A copy of the certificate, confirming the full scope of approval including notes relating to the superscript references in the above table, may be viewed online by clicking on the product name in the associated entry on www.RedBookLive.com

Certificate No: 1213s to EN 54-5:2017+A1:2018, EN 54-7:2018, CEA 4021:2003

Certificated Products		**LPCB Ref. No.**
100-2400V	EURV-PH Intelligent Multi-Criteria Detector (100-3000V Base) Notes: 1. Meets the requirements of EN 54-5 (Category A1) & EN 54-7 at the following settings: Multi criteria level 1 (most sensitive) - Thermally enhanced smoke detection with Category A1 heat response Multi criteria level 2 - Thermally enhanced smoke detection with Category A1 heat response Multi criteria level 3 - Thermally enhanced smoke detection with Category A1 heat response Multi criteria level 4 (least sensitive) - Thermally enhanced smoke detection with Category A1 heat response 2. Meets the requirements of EN 54-5 (Category A1R) at the following settings: Category A1R heat only response 3. Meets the requirements of EN 54-7 at the following settings: Optical only level 1 High sensitivity Optical only level 2 Optical only level 3 Optical only level 4 Low sensitivity	1213s/01

Bases:
100-3000V Standard Mounting Base

A copy of the certificate, confirming the full scope of approval including notes relating to the superscript references in the above table, may be viewed online by clicking on the product name in the associated entry on www.RedBookLive.com

Certificate No: 1213y to EN 54-5:2017+A1:2018, EN 54-7:2018, EN 54-25:2008, CEA 4021:2003

Certificated Products		LPCB Ref. No.
EUW-MA-02	Intelligent Wireless Addressable Multi-Criteria Detector (EUW-WAB Base) Notes: 1. Meets the requirements of EN 54-5 for Category A1R 2. Meets the requirements of EN 54-7 at the following sensitivity settings: Level 1 - High Level 2 - Normal Level 3 - Low 3. The device must be used with the following battery type only: - CR123A (3 Vdc) - Primary and Secondary Battery	1213y/02

Bases

EUW-WAB Wireless adaptor base

A copy of the certificate, confirming the full scope of approval including notes relating to the superscript references in the above table, may be viewed online by clicking on the product name in the associated entry on www.RedBookLive.com

Certificate No: 1213af to EN 54-5:2017+A1:2018, EN 54-7:2018, CEA 4021:2003

Certificated Products		LPCB Ref. No.
200-507	Odyssey Plus Intelligent Multi-Sensor Detector (200-111 base) Notes: 1. Certified at the following settings: Mode 1 – High sensitivity smoke detector with standard heat enhancement Mode 2 – Smoke detection only Mode 3 – Medium sensitivity smoke detector with standard heat enhancement Mode 4 – Low sensitivity smoke detector with high heat enhancement Mode 5 – Category A1 heat detector Also approved in conventional alarm modes 1, 2, 3, 4 and 5 Approved with Apollo Discovery, XP95, and S90 digital communication protocols that have been configured for the Discovery multisensor detector in accordance with manufacturer's instructions.	1213af/01

Bases

200-111 Odyssey Mounting Base

A copy of the certificate, confirming the full scope of approval including notes relating to the superscript references in the above table, may be viewed online by clicking on the product name in the associated entry on www.RedBookLive.com

Certificate No: 1213d to EN 54-5:2017+A1:2018

Certificated Products		LPCB Ref. No.
200-400	Odyssey Conventional Category A1R Heat Detector (200-300 Base) Note: Meets the requirements of EN 54: Part 5 - Category A1R	1213d/01
200-401	Odyssey Conventional Category BR Heat Detector (200-300 Base) Note: Meets the requirements of EN 54: Part 5 - Category BR	1213d/02
200-402	Odyssey Conventional Category CR Heat Detector (200-300 Base) Note: 1. Meets the requirements of EN 54: Part 5 - Category CR	1213d/03
200-403	Odyssey Conventional Category CR Heat Detector (200-300 Base) Note: 1. Meets the requirements of EN 54: Part 5 - Category CR	1213d/04
200-501	Odyssey Analogue Addressable Category A2S Heat Detector (200-111 Base)	1213d/05
200-502	Odyssey Analogue Addressable Category CS Heat Detector (200-111 Base)	1213d/06
100-2200V	EURV-H-A1R Intelligent Rate of Rise Heat Detector (100-3000V Base) Note: 1. Meets the requirements of EN 54-5 for Category A1R, Category B and Category BS	1213d/07

Certificated Products		LPCB Ref. No.
100-2505V	EURV-H Conventional Category P Heat Detector (100-3500V, 100-3511V and 100-3510V Bases) Note: 1. Meets the requirements of EN 54-5 for Category A1R and Category B	1213d/08

Bases

200-300 Odyssey Mounting Base
200-111 Odyssey Mounting Base
100-3500V Conventional Standard Base
100-3511V Conventional Resistor Base
100-3510V Conventional Diode Base
100-3000V Standard Mounting Base

A copy of the certificate, confirming the full scope of approval including notes relating to the superscript references in the above table, may be viewed online by clicking on the product name in the associated entry on www.RedBookLive.com

Certificate No: 1213r to EN 54-5:2017+A1:2018, EN 54-17:2005

Certificated Products		LPCB Ref. No.
100-2201V	EURV-H-A1RI Intelligent Category P Heat Detector with Short Circuit Isolator (100-3000V Base) Note: 1. Meets the requirements of EN 54-5 for Category A1R, Category B and Category BS	1213r/01

Bases:
100-3000V Low Profile Adaptor Base

A copy of the certificate, confirming the full scope of approval including notes relating to the superscript references in the above table, may be viewed online by clicking on the product name in the associated entry on www.RedBookLive.com

Certificate No: 1213e to EN 54-7:2018

Certificated Products		LPCB Ref. No.
100-2100V	EURV-P Intelligent Optical Smoke Detector (100-3000V Base) Note: 1. Meets the requirements of EN 54-7 at the following sensitivity settings: Optical only level 1 - High Optical only level 2 Optical only level 3 Optical only level 4 - Low	1213e/03
100-2210V	EURVC-P Conventional Optical Smoke Detector (100-3500V, 100-3511V and 100-3510V Bases)	1213e/04

Bases

100-3500V Conventional Standard Base
100-3511V Conventional Resistor Base
100-3510V Conventional Diode base
100-3000V Standard Mounting Base

A copy of the certificate, confirming the full scope of approval including notes relating to the superscript references in the above table, may be viewed online by clicking on the product name in the associated entry on www.RedBookLive.com

Certificate No: 1213n to EN 54-7:2018, EN 54-17:2005

Certificated Products		LPCB Ref. No.
100-2101V	EURV-PI Intelligent Optical Smoke Detector with Short Circuit Isolator (100-3000V Base) Note: 1. Meets the requirements of EN 54-7 at the following sensitivity settings: Optical only level 1 - High Optical only level 2Optical only level 3 Optical only level 4 - Low	1213n/01

Bases:
100-3000V Low Profile Adaptor Base

A copy of the certificate, confirming the full scope of approval including notes relating to the superscript references in the above table, may be viewed online by clicking on the product name in the associated entry on www.RedBookLive.com

Certificate No: 1213ae to EN 54-7:2018

Certificated Products		LPCB Ref. No.
200-404	Odyssey Conventional Optical Smoke Detector (200-300 and 200-301 Base)	1213ae/01
200-503	Odyssey Analogue Addressable Optical Smoke Detector (200-111 Base)	1213ae/02

Bases

200-300	Odyssey Mounting Base
200-301	Odyssey Diode Mounting Base
200-111	Odyssey Mounting Base

A copy of the certificate, confirming the full scope of approval including notes relating to the superscript references in the above table, may be viewed online by clicking on the product name in the associated entry on www.RedBookLive.com

Certificate No: 1283a-(cl-2) to EN 54-12:2002

Certificated Products		LPCB Ref. No.
EFPB01	Conventional Optical Beam Smoke Detector (Double Pass) Notes: 1. Meets the requirements of EN 54-12 at the following sensitivity settings only: • 18% obscuration high sensitivity at between 5-20m • 30% obscuration medium sensitivity at between 20-100m 2. Suitable for use with Ref-50 prismatic reflector over distances from 5 to 50m 3. Suitable for use with Ref-100 set of reflectors over distances from 50 to 100m	1283a/01

Ancillaries

Ref-50	Single prism reflector
Ref-100	Set of 4 x prism reflectors

A copy of the certificate, confirming the full scope of approval including notes relating to the superscript references in the above table, may be viewed online by clicking on the product name in the associated entry on www.RedBookLive.com

---

Everday Technology Co. Limited

No,.95., Sec. 2., Ligong 1 St. Road., Letzer Industrial Park, Yilan County 26841, Taiwan ROC
Tel: +886 3 990 6099 • Fax: +862 3 990 6029
E-mail: alex.hsieh@everday.com • Website: www.everday.com

Certificate No: 512a to EN 54-7: 2000 + A1: 2002 + A2: 2006

Smoke Detectors

Certificated Products		LPCB Ref. No.
EA318-2	Conventional 2 wire photoelectric smoke detector *(P/N852001 base)*	512a/01
EA318-2(LED)	Conventional 2 wire photoelectric smoke detector with remote LED output *(P/N854001 base)*	512a/02
EA318-4-12	Conventional 4 wire photoelectric smoke detector *(P/N854001 base)*	512a/03
EA318-4-24	Conventional 4 wire photoelectric smoke detector *(P/N854001 base)*	512a/04

Certificated Products		LPCB Ref. No.
EA318-2V	Conventional 2 wire photoelectric smoke detector (P/N852001 base)	512a/05
EA318-2-LED-V	Conventional 2 wire photoelectric smoke detector with remote LED output (P/N852001 base)	512a/06
EA318-4V-12	Conventional 4 wire photoelectric smoke detector (P/N854001 base)	512a/07
EA318-4V-24	Conventional 4 wire photoelectric smoke detector	512a/08

Bases:
P/N854001 4-wire detector base
P/N852001 2-wire detector base

A copy of the certificate, confirming the full scope of approval including notes relating to the superscript references in the above table, may be viewed online by clicking on the product name in the associated entry on www.RedBookLive.com

Certificate No: 512b to EN 54-5: 2000 + A1: 2002, EN 54-7: 2000 + A1: 2002 + A2: 2006, CEA4021: 2003

Multi-criteria Detectors

Certificated Products		LPCB Ref. No.
EA318-2H	Conventional 2 wire photoelectric smoke and heat detector *(P/N852001 base)*	512b/01
EA318-2H-LED	Conventional 2 wire photoelectric smoke and heat detector with remote LED output *(P/N854001 base)*	512b/02
EA318-4H-12	Conventional 4 wire photoelectric smoke and heat detector *(P/N854001 base)*	512b/03
EA318-4H-24	Conventional 4 wire photoelectric smoke and heat detector *(P/N854001 base)*	512b/04
EA318-2HV	Conventional 2 wire photoelectric smoke and heat detector (P/N852001 base)	512b/05
EA318-2H-LED-V	Conventional 2 wire photoelectric smoke and heat detector with remote LED output (P/N8524001 base)	512b/06
EA318-4HV-12	Conventional 4 wire photoelectric smoke and heat detector (P/N854001 base)	512b/07
EA318-4HV-24	Conventional 4 wire photoelectric smoke and heat detector (P/N854001 base)	512b/08

Bases:
P/N854001 4-wire detector base
P/N852001 2-wire detector base

A copy of the certificate, confirming the full scope of approval including notes relating to the superscript references in the above table, may be viewed online by clicking on the product name in the associated entry on www.RedBookLive.com

Certificate No: 512d to EN 54-5: 2000 + A1: 2002

Point Heat Detectors

Certificated Products		LPCB Ref. No.
EA323-2	Conventional 2 wire 24VDC class A2S fixed temperature and rate-of-rise heat detector (P/N852001 base)	512d/01
EA323-2	Conventional 2 wire 24VDC class A2R fixed temperature and rate-of-rise heat detector (P/N852001 base)	512d/02
EA323-2L	Conventional 2 wire 24VDC class A2S fixed temperature and rate-of-rise heat detector with LED output (P/N854001 base)	512d/03
EA323-2L	Conventional 2 wire 24VDC class A2R fixed temperature and rate-of-rise heat detector with LED output (P/N854001 base)	512d/04
EA323-4	Conventional 4 wire 12VDC class A2S fixed temperature and rate-of-rise heat detector (P/N854001 base)	512d/05
EA323-4	Conventional 4 wire 12VDC class A2R fixed temperature and rate-of-rise heat detector (P/N854001 base)	512d/06
EA323-4	Conventional 4 wire 24VDC class A2S fixed temperature and rate-of-rise heat detector (P/N854001 base)	512d/07
EA323-4	Conventional 4 wire 24VDC class A2R fixed temperature and rate-of-rise heat detector (P/N854001 base)	512d/08

Bases:
P/N852001 2-Wire detector base
P/N854001 4-Wire detector base
EB7501 base

A copy of the certificate, confirming the full scope of approval including notes relating to the superscript references in the above table, may be viewed online by clicking on the product name in the associated entry on www.RedBookLive.com

Certificate No: 512k to EN 54-12: 2015

Beam Detectors

Certificated Products		LPCB Ref. No.
TR6100	Conventional Reflective Beam Detector Notes: 1. Meets the requirements of EN 54-12: 2015 at the following sensitivity settings: - Level 1: 2.6 dB High sensitivity - Level 2: 3.8 dB Medium sensitivity - Level 3: 5.8 dB Low sensitivity 2. Suitable for use at the following separation ranges: - Span 1: 8 to 20 meters Short Path (1 x mirror reflector required) - Span 2: 20 to 40 meters Short Path (1 x mirror reflector required) - Span 3: 40 to 70 meters Normal Path (4 x mirror reflector required) - Span 4: 70 to 100 meters Long Path (4 x mirror reflector required)	512k/01

Accessories
Mounting Bracket
BT7130-R 1 x Mirror Reflector
BT7130-R 4 x Mirror Reflector

A copy of the certificate, confirming the full scope of approval including notes relating to the superscript references in the above table, may be viewed online by clicking on the product name in the associated entry on www.RedBookLive.com

---

FARE

ZA de la Guinette, 782 rue Duhamel du Monceau, Dadonville BP 10809, Pithiviers 45308, France
Tel: 02.38.34.54.95
E-mail: p.lecompagnon@fare-sa.com

Certificate No: 1549b to EN 54-7:2000 + A1:2002 + A2:2006

Certificated Products		LPCB Ref. No.
OC-OIEx	Conventional ATEx Optical Smoke Detector	1549b/01

Base:
S05Ex Base
A copy of the certificate, confirming the full scope of approval including notes relating to the superscript references in the above table, may be viewed online by clicking on the product name in the associated entry on www.RedBookLive.com

---

FFE Ltd

9 Hunting Gate, Wilbury Way, Hitchin, Hertfordshire SG4 0TJ, United Kingdom
Tel: +44 (0) 1462 444740 • Fax: +44 (0) 1462 444789
E-mail: sales@ffeuk.com • Website: www.ffeuk.com

Certificate No: 1204a to EN 54-10: 2002 + A1: 2005

Commercial detectors -1 - 1 - 4

Certificated Products		LPCB Ref. No.
16511	Talentum Conventional IR2 (Exd) Flameproof Flame Detector (07127 Bracket) *Note:* *1.) Meets the requirements of EN 54-10: 2002 at Class 1 only*	1204a/05
16519	Talentum Conventional IR3 (Exd) Flameproof Flame Detector (07127 Bracket) *Note:* *1.) Meets the requirements of EN 54-10: 2002 at Class 1 only*	1204a/06

Certificated Products		LPCB Ref. No.
16521	Talentum Conventional UV/IR2 (Exd) Flameproof Flame Detector (07127 Bracket) *Note:* *1.) Meets the requirements of EN 54-10: 2002 at Class 1 only*	1204a/07
16571	Talentum Conventional IR2 (IS) Intrinsically Safe Flame Detector (07127 Bracket) *Note:* *1.) Meets the requirements of EN 54-10: 2002 at Class 1 only*	1204a/08
16579	Talentum Conventional IR3 (IS) Intrinsically Safe Flame Detector (07127 Bracket) *Note:* *1.) Meets the requirements of EN 54-10: 2002 at Class 1 only*	1204a/09
16581	Talentum Conventional IR2 Flame Detector (07127 Bracket) *Note:* *1.) Meets the requirements of EN 54-10: 2002 at Class 1 only*	1204a/10
16589	Talentum Conventional IR3 Flame Detector (07127 Bracket) *Note:* *1.) Meets the requirements of EN 54-10: 2002 at Class 1 only*	1204a/11
16591	Talentum Conventional UV/IR2 Flame Detector (07127 Bracket) *Note:* *1.) Meets the requirements of EN 54-10: 2002 at Class 1 only*	1204a/12

07127	Adjustable Mounting Bracket
45681-200	Mounting base - Produced by Apollo Fire Detectors
45681-201	Mounting base with diode - Produced by Apollo Fire Detectors
45681-209	Deep base - Produced by Apollo Fire Detectors
45681-210	Mounting base - Produced by Apollo Fire Detectors

A copy of the certificate, confirming the full scope of approval including notes relating to the superscript references in the above table, may be viewed online by clicking on the product name in the associated entry on www.RedBookLive.com

Fike Safety Technology Ltd

Unit 31, Springvale Industrial Estate, Cwmbran, Gwent NP44 5BD, United Kingdom
Tel: +44 (0)1633 865558 • Fax: +44 (0)1633 866656
E-mail: fstinfo@fike.com • Website: www.fikesafetytechnology.co.uk

Certificate No: 331f to EN 54-3: 2014 + A1: 2019, EN 54-5: 2017 + A1: 2018, EN 54-7: 2018 EN 54-17: 2005, EN 54-18: 2005 and CEA 4021:July 2003 (en)

Multi-Sensor Detectors

Certificated Products		LPCB Ref. No.
205-0001	Sita analogue addressable optical smoke and heat multisensor detector with short circuit isolator and sounder. *Notes:* *1. Meets the requirements of EN 54-5 at the following settings:* *HM1 Category A1 standard temperature rate of rise enhanced* *HM2 Category A1 standard temperature, fixed temperature.* *2. Meets the requirements of EN 54-7 at the following settings:* *SM1 Standard optical sensitivity with high thermal enhancement* *SM2 Standard optical sensitivity with normal thermal enhancement.* *3. Approved at the following tones -* *SP1 Continuous 970Hz* *SP2 Pulsed 970Hz 1s on 1s off* *SP3 Dual Tone 970Hz 0.25s , 800Hz 0.25s* *SP4* Sweep Up 800-970Hz over 1s* *SP5 Slow Whoop 500-1200Hz over 3s, 0.5s off* *SP6* Sweep Down 1200-500Hz over 1s* *SP7 Dual French 550Hz 0.1s, 440Hz 400ms* ** Not available if the I/O facility is used.*	331f/01
205-0012	Sita analogue addressable optical smoke and heat multisensor detector with short circuit isolator and sounder/strobe. *Notes:* *1. Meets the requirements of EN 54-5 at the following settings:* *HM1 Cateory A1 standard temperature rate of rise enhanced* *HM2 Category A1 standard temperature, fixed temperature.* *2. Meets the requirements of EN 54-7 at the following settings:*	331f/02

Certificated Products		LPCB Ref. No.
	SM1 Standard optical sensitivity with high thermal enhancement *SM2 Standard optical sensitivity with normal thermal enhancement.*	
	3. Approved at the following tones - *SP1 Continuous 970Hz* *SP2 Pulsed 970Hz 1s on 1s off* *SP3 Dual Tone 970Hz 0.25s , 800Hz 0.25s* *SP4* Sweep Up 800-970Hz over 1s* *SP5 Slow Whoop 500-1200Hz over 3s, 0.5s off* *SP6* Sweep Down 1200-500Hz over 1s* *SP7 Dual French 550Hz 0.1s, 440Hz 400ms* ** Not available if the I/O facility is used.*	
	4. The strobe function is not approved.	

Bases
45-0048-202 ASD Base
45-0048-202-01 Standard Base
25-0065-202 Base extension
45-0306-202 Twinflex Multipoint Base
200-0014 Shallow Base

A copy of the certificate, confirming the full scope of approval including notes relating to the superscript references in the above table, may be viewed online by clicking on the product name in the associated entry on www.RedBookLive.com

Certificate No: 331g to EN 54-3:2001 + A1:2002 + A2:2006
EN 54-5:2000 + A1:2002
EN 54-7:2000 + A1:2002 + A2:2006
CEA 4021: 2003

Certificated Products		LPCB Ref. No.
204-0001	Twinflex Multipoint ASD Conventional Optical Smoke and Heat Multisensor Detector with Type A Sounder (45-0048-202-01 Base) Notes: 1. Meets the requirements of EN 54-5:2000 at the following settings: HM1 Class A1 standard temperature rate of rise enhanced HM2 Class A1 standard temperature, fixed temperature HM3 Class C standard temperature, fixed temperature 2. Meets the requirements of EN 54-7:2000 at the following settings: SM1 Standard optical sensitivity with high thermal enhancement SM2 Standard optical sensitivity with normal thermal enhancement 3. Meets the requirements of EN 54-3: 2001 at the following tones - SP1 Continuous 970Hz SP2 Alternating tone at 800/970Hz SP3 Sweep Up 800-970Hz	331g/02
204-0012	Twinflex Multipoint ASD Conventional Optical Smoke and Heat Multisensor Detector with Type A Sounder & Strobe (45-0048-202-01 Base) Notes: 1. Meets the requirements of EN 54-5:2000 at the following settings: HM1 Class A1 standard temperature rate of rise enhanced HM2 Class A1 standard temperature, fixed temperature HM3 Class C standard temperature, fixed temperature 2. Meets the requirements of EN 54-7:2000 at the following settings: SM1 Standard optical sensitivity with high thermal enhancement SM2 Standard optical sensitivity with normal thermal enhancement 3. Meets the requirements of EN 54-3: 2001 at the following tones SP1 Continuous 970Hz SP2 Alternating tone at 800/970Hz SP3 Sweep Up 800-970Hz 4. The strobe function is not approved to EN 54-23:2010	331g/03

Bases

45-0306-202	Twinflex Multipoint Base
45-0048-202-01	Standard Base

A copy of the certificate, confirming the full scope of approval including notes relating to the superscript references in the above table, may be viewed online by clicking on the product name in the associated entry on www.RedBookLive.com

Certificate No: 331n to EN 54-5:2017 + A1:2018
EN 54-7:2018
EN 54-17:2005
EN 54-18:2005
CEA 4021: 2003

Certificated Products		LPCB Ref. No.
205-0003	Sita Analogue Addressable Optical Smoke and Heat Multisensor Detector with Short Circuit Isolator.	331n/01

Notes

1. Meets the requirements of EN 54-5 at the following settings:
   HM1 Category A1 standard temperature rate of rise enhanced
   HM2 Category A1 standard temperature, fixed temperature.

2. Meets the requirements of EN 54-7 at the following settings:
   SM1 Standard optical sensitivity with high thermal enhancement
   SM2 Standard optical sensitivity with normal thermal enhancement

Accessories
45-0048-202 ASD Base
25-0065-202 Base extension

A copy of the certificate, confirming the full scope of approval including notes relating to the superscript references in the above table, may be viewed online by clicking on the product name in the associated entry on www.RedBookLive.com

Certificate No: 331p to EN 54-5:2000 + A1:2002
EN 54-7:2000 + A1:2002 + A2:2006
CEA4021: 2003

Certificated Products		LPCB Ref. No.
204-0003	Twinflex Multipoint ASD Conventional Optical Smoke and Heat Multisensor (45-0048-202-01 Base) Notes: 1. Meets the requirements of EN 54-5:2000 at the following settings: HM1 Class A1 standard temperature rate of rise enhanced HM2 Class A1 standard temperature, fixed temperature HM3 Class C standard temperature, fixed temperature 2. Meets the requirements of EN 54-7:2000 at the following settings: SM1 Standard optical sensitivity with high thermal enhancement SM2 Standard optical sensitivity with normal thermal enhancement	331p/02

Bases:
45-0048-202-01 Standard Base

A copy of the certificate, confirming the full scope of approval including notes relating to the superscript references in the above table, may be viewed online by clicking on the product name in the associated entry on www.RedBookLive.com

---

Finder Yangin Güvenlik Elektronik Sistemler A.Ş

Kepez Mh, 5071 Sk. No: 10, Kepez, Antalya 07090, Turkey
Tel: +90 242 221 40 07 • Fax: +90 242 259 28 88
E-mail: info@finder.com.tr • Website: www.finder.com.tr

Certificate No: 1450c-(cl-1) to EN 54-7: 2018

Certificated Products		LPCB Ref. No.
FF O500	Intelligent Addressable Photo Smoke Detector (Base FF BS500)	1450c/01

FF BS500 – Standard Base

A copy of the certificate, confirming the full scope of approval including notes relating to the superscript references in the above table, may be viewed online by clicking on the product name in the associated entry on www.RedBookLive.com

Certificate No: 1450d-(cl-1) to EN 54-5: 2017 + A1: 2018

Certificated Products		LPCB Ref. No.
FF T500	Intelligent Addressable Class A2R Rate of Rise and Fixed Temperature Heat Detector (Base FF BS500) *FF BS500 Standard Base*	1450d/01

A copy of the certificate, confirming the full scope of approval including notes relating to the superscript references in the above table, may be viewed online by clicking on the product name in the associated entry on www.RedBookLive.com

---

Finder Yangin Güvenlik Elektronik Sistemler A.Ş

Kepez Mh., 5071 Sk, No: 10 07090, Kepez, Antalya, Turkey
Tel: +90 242 259 04 20 • Fax: +90 242 259 28 88
E-mail: finder@finder.com.tr • Website: www.finder.com.tr

Certificate No: 928a-(cl-1) to EN 54-5: 2017 + A1: 2018 and EN 54 -17: 2005

Heat Detectors

Certificated Products		LPCB Ref. No.
FFT200A	Analogue Addressable Category P Heat Detector with Short-Circuit Isolator (FF BS200A Base) *Note:* *1. Meets the requirements of EN 54-5 for Category A1R, Category B and Category BS*	928a/02

Bases

FF BS200	Mounting base (with link resistor)
FF UBR200	Universal adaptor base with resistor
FF BRD200	Universal adaptor base with resistor and Schottky diode
FF BS200A	Low Profile Adaptor Base

Ancillaries

FF BDP	Single prism reflector
FF BDX	Set of 4 x prism reflectors

A copy of the certificate, confirming the full scope of approval including notes relating to the superscript references in the above table, may be viewed online by clicking on the product name in the associated entry on www.RedBookLive.com

Certificate No: 928b-(cl-1) to EN 54-7: 2018 and EN 54 -17: 2005

Smoke Detectors

Certificated Products		LPCB Ref. No.
FF O200A	Addressable Photoelectric Smoke Detector with Short-Circuit Isolator (FF BS200A Base) *Note:* *1. Meets the requirements of EN 54-7 at the following sensitivity settings:* *Optical only level 1 - High* *Optical only level 2* *Optical only level 3* *Optical only level 4 - Low*	928b/02

Bases

FF BS200	Mounting base (with link resistor)
FF UBR200	Universal adaptor base with resistor
FF BRD200	Universal adaptor base with resistor and Schottky diode
WAB100	Wireless Adaptor Base
FF BS200A	Low Profile Adaptor Base

A copy of the certificate, confirming the full scope of approval including notes relating to the superscript references in the above table, may be viewed online by clicking on the product name in the associated entry on www.RedBookLive.com

Certificate No: 928c-(cl-1) to EN 54-5: 2017 + A1: 2018, EN 54-7: 2018, EN 54 -17: 2005 & CEA 4021: 2003

Multi-sensor Detectors

Certificated Products		LPCB Ref. No.
FF OT200A	Addressable Multi-Criteria Detector with Short-Circuit Isolator (FF BS200A Base) *Notes:* *1. Meets the requirements of EN 54-5 (Category A1) & EN 54-7 at the following settings:* *Multi Criteria Level 1 (most sensitive) - Thermally enhanced smoke detection with Category A1 heat response* *Multi Criteria Level 2 - Thermally enhanced smoke detection with Category A1 heat response* *Multi Criteria Level 3 - Thermally enhanced smoke detection with Category A1 heat response* *Multi Criteria Level 4 (least sensitive) - Thermally enhanced smoke detection with Category A1 heat response* *2. Meets the requirements of EN 54-5 (Class A1R) at the following settings:* *Category A1R heat only response* *3. Meets the requirements of EN 54-7 at the following settings:* *Optical only level 1 - High* *Optical only level 2* *Optical only level 3* *Optical only level 4 - Low*	928c/02

Bases

FF BS200 Mounting base (with link resistor)
FF BS200A Low Profile Adaptor Base

A copy of the certificate, confirming the full scope of approval including notes relating to the superscript references in the above table, may be viewed online by clicking on the product name in the associated entry on www.RedBookLive.com

Point Heat Detectors

Multi-Criteria Detectors

Beam Detectors

Certificate No: 928d-(cl-1) to EN 54-5:2017+A1:2018

Certificated Products		LPCB Ref. No.
FF T1000	Conventional Category P Heat Detector (FF UBR200 and FF BRD200 Bases) Note: Meets the requirements of EN 54-5 for Category A1R and Category B	928d/02
FFT200AL	Addressable Category P Heat Detector (FF BS200A Base) Note: 1. Meets the requirements of EN 54-5 for Category A1R, Category B and Category BS	928d/03

Bases

FF UBR200 Universal Adaptor Base with Resistor
FF BRD200 Universal Adaptor Base with Resistor and Schottky Diode
FF BS200A Low Profile Adaptor Base

A copy of the certificate, confirming the full scope of approval including notes relating to the superscript references in the above table, may be viewed online by clicking on the product name in the associated entry on www.RedBookLive.com

Certificate No: 928e-(cl-1) to EN 54-7:2018

Certificated Products		LPCB Ref. No.
FF O1000	Conventional Photo Smoke Detector (FF UBR200 and FF BRD200 Bases)	928e/02

Certificated Products		LPCB Ref. No.
FF O200AL	Addressable Photoelectric Smoke Detector (FF BS200A Base) Note: 1. Meets the requirements of EN 54-7 at the following sensitivity settings: Optical only level 1 - High Optical only level 2 Optical only level 3 Optical only level 4 - Low	928e/03

Bases

FF UBR200 Universal Adaptor Base with Resistor
FF BRD200 Universal Adaptor Base with Resistor and Schottky Diode
FF BS200A Low Profile Adaptor Base

A copy of the certificate, confirming the full scope of approval including notes relating to the superscript references in the above table, may be viewed online by clicking on the product name in the associated entry on www.RedBookLive.com

Certificate No: 928f-(cl-1) to EN 54-5:2017+A1:2018, EN 54-7:2018, CEA 4021:2003

Certificated Products		LPCB Ref. No.
FF OT200AL	Addressable Photo & Category A1R Heat Detector (FF BS200A Base) Notes 1. Meets the requirements of EN 54-5 (Category A1) & EN 54-7 at the following settings: Multi criteria level 1 (most sensitive) - thermally enhanced smoke detection with Category A1 heat Multi criteria level 2 thermally enhanced smoke detection with Category A1 heat response Multi criteria level 3 thermally enhanced smoke detection with Category A1 heat response Multi criteria level 4 (least sensitive) - thermally enhanced smoke detection with Category A1 heat 2. Meets the requirements of EN 54-5 (Category A1R) at the following settings: Heat detection only Category A1R 3. Meets the requirements of EN 54-7 at the following settings: Optical only level 1 - High Optical only level 2 Optical only level 3 Optical only level 4 - Low	928f/02

Bases

FF BS200A Low Profile Adaptor Base

A copy of the certificate, confirming the full scope of approval including notes relating to the superscript references in the above table, may be viewed online by clicking on the product name in the associated entry on www.RedBookLive.com

Fire Fighter CO Security and Safety Equipment Trading LLC

Al Qusais Industry Area 4, P O Box 84926, Dubai, United Arab Emirates
Tel: 00971-4-2554494
E-mail: mutasem@firefighterco1.ae

Certificate No: 1174a-(cl-6) to EN 54-7:2018

Smoke Detectors

Certificated Products		LPCB Ref. No.
FST-6627	Addressable Optical Smoke Detector (FST-6617 base) (branded as FST) *Note:* *1. Meets the requirements of EN 54-7 at the following sensitivities:* *- Mode 0 (High)* *- Mode 1 (Factory Setting)*	1174a/02

Certificated Products		LPCB Ref. No.
	- Mode 2 *- Mode 3 (Low)*	

Bases
FST-6617 Addressable mounting base
A copy of the certificate, confirming the full scope of approval including notes relating to the superscript references in the above table, may be viewed online by clicking on the product name in the associated entry on www.RedBookLive.com

Certificate No: 1174b-(cl-6) to EN 54-5:2017 + A1:2018

Heat Detectors

Certificated Products		LPCB Ref. No.
FST-6637	Addressable Heat Detector (FST-6617 base) (branded as FST) *Note:* *1. Meets the requirements of EN 54-5 at Category A1R and A2*	1174b/02

Bases
FST-6617 Addressable mounting base
A copy of the certificate, confirming the full scope of approval including notes relating to the superscript references in the above table, may be viewed online by clicking on the product name in the associated entry on www.RedBookLive.com

Certificate No: 1174f-(cl-6) to EN 54-5:2017 + A1:2018, EN 54-7:2018, CEA 4021:2003

Multi-Sensor/Multi-Criteria Detectors

Certificated Products		LPCB Ref. No.
FST-6647	Addressable Smoke and Heat Detector (FST-6617 base) (branded as FST) *Notes:* *1) Meets the requirements of EN 54-5 at Category A1R and A2* *2) Meets the requirements of EN 54-7 at the following sensitivity settings* *- Smoke Mode 2 and A1R* *- Smoke Mode 2 and A2* *- Smoke Mode 2 (Smoke only), heat disabled*	1174f/01

Bases
FST-6617 Addressable mounting base
A copy of the certificate, confirming the full scope of approval including notes relating to the superscript references in the above table, may be viewed online by clicking on the product name in the associated entry on www.RedBookLive.com

---

Fireguard Safety Equipment Co Ltd

Unit 11 Chancel Industrial Estate, Newhall Street, Willenhall, West Midlands WV13 1NX, United Kingdom
Tel: +44 (0)8450 751042 • Fax: +44 (0)845 2991039
E-mail: info@fireguard-uk.com • Website: www.fireguard-uk.com

Certificate No: 512a-(cl-4) to EN 54-7: 2000 + A1: 2002 + A2: 2006

Certificated Products		LPCB Ref. No.
Fireguard FG318-2L	Conventional 2 wire photoelectric smoke detector with remove LED output (Fireguard P/N FG854001 base)	512a/02

Bases
Fireguard P/N FG854001 4 Wire Detector Base

A copy of the certificate, confirming the full scope of approval including notes relating to the superscript references in the above table, may be viewed online by clicking on the product name in the associated entry on www.RedBookLive.com

Certificate No: 512d-(cl-4) to EN54-5: 2000 + A1: 2002

Certificated Products		LPCB Ref. No.
Fireguard FG323-2L	Conventional 2 wire 24VDC class A2R fixed temperature and rate-of-rise heat detector with LED output (Fireguard P/N FG854001 base)	512d/04

Bases
Fireguard P/N FG854001 4 wire detector base
A copy of the certificate, confirming the full scope of approval including notes relating to the superscript references in the above table, may be viewed online by clicking on the product name in the associated entry on www.RedBookLive.com

Certificate No: 1330a-(cl-3) to EN 54-12:2015

Certificated Products		LPCB Ref. No.
FG-BD100	Conventional Reflective Beam Detector Notes: 1. Meets the requirements of EN 54-12: 2015 at the following sensitivity settings: - Level 1: 2.6 dB High sensitivity - Level 2: 3.8 dB Medium sensitivity - Level 3: 5.8 dB Low sensitivity 2. Suitable for use at the following separation ranges: - Span 1: 8 to 20 meters Short Path (1 x mirror reflector required) - Span 2: 20 to 40 meters Short Path (1 x mirror reflector required) - Span 3: 40 to 70 meters Normal Path (4 x mirror reflector required) - Span 4: 70 to 100 meters Long Path (4 x mirror reflector required)	1330a/01

Accessories:
Mounting Bracket
FG-BD100-R 1 x Mirror Reflector
FG-BD100-R 4 x Mirror Reflector
A copy of the certificate, confirming the full scope of approval including notes relating to the superscript references in the above table, may be viewed online by clicking on the product name in the associated entry on www.RedBookLive.com

Certificate No: 1138a-(cl-1) to EN 54-7:2000 + A1:2002 + A2:2006

Certificated Products		LPCB Ref. No.
FG-413SD-4	Conventional 4-WIRE Photoelectric Smoke Detector with Relay Output (B-01 base)	1138a/03
FG-413SD-2	Conventional 2-WIRE Photoelectric Smoke Detector with Remote LED (B-01 base)	1138a/04

Base:
B-01 Standard Base
A copy of the certificate, confirming the full scope of approval including notes relating to the superscript references in the above table, may be viewed online by clicking on the product name in the associated entry on www.RedBookLive.com

---

Firelite by Honeywell (Pittway Systems Technology Group (Europe) Ltd)

Honeywell Life Safety Systems, Charles Avenue, Burgess Hill, West Sussex RH15 9UF, United Kingdom
Tel: +44 1444 230 300 • Fax: +44 1444 230 888
E-mail: sales@morleyias.co.uk

Certificate No: 550a to EN 54-7: 2018
Certificate No: 550b to EN 54-5: 2017 + A1: 2018, EN 54-7: 2018 and CEA 4021: 1999
Certificate No: 550c to EN 54-5: 2017 + A1: 2018

Multi-Sensor/Multi-Criteria Detectors

Certificated Products		LPCB Ref. No.
FL/1003	Conventional photoelectric smoke detector (FL/1000B base)	550a/02
FL/1002	Conventional optical/thermal detector (FL/1000B base) *Notes:* *1. Meets the requirements of EN54-5 at category A1R at pre-set sensitivity.*	550b/02
FL/1005	Conventional Category A1R rate of rise heat detector (FL/1000B base)	550c/03

Bases
FL/1000B standard base

FIREX Protection System Technology Ltd

28-38 Desborough St, High Wycombe, Buckinghamshire, United Kingdom
Tel: 00971 653 40300 • Fax: 00971 653 40090
E-mail: QC@firexuae.com • Website: www.firexuae.com

Certificate No: 548c-(cl-3) to EN 54-5: 2017+ A1: 2018

Heat Detectors

Certificated Products		LPCB Ref. No.
FX9103E	Conventional Rate of Rise and Fixed Temperature Heat Detector (FX-01 Base) *1. Meets the requirements of EN 54-5:2017 + A1: 2018 for Class A1R, A2S & BS*	548c/03
FXI9103E	Intelligent Rate of Rise and Fixed Temperature Heat Detector (FX-01 Base) *Note:* *1. Meets the requirements of EN 54-5: 2017 + A1: 2018 for Class A1R, A2S & BS*	548c/04

Bases:

FX-01 Standard Base

A copy of the certificate, confirming the full scope of approval including notes relating to the superscript references in the above table, may be viewed online by clicking on the product name in the associated entry on www.RedBookLive.com

Certificate No: 548d-(cl-3) to EN 54-7: 2018

Smoke Detectors

Certificated Products		LPCB Ref. No.
FX9102E	Conventional Photoelectric Smoke Detector (FX-01 Base) *Note:* *1. Meets the requirements of EN 54-7:2018 at sensitivity level 1 (default) setting only*	548d/03
FXI9102E	Intelligent Photoelectric Smoke Detector (FX-01 Base) *Note:* *1. Meets the requirements of EN 54-7:2018 at sensitivity level 1 (default) setting only*	548d/04

Bases:

FX-01 Standard Base

A copy of the certificate, confirming the full scope of approval including notes relating to the superscript references in the above table, may be viewed online by clicking on the product name in the associated entry on www.RedBookLive.com

Certificate No: 548k-(cl-2) to EN 54-12: 2015

Beam Detectors

Certificated Products		LPCB Ref. No.
FX9105RI	Intelligent optical beam detector *Notes:* *1) Meets the requirements of EN 54-12 at the following sensitivity settings:* *Level 1 - 1.61 dB* *Level 2 - 2.31dB*	548k/01
FXI9105E	Intelligent Reflective Beam Detector *Notes:* *1) Meets the requirements of EN 54-12 at the following sensitivity settings:* • *Level 1 - 1.3 dB* • *Level 2 - 1.8 dB (factory default)* • *Level 3 - 2.3 dB*	548k/02

Certificated Products		LPCB Ref. No.
	• *Level 4 - 2.8 dB (not EN 54-12: 2015 approved)* *2) Suitable for use at the following separation ranges in each sensitivity level:* • *Span 1: 5 to 10 meters Short Path (1 x mirror reflector required with Non-Reflective Mask)* • *Span 2: 10 to 20 meters Short Path (1 x mirror reflector required)* • *Span 3: 20 to 40 meters Short Path (1 x mirror reflector required)* • *Span 4: 40 to 70 meters Normal Path (4 x mirror reflector required)* • *Span 5: (factory default) 70 to 100 meters Long Path (4 x mirror reflector required)*	
FX9105E	Conventional Reflective Beam Detector *Notes:* *1) Meets the requirements of EN 54-12 at the following sensitivity settings:* • *Level 1 - 1.3 dB* • *Level 2 - 1.8 dB (factory default)* • *Level 3 - 2.3 dB* • *Level 4 - 2.8 dB (not EN 54-12: 2015 approved)* *2) Suitable for use at the following separation ranges in each sensitivity level:* • *Span 1: 5 to 10 meters Short Path (1 x mirror reflector required with Non-Reflective Mask)* • *Span 2: 10 to 20 meters Short Path (1 x mirror reflector required)* • *Span 3: 20 to 40 meters Short Path (1 x mirror reflector required)* • *Span 4: 40 to 70 meters Normal Path (4 x mirror reflector required)* • *Span 5: (factory default) 70 to 100 meters Long Path (4 x mirror reflector required)*	548k/03

Accessories
BK-9105R Mounting Bracket
FXRF-9105R 1 x Mirror Reflector
FXRF-9105R 4 x Mirror Reflector
NRM-9105 Non-Reflective Mask

A copy of the certificate, confirming the full scope of approval including notes relating to the superscript references in the above table, may be viewed online by clicking on the product name in the associated entry on www.RedBookLive.com

Certificate No: 548q-(cl-2) to EN 54:5: 2017 + A1: 2018, EN 54-7: 2018, CEA 4021: 2003

Multi-Sensor/Multi-Criteria Detectors

Certificated Products		LPCB Ref. No.
FXI9101E	Intelligent Combination Heat / Photoelectric Smoke Detector (FX-01 Base) *Notes:* *1. Meets the requirements of EN 54-7: 2018 at sensitivity level 1 (default) setting only* *2. Meets the requirements of EN 54-5: 2017 + A1: 2018 for Class A2R*	548q/04

Bases:
FX-01 Standard Base

A copy of the certificate, confirming the full scope of approval including notes relating to the superscript references in the above table, may be viewed online by clicking on the product name in the associated entry on www.RedBookLive.com

Frontier Safety Ltd UK

85 Great Portland Street, London, England W1W 7, United Kingdom
Tel: 00447708000050
E-mail: mikefrontiersafety@gmail.com • Website: www.frontierpumps.com

Certificate No: 1426b-(cl-5) to EN 54-5: 2017 + A1: 2018

Certificated Products		LPCB Ref. No.
FRN 20	Intelligent Addressable Fire Alarm Heat Detector (Base DZ-912) *Notes:* *Meets the requirements of EN 54-5 for Category A2*	1426b/01

Bases
DZ-912
EB0010 Standard Base
EB0020 Relay Base
EB0110 Standard Base
EB0120 Relay Base

A copy of the certificate, confirming the full scope of approval including notes relating to the superscript references in the above table, may be viewed online by clicking on the product name in the associated entry on www.RedBookLive.com

Certificate No: 1426c-(cl-5) to EN 54-7:2018

Certificated Products		LPCB Ref. No.
FRN 30	Intelligent Addressable Fire Alarm Smoke Detector (DZ-912 Base) *Notes:* *Meets the requirements of EN 54-7 for 1 sensitivity setting*	1426c/01

Bases
EB0010 Standard Base
EB0020 Relay Base
EB0110 Standard Base
EB0120 Relay Base

A copy of the certificate, confirming the full scope of approval including notes relating to the superscript references in the above table, may be viewed online by clicking on the product name in the associated entry on www.RedBookLive.com

Certificate No: 1426k-(cl-3) to EN 54-5:2017 + A1:2018 & EN 54-7:2018

Certificated Products		LPCB Ref. No.
FRN 36	Analogue Addressable Optical/Heat Multi-sensor Detector (Base DZ-912) *Notes:* 1. *Meets the requirements of EN 54-7 using Modes 1 & 2 at sensitivity level 1 and EN 54-5 using Modes 1 & 2 for Category A2R, and A2.* 2. *Meets the requirements of EN 54-5 using Modes 3 & 4 for Category A2R, and A2S* 3. *Meets the requirements of EN 54-7 using Mode 5 at sensitivity level 1*	1426k/01

Bases:
DZ 912
EB0010 Standard Base
EB0020 Relay Base
EB0110 Standard Base
EB0120 Relay Base

A copy of the certificate, confirming the full scope of approval including notes relating to the superscript references in the above table, may be viewed online by clicking on the product name in the associated entry on www.RedBookLive.com

Certificate No: 991b-(cl-1) to EN 54-5:2017 + A1:2018, EN 54-7:2018, EN 54-17:2005, CEA 4021:2003

Certificated Products		LPCB Ref. No.
ED300	Intelligent Analogue Addressable Multi-Criteria Detector with Short Circuit Isolator (EB0010, EB0020, EB0110 and EB0120 bases) Notes: 1) Meets EN 54-7 with Low, Medium-Low, Medium-High and High sensitivities. 2) Meets the requirements of EN 54-5 at category A1R and category B.	991b/01

Bases

EB0010	Standard Base
EB0020	Relay Base
EB0110	Standard Base
EB0120	Relay Base

A copy of the certificate, confirming the full scope of approval including notes relating to the superscript references in the above table, may be viewed online by clicking on the product name in the associated entry on www.RedBookLive.com

Certificate No: 991f-(cl-1) to EN 54-5:2017 + A1:2018

Certificated Products		LPCB Ref. No.
ED200	Intelligent Analogue Addressable Category P Heat Detector with Short Circuit Isolator (EB0010, EB0020, EB0110 and EB0120 bases)Note: 1) Meets the requirements of EN 54-5 at category A1R & category B	991f/01

Bases

EB0010	Standard Base
EB0020	Relay Base
EB0110	Standard Base
EB0120	Relay Base

A copy of the certificate, confirming the full scope of approval including notes relating to the superscript references in the above table, may be viewed online by clicking on the product name in the associated entry on www.RedBookLive.com

Certificate No: 991d-(cl-1) to EN 54-7:2018, EN 54-17:2005

Certificated Products		LPCB Ref. No.
ED100	Intelligent Analogue Addressable Optical Smoke Detector with Short Circuit Isolator (EB0010, EB0020, EB0110 and EB0120 bases) Note: 1) Meets EN 54-7 with Low, Medium-Low, Medium-High and High sensitivities.	991d/01

Bases

EB0010	Standard Base
EB0020	Relay Base
EB0110	Standard Base
EB0120	Relay Base

A copy of the certificate, confirming the full scope of approval including notes relating to the superscript references in the above table, may be viewed online by clicking on the product name in the associated entry on www.RedBookLive.com

Gent By Honeywell (Novar Systems Ltd)

Building 5, Carlton Park, King Edward Avenue, Narborough, Leicester LE19 0AL, United Kingdom
Tel: +44 (0)116 246 2000 • Fax: +44 (0)116 246 2300
E-mail: gent_enquiry@gent.co.uk • Website: www.gent.co.uk

Middle East Sales Enquiries:
E-mail: gent.export@honeywell.com

Certificate No: 042bd to EN54-7: 2018, EN54-17: 2005, EN54-18: 2005

Smoke Detectors

Certificated Products		LPCB Ref. No.
S4-715	S-Quad Analogue Addressable Optical Smoke Detector with Short Circuit Isolator (S4-700 Standard base with or without S4-FLUSH semi-flush fixing kit and S4-700-34K) *Note:* *1) Meets the requirements of EN 54: Part 7 at the following settings:* *State 0 - Medium optical* *State 3 - High sensitivity* *State 4 - Medium optical (no spike)* *State 8 - Delayed medium optical*	042bd/01

Bases:
S4-700 Standard base
S4-FLUSH Semi-flush fixing kit
S4BK-700 Standard base (black)
S4-700-34K Fusion Adaptor base
A copy of the certificate, confirming the full scope of approval including notes relating to the superscript references in the above table, may be viewed online by clicking on the product name in the associated entry on www.RedBookLive.com

Certificate No: 042ak to EN 54-5: 2017 + A1: 2018, EN 54-3:2014 + A1:2019, EN 54-17: 2005 and EN 54-18: 2005

Point Heat Detectors

Certificated Products		LPCB Ref. No.
S4-780-S	Analogue Addressable Category P Heat Sensor with Sounder with Short Circuit Isolator (S4-700 Standard Base and S4-700-34K) Notes:1. Meets the requirements of EN 54-3 at the following tone settings: High - Continuous 933 Hz Alternate - High 933 Hz for 0.25 secs / Low 700 Hz for 0.25 secs 2. Meets the requirements of EN 54-5 at the following settings: - State 0 - Category A1 heat - State 5 - Category B heat - State 6 - Category BS heat - State 7 - Category A2S heat - State 13 - Category A2 heat	042ak/04
S4M-780-S	Analogue Addressable Category P Heat Sensor with Sounder with Short Circuit Isolator (S4-700, S4-700-34K and S4 FLUSH) Notes: 1. Meets the requirements of EN 54-3 at the following sounder tone settings: • High - Continuous 933 Hz • Alternate - High 933 Hz for 0.25 secs / Low 700 Hz for 0.25 secs 2. Meets the requirements of EN 54-5 at the following settings: • State 0 - Category A1 heat • State 5 - Category B heat • State 6 – Category BS heat • State 7 – Category A2S heat • State 13 – Category A2 heat	042ak/05
S4T-780-S	S4 Heat Sensor Sounder (Self Test Function) (S4-700 Standard Base, S4-700-34K and S4 FLUSH) Notes: 1. Meets the requirements of EN 54-3 at the following sounder tone settings: • High - Continuous 933 Hz	042ak/06

Certificated Products **LPCB Ref. No.**

- Alternate - High 933 Hz for 0.25 secs / Low 700 Hz for 0.25 secs

2. Meets the requirements of EN 54-5 at the following settings:
   - State 0 - Category A1 heat
   - State 5 - Category B heat
   - State 6 - Category BS heat
   - State 7 - Category A2S heat
   - State 13 - Category A2 heat

Bases:
17800-01 standard base
17801-01 standard base with diode
17800-02 low profile base
17801-02 low profile base with diode
S4-700 standard base
S4-FLUSH semi-flush fixing kit
S4BK-700 standard base (black)
S4-700-34K Fusion Adapter base
A copy of the certificate, confirming the full scope of approval including notes relating to the superscript references in the above table, may be viewed online by clicking on the product name in the associated entry on www.RedBookLive.com

Certificate No: 042bf to EN54-5: 2017+A1: 2018, EN54-7: 2018, EN54-17: 2005, EN54-18: 2005

Multi-criteria Detectors

Certificated Products		**LPCB Ref. No.**
S4-710	S-Quad analogue addressable optical smoke and Category A1 heat multisensor detector (S4-700 Standard base with or without S4-FLUSH semi-flush mounting kit and S4-700-34K) *Note:* *1) Meets the requirement of EN 54-5 and EN 54-7 at the following settings except where otherwise stated:* *State 0 - Medium optical / Category A1 heat* *State 2 - Low sensitivity / Category A1 heat** *State 3 - High sensitivity / Category A1 heat* *State 4 - Medium optical (no spoke) / Category A1 heat* *State 5 - Medium optical / Category B heat* *State 6 - Low sensitivity / Category BS heat** *State 7 - Medium optical / Category A2S heat* *State 8 - Delayed medium optical / Category A1 heat* *State 11 - Low sensitivity / Category B heat** *State 12 - Off / Category A1 heat** **Does not meet the requirement of EN 54-7*	042bf/01
S4-711	S-Quad analogue addressable dual optical smoke and Cateogry P heat multisensor detector (S4-700 Standard base with or without S4-FLUSH semi-flush fixing kit and S4-700-34K) *Notes:* *1) Meets the requirement of EN 54-5 and EN 54-7 at the following settings except where otherwise stated:* *State 0 - Medium optical / Category A1 heat* *State 2 - Low sensitivity / Category A1 heat** *State 3 - High sensitivity / Category A1 heat* *State 4 - Medium optical (no spoke) / Category A1 heat* *State 5 - Medium optical / Category B heat* *State 6 - Low sensitivity / Category BS heat** *State 7 - Medium optical / Category A2S heat* *State 8 - Delayed medium optical / Category A1 heat* *State 11 - Low sensitivity / Category B heat** *State 12 - Off / Category A1 heat** **Does not meet the requirement of EN 54-7*	042bf/02
S4BK-711	S-Quad Analogue Addressable Dual Optical Smoke and Category P Heat Multi-Sensor (Black Body Variant) (S4BK-700 base with or without S4-FLUSH semi-flush fixing kit) *Note:* *1.Meets the requirement of EN 54-5 and EN 54-7 at the following settings except where otherwise stated:* *State 0 - Medium optical* / Category *A1 heat* *State 2 - Low sensitivity* / Category *A1 heat** *State 3 - High sensitivity* / Category *A1 heat* *State 4 - Medium optical (no spoke)* / Category *A1 heat* *State 5 - Medium optical* / Category *B heat* *State 6 - Low sensitivity* / Category *BS heat**	042bf/03

Certificated Products		LPCB Ref. No.
	State 7 - Medium optical / Category *A2S heat* *State 8 - Delayed medium optical* / Category *A1 heat* *State 11 - Low sensitivity* / Category *B heat** *State 12 - Off / Class A1 heat** **Does not meet the requirement of EN 54-7*	
S4T-710	S4 Optical Heat Sensor (Self Test Function) (S4-700 Standard base with or without S4-FLUSH semi-flush mounting kit and S4-700-34K) Note: 1. Meets the requirement of EN 54-5 and EN 54-7 at the following settings except where otherwise stated: • State 0 - Medium optical / Category A1 heat • State 2 - Low sensitivity / Category A1 heat* • State 3 - High sensitivity / Category A1 Heat • State 4 - Medium optical (No Spike) / Category A1 heat • State 5 - Medium optical / Category B heat • State 6 - Low sensitivity / Category BS heat* • State 7 - Medium optical / Category A2S heat • State 8 - Delayed medium optical / Category A1 heat • State 11 - Low sensitivity / Category B heat* • State 12 - Off / Category A1 heat* *Does not meet the requirement of EN 54-7	042bf/04
S4T-711	S4 Dual Optical Heat Sensor (Self Test Function) (S4-700 Standard Base with or without S4-FLUSH Semi-flush mounting kit and S4-700-34K) Notes: 1. Meets the requirement of EN 54-5 and EN 54-7 at the following settings except where otherwise stated: • State 0 - Medium optical / Category A1 heat • State 2 - Low sensitivity / Category A1 heat* • State 3 - High sensitivity / Category A1 heat • State 4 - Medium optical (no spike) / Category A1 heat • State 5 - Medium optical / Category B heat • State 6 - Low sensitivity / Category BS heat* • State 7 - Medium optical / Category A2S heat • State 8 - Delayed medium optical / Category A1 heat • State 11 - Low sensitivity / Category B heat* • State 12 - Off / Category A1 heat* *Does not meet with the requirements of EN 54-7	042bf/05

Bases:
S4-700 standard base
S4-701 S Quad plate and base
S4-FLUSH semi-flush fixing kit
S4BK-700 standard base (black)
S4BK-705 Black IP21 base covers (pack 5)
S4-700-34K Fusion Adaptor base

A copy of the certificate, confirming the full scope of approval including notes relating to the superscript references in the above table, may be viewed online by clicking on the product name in the associated entry on www.RedBookLive.com

Certificate No: 042bh to EN 54-12: 2015 and EN 54-17: 2005

Beam Detectors

Certificated Products		LPCB Ref. No.
S4-34740	Analogue addressable optical beam smoke detector with short circuit isolator (S4-34741-01, S4-34741-03 and S4-700 base) *Notes:* *1. The S4-34740 beam sensor pair comprises of an S4-34741 beam transmitter, plus an S4-34742 beam receiver.* *2. Meets the requirements of EN 54-12 at the following sensitivity settings:* *States 0, 1: 3.01dB* *States 2, 3: 1.25dB*	042bh/01

Ancillaries:
S4-34741-01 beam angle bracket
S4-34741-03 beam parallel bracket
S4-700 Base

A copy of the certificate, confirming the full scope of approval including notes relating to the superscript references in the above table, may be viewed online by clicking on the product name in the associated entry on www.RedBookLive.com

Certificate No: 042be to EN54-5: 2017+A1: 2018, EN54-17: 2005, EN54-18: 2005

Heat Detectors

Certificated Products		LPCB Ref. No.
S4-720	S-Quad Analogue Addressable Category P Heat Detector with Short Circuit Isolator (S4-700 Standard base with or without S4-FLUSH semi-flush mounting kit and S4-700-34K) Note: Meets the requirement of EN 54-5 at the following settings: - State 0 - Category A1 heat - State 5 - Category B heat - State 6 - Category BS heat - State 7 - Category A2S heat - State 13 - Category A2 heat	042be/01
S4T-720	S4 Heat Sensor (Self Test Function) (S4-700 Standard base with or without S4-FLUSH semi-flush kit and S4-700-34K) Note: 1. Meets the requirement of EN 54-5 at the following settings: • State 0 - Category A1 heat • State 5 - Category B heat • State 6 - Category BS heat • State 7 - Category A2S heat • State 13 - Category A2 heat	042be/02

Bases
S4-700 standard base
S4-FLUSH semi-flush fixing kit
S4BK-700 standard base (black)
S4-700-34K Fusion Adapter base

A copy of the certificate, confirming the full scope of approval including notes relating to the superscript references in the above table, may be viewed online by clicking on the product name in the associated entry on www.RedBookLive.com

Certificate No: 042an to EN 54-5: 2017 + A1: 2018, EN 54-7:2018, EN 54-3:2014 + A1:2019, EN 54-17: 2005, EN 54-18: 2005 and CEA 4021: 2003

Multi-Sensor/Multi-Criteria Detectors

Certificated Products		LPCB Ref. No.
S4-770	S-Quad analogue addressable optical smoke and Category A1 heat multisensor detector with sounder (S4-700 Standard base with or without S4-FLUSH semi-flush mounting kit) Note: 1) Meets the requirement of EN 54: Part 5 and requirements of EN 54: Part 7 at the following settings: State 0 - Medium optical / Category A1 heat 2) Meets the requirements of EN 54: Part 3 at the following sounder tone settings: High - Continuous 933 Hz Alternate - High 933 Hz for 0.25 secs / Low 700 Hz for 0.25 secs	042an/04

Bases
S4-700 standard base
S4-FLUSH semi-flush fixing kit

A copy of the certificate, confirming the full scope of approval including notes relating to the superscript references in the above table, may be viewed online by clicking on the product name in the associated entry on www.RedBookLive.com

Certificate No: 042bv to EN 54-3:2014 + A1:2019, EN54-5: 2017 + A1: 2018, EN54-17: 2005, EN54-18: 2005, EN54-23: 2010

Multi-Sensor/Multi-Criteria Detectors

Certificated Products		LPCB Ref. No.
S4-720-V-VAD-HPR	Analogue Addressable Category P Heat Sensor with Voice, Sounder and Red Visual Alarm (S4-701 Base and S4-700-34K)	042bv/01

Certificated Products		LPCB Ref. No.
	Notes: 1. Meets the requirements of EN 54-3 at the following sounder tone settings: High - Continuous 933 Hz Alternate - High 933 Hz for 0.25 secs / Low 700 Hz for 0.25 secs 2. Meets the requirements of EN 54-5 at the following settings: State 0 - Category A1 heat State 5 - Category B heat 3. The ceiling mounted Visual Alarm Device (VAD) meets the requirements of EN 54-23 for the following: - Category (light pattern details) @ High power setting - (Category C: C-3-14 and Category O: O-4.5-14) @ Medium power setting - (Category C: C-3-13 and Category O: O-4-13) @ Low power setting - (Category C: C-3-10 and Category O: None) - Synchronization - Flash rate 2 seconds (0.5Hz) 4. Must be used with the S4-701 base and IP seal plate in order to achieve IP21C	
S4-720-V-VAD-HPW	Analogue Addressable Category P Heat Sensor with Voice, Sounder and White Visual Alarm (S4-701 base and S4-700-34K) Notes:1. Meets the requirements of EN 54-3 at the following sounder tone settings: High - Continuous 933 Hz Alternate - High 933 Hz for 0.25 secs / Low 700 Hz for 0.25 secs 2. Meets the requirements of EN 54-5 at the following settings: State 0 - Category A1 heat State 5 - Category B heat 3. The ceiling mounted Visual Alarm Device (VAD) meets the requirements of EN 54-23 for the following: - Category (light pattern details) @ High power setting - (Category C: C-6-16 and Category O: None) @ Medium power setting - (Category C: C-3-14 and Category O: O-5-14) @ Low power setting - (Category C: C-3-10.8 and Category O: O-4-10.8 - Synchronization - Flash rate 2 seconds (0.5Hz) 4. Must be used with the S4-701 base and IP seal plate in order to achieve IP21CNotes:	042bv/02
S4T-720-V-VAD-HPR	S4 Heat Sensor Sounder High Powered Red VAD (Self Test Function) (S4-701 Base and S4 FLUSH) Notes: 1. Meets the requirements of EN 54-3 at the following sounder tone settings: High- Continuous 933 Hz Alternate - High 933 Hz for 0.25 secs / Low 700 Hz for 0.25 secs 2. Meets the requirements of EN 54-5 at the following settings: • State 0 - Category A1 Heat • State 5 - Category B Heat • State 6 - Category BS Heat • State 7 - Category A2S Heat • State 13 - Category A2 Heat 3. The ceiling mounted Visual Alarm Device (VAD) meets the requirements of EN 54-23 for the following category (light pattern details): • High power setting - (Category C: C-3-14 and Category O: O-4.5-14) • Medium power setting - (Category C: C-3-13 and Category O: O-4-13) • Low power setting - (Category C: C-3-10 and Category O: None) • Synchronization • Flash rate 2 seconds (0.5Hz) 4. Must be used with the S4-701 base and IP seal plate in order to achieve IP21C	042bv/03
S4M-720-V-VAD-HPR	S4 Heat Sensor Voice Sounder High Power Red VAD (S4-701 Base) Notes: 1. Meets the requirements of EN 54-3 at the following sounder tone settings: - High - Continuous 933 Hz - Alternate - High 933 Hz for 0.25 secs / Low 700 Hz for 0.25 secs 2. Meets the requirements of EN 54-5 at the following settings: - State 0 - Category A1 heat - State 5 - Category B heat - State 6 - Category BS heat - State 7 - Category A2S heat - State 13 - Category A2 heat 3. The ceiling mounted Visual Alarm Device (VAD) meets the requirements of EN 54-23 for the following category (light pattern details): - Low power setting - (Category C: C-3-10 and Category O: None) - Synchronization - Flash rate 2 seconds (0.5Hz) 4. Must be used with the S4-701 base and IP seal plate in order to achieve IP21C	042bv/04

Bases:
S4-701 S Quad plate and base
S4-FLUSH semi-flush fixing kit
S4-700-34K Fusion Adaptor base

A copy of the certificate, confirming the full scope of approval including notes relating to the superscript references in the above table, may be viewed online by clicking on the product name in the associated entry on www.RedBookLive.com

Certificate No: 042ca to EN 54-3:2014 + A1:2019, EN54-5: 2017 + A1: 2018, EN 54-7: 2018, EN54-17: 2005, EN54-18: 2005,

Multi-Sensor/Multi-Criteria Detectors

Certificated Products		**LPCB Ref. No.**
S4-711-V	Analogue Addressable Dual Optical Smoke and Category P Heat Multi-Sensor Detector with Speech (S4-700 Standard Base with or without S4-FLUSH Semi-flush mounting kit and **S4-700-34K**) Notes: 1. Meets the requirements of EN 54-3 at the following sounder tone settings: • High – Continuous 933 Hz • Alternate – High 933 Hz for 0.25 secs / Low 700 Hz for 0.25 secs 2. Meets the requirements of EN 54-5 and EN 54-7 at the following settings except where otherwise stated: • State 0 - Medium optical / Category A1 heat • State 2 – Low sensitivity / Category A1 heat* • State 3 - High sensitivity / Category A1 heat • State 4 - Medium optical (no spike) / Category A1 heat • State 5 - Medium optical / Category B heat • State 6 – Low sensitivity / Category BS heat* • State 7 - Medium optical / Category A2S heat • State 8 - Delayed medium optical / Category A1 heat • State 11 – Low sensitivity / Category B heat* • State 12 - Off / Category A1 heat* *Does not meet with the requirements of EN 54-7	042ca/01
S4-771-S	Analogue Addressable Dual Optical Smoke and Category P Heat Multi-Sensor Detector with Sounder (S4-700 Standard Base with or without S4-FLUSH Semi-flush mounting kit and **S4-700-34K**) Notes: 1. Meets the requirements of EN 54-3 at the following sounder tone settings: • High – Continuous 933 Hz • Alternate – High 933 Hz for 0.25 secs / Low 700 Hz for 0.25 secs 2. Meets the requirements of EN 54-5 and EN 54-7 at the following settings except where otherwise stated: • State 0 - Medium optical / Category A1 heat • State 2 – Low sensitivity / Category A1 heat* • State 3 - High sensitivity / Category A1 heat • State 4 - Medium optical (no spike) / Category A1 heat • State 5 - Medium optical / Category B heat • State 6 – Low sensitivity / Category BS heat* • State 7 - Medium optical / Category A2S heat • State 8 - Delayed medium optical / Category A1 heat • State 11 – Low sensitivity / Category B heat* • State 12 - Off / Category A1 heat* *Does not meet with the requirements of EN 54-7	042ca/02
S4-770-S	Analogue Addressable Optical Smoke and Category P Heat Multi-Sensor Detector with Sounder (S4-700 Standard Base with or without S4-FLUSH Semi-flush mounting kit and **S4-700-34K**) Notes: 1. Meets the requirements of EN 54-3 at the following sounder tone settings: • High – Continuous 933 Hz • Alternate – High 933 Hz for 0.25 secs / Low 700 Hz for 0.25 secs 2. Meets the requirements of EN 54-5 and EN 54-7 at the following settings except where otherwise stated: • State 0 - Medium optical / Category A1 heat • State 2 – Low sensitivity / Category A1 heat* • State 3 - High sensitivity / Category A1 heat • State 4 - Medium optical (no spike) / Category A1 heat • State 5 - Medium optical / Category B heat • State 6 – Low sensitivity / Category BS heat* • State 7 - Medium optical / Category A2S heat	042ca/03

Certificated Products		LPCB Ref. No.
	• State 8 - Delayed medium optical / Category A1 heat • State 11 – Low sensitivity / Category B heat* • State 12 - Off / Category A1 heat* *Does not meet with the requirements of EN 54-7	
S4BK-711-V	Analogue Addressable Dual Optical Smoke and Category P Heat Multi-sensor with Speech Sounder (Black Body Variant) (S4BK-700 Base with or without S4-FLUSH Semi-flush mounting kit) Notes: 1. Meets the requirements of EN 54-3 at the following sounder tone settings: • High – Continuous 933 Hz • Alternate – High 933 Hz for 0.25 secs/ Low 700 Hz for 0.25 secs 2. Meets the requirements of EN 54-5 and EN 54-7 at the following settings except where otherwise stated: • State 0 - Medium optical / Category A1 heat • State 2 – Low sensitivity / Category A1 heat* • State 3 - High sensitivity / Category A1 heat • State 4 - Medium optical (no spike) / Category A1 heat • State 5 - Medium optical / Category B heat • State 6 – Low sensitivity / Category BS heat* • State 7 - Medium optical / Category A2S heat • State 8 - Delayed medium optical / Category A1 heat • State 11 – Low sensitivity / Category B heat* • State 12 - Off / Category A1 heat* *Does not meet with the requirements of EN 54-7	042ca/04
S4M-771-S	Analogue Addressable Dual Optical Smoke and Category P Heat Multi-Sensor Detector with Sounder (S4-700 Standard Base with or without S4-FLUSH Semi-flush mounting kit and **S4-700-34K**) Notes: 1. Meets the requirements of EN 54-3 at the following sounder tone settings: • High – Continuous 933 Hz • Alternate – High 933 Hz for 0.25 secs / Low 700 Hz for 0.25 secs 2. Meets the requirements of EN 54-5 and EN 54-7 at the following settings except where otherwise stated: • State 0 - Medium optical / Category A1 heat • State 2 – Low sensitivity / Category A1 heat* • State 3 - High sensitivity / Category A1 heat • State 4 - Medium optical (no spike) / Category A1 heat • State 5 - Medium optical / Category B heat • State 6 – Low sensitivity / Category BS heat* • State 7 - Medium optical / Category A2S heat • State 8 - Delayed medium optical / Category A1 heat • State 11 – Low sensitivity / Category B heat* • State 12 - Off / Category A1 heat* *Does not meet with the requirements of EN 54-7	042ca/05
S4M-770-S	Analogue Addressable Optical Smoke and Category P Heat Multi-Sensor Detector with Sounder (S4-700 Standard Base with or without S4-FLUSH Semi-flush mounting kit and **S4-700-34K**) Notes: 1. Meets the requirements of EN 54-3 at the following sounder tone settings: • High – Continuous 933 Hz • Alternate – High 933 Hz for 0.25 secs / Low 700 Hz for 0.25 secs 2. Meets the requirements of EN 54-5 and EN 54-7 at the following settings except where otherwise stated: • State 0 - Medium optical / Category A1 heat • State 2 – Low sensitivity / Category A1 heat* • State 3 - High sensitivity / Category A1 heat • State 4 - Medium optical (no spike) / Category A1 heat • State 5 - Medium optical / Category B heat • State 6 – Low sensitivity / Category BS heat* • State 7 - Medium optical / Category A2S heat • State 8 - Delayed medium optical / Category A1 heat • State 11 – Low sensitivity / Category B heat* • State 12 - Off / Category A1 heat* *Does not meet with the requirements of EN 54-7	042ca/06
S4T-770-S	S4 Optical Heat Sensor Sounder (Self Test Function) (S4-700 Standard Base with or without S4-FLUSH Semi-flush mounting kit and S4-700-34K) Notes: 1. Meets the requirements of EN 54-3 at the following sounder tone settings: • High- Continuous 933 Hz • Alternate – High 933 Hz for 0.25 secs / Low 700 Hz for 0.25 secs	042ca/07

Certificated Products		LPCB Ref. No.
	2. Meets the requirement of EN 54-5 and EN 54-7 at the following settings except where otherwise stated: • State 0 - Medium optical / Category A1 heat • State 2 – Low sensitivity / Category A1 heat* • State 3 - High sensitivity / Category A1 heat • State 4 - Medium optical (no spike) / Category A1 heat • State 5 - Medium optical / Category B heat • State 6 – Low sensitivity / Category BS heat* • State 7 - Medium optical / Category A2S heat • State 8 - Delayed medium optical / Category A1 heat • State 11 – Low sensitivity / Category B heat* • State 12 - Off / Category A1 heat* *Does not meet with the requirements of EN 54-7	
S4T-771-S	S4 Dual Optical Heat Sensor Sounder (Self Test Function) (S4-700 Standard Base with or without S4-FLUSH Semi-flush mounting kit and S4-700-34K) Notes: 1. Meets the requirements of EN 54-3 at the following sounder tone settings: • High – Continuous 933 Hz • Alternate – High 933 Hz for 0.25 secs / Low 700 Hz for 0.25 secs 2. Meets the requirement of EN 54-5 and EN 54-7 at the following settings except where otherwise stated: • State 0 - Medium optical / Category A1 heat • State 2 – Low sensitivity / Category A1 heat* • State 3 - High sensitivity / Category A1 heat • State 4 - Medium optical (no spike) / Category A1 heat • State 5 - Medium optical / Category B heat • State 6 – Low sensitivity / Category BS heat* • State 7 - Medium optical / Category A2S heat • State 8 - Delayed medium optical / Category A1 heat • State 11 – Low sensitivity / Category B heat* • State 12 - Off / Category A1 heat* *Does not meet with the requirements of EN 54-7	042ca/09
S4T-711-V	S4 Dual Optical Heat Sensor Voice Sounder (Self Test Function) (S4-700 Standard Base with or without S4-FLUSH Semi-flush mounting kit and S4-700-34K) Notes: 1. Meets the requirements of EN 54-3 at the following sounder tone settings: • High – Continuous 933 Hz • Alternate – High 933 Hz for 0.25 secs/ Low 700 Hz for 0.25 secs 2. Meets the requirements of EN 54-5 and EN 54-7 at the following settings except where otherwise stated: • State 0 - Medium optical / Category A1 heat • State 2 – Low sensitivity / Category A1 heat* • State 3 - High sensitivity / Category A1 heat • State 4 - Medium optical (no spike) / Category A1 heat • State 5 - Medium optical / Category B heat • State 6 – Low sensitivity / Category BS heat* • State 7 - Medium optical / Category A2S heat • State 8 - Delayed medium optical / Category A1 heat • State 11 – Low sensitivity / Category B heat* • State 12 - Off / Category A1 heat* *Does not meet with the requirements of EN 54-7	042ca/10
S4M-711-V	S4 Dual Optical Heat Sensor Voice Sounder (S4-700 Standard Base with or without S4-FLUSH Semi-flush mounting kit and **S4-700-34K**) Notes: 1. Meets the requirements of EN 54-3 at the following sounder tone settings: • High – Continuous 933 Hz • Alternate – High 933 Hz for 0.25 secs / Low 700 Hz for 0.25 secs 2. Meets the requirements of EN 54-5 and EN 54-7 at the following settings except where otherwise stated: • State 0 - Medium optical / Category A1 heat • State 2 – Low sensitivity / Category A1 heat* • State 3 - High sensitivity / Category A1 heat • State 4 - Medium optical (no spike) / Category A1 heat • State 5 - Medium optical / Category B heat • State 6 – Low sensitivity / Category BS heat* • State 7 - Medium optical / Category A2S heat • State 8 - Delayed medium optical / Category A1 heat • State 11 – Low sensitivity / Category B heat* • State 12 - Off / Category A1 heat*	042ca/11

Certificated Products		LPCB Ref. No.
	*Does not meet with the requirements of EN 54-7	
S4MB-711-V	S4 Dual Optical Heat Sensor Voice Sounder Black Body (S4-700 Standard Base with or without S4-FLUSH Semi-flush mounting kit and S4-700-34K) Notes: 1. Meets the requirements of EN 54-3 at the following sounder tone settings: • High – Continuous 933 Hz • Alternate – High 933 Hz for 0.25 secs / Low 700 Hz for 0.25 secs 2. Meets the requirement of EN 54-5 and EN 54-7 at the following settings except where otherwise stated: • State 0 - Medium optical / Category A1 heat • State 2 – Low sensitivity / Category A1 heat* • State 3 - High sensitivity / Category A1 heat • State 4 - Medium optical (no spike) / Category A1 heat • State 5 - Medium optical / Category B heat • State 6 – Low sensitivity / Category BS heat* • State 7 - Medium optical / Category A2S heat • State 8 - Delayed medium optical / Category A1 heat • State 11 – Low sensitivity / Category B heat* • State 12 - Off / Category A1 heat* *Does not meet with the requirements of EN 54-7	042ca/12

Bases:
S4-700 standard base
S4-701 S Quad plate and base
S4-FLUSH semi-flush fixing kit
S4BK-700 standard base (black)
S4BK-705 Black IP21 base covers (pack 5)
S4-700-34K Fusion Adaptor base

A copy of the certificate, confirming the full scope of approval including notes relating to the superscript references in the above table, may be viewed online by clicking on the product name in the associated entry on www.RedBookLive.com

Certificate No: 042bu to EN 54-3:2014 + A1:2019, EN54-5: 2017 + A1: 2018, EN 54-7: 2018, EN54-17: 2005, EN54-18: 2005

Multi-Sensor/Multi-Criteria Detectors

Certificated Products		LPCB Ref. No.
S4-911-V-VAD-HPR	Analogue Addressable Dual Optical Smoke and Category P Heat and CO Multi-Sensor Detector with Speech, Sounder and Red Visual Alarm (S4-701 Base and S4-700-34K) Notes: 1. Meets the requirements of EN 54-3 at the following sounder tone settings: • High - Continuous 933 Hz • Alternate - High 933 Hz for 0.25 secs / Low 700 Hz for 0.25 secs 2. Meets the requirements of EN 54-5 and EN 54-7 at the following settings except where otherwise stated: • State 0 - Medium optical / Category A1 heat • State 1 - High sensitivity / Category A1 heat • State 2 - Low sensitivity / Category A1 heat • State 4 - Medium optical (no spike) / Category A1 heat • State 6 - Low sensitivity / Category BS heat* • State 7 - Medium optical / Category A2S heat • State 9 - Category A1 heat* • State 11 - Low sensitivity / Category B heat • State 12 - Off / Category A1 heat* *Does not meet the requirements of EN 54-7 3. The ceiling mounted Visual Alarm Device (VAD) meets the requirements of EN 54-23 for the following category (light pattern details): • High power setting - (Category C: C-3-14 and Category O: O-4.5-14) • Medium power setting - (Category C: C-3-13 and Category O: O-4-13) • Low power setting - (Category C: C-3-10) • Synchronization • Flash rate 2 seconds (0.5Hz) 4. Must be used with the S4-701 base and IP seal plate in order to achieve IP21C	042bu/04
S4-911-V-VAD-HPW	Analogue Addressable Dual Optical Smoke and Category P Heat and CO Multi-Sensor Detector with Speech, Sounder and White Visual Alarm (S4-701 Base and S4-700-34K) Notes: 1. Meets the requirements of EN 54-3 at the following sounder tone settings: • High - Continuous 933 Hz • Alternate - High 933 Hz for 0.25 secs / Low 700 Hz for 0.25 secs	042bu/05

Certificated Products		LPCB Ref. No.
	2. Meets the requirements of EN 54-5 and EN 54-7 at the following settings except where otherwise stated: • State 0 - Medium optical / Category A1 heat • State 1 - High sensitivity / Category A1 heat • State 2 - Low sensitivity / Category A1 heat • State 4 - Medium optical (no spike) / Category A1 heat • State 6 - Low sensitivity / Category BS heat* • State 7 - Medium optical / Category A2S heat • State 9 - Category A1 heat* • State 11 - Low sensitivity / Category B heat • State 12 - Off / Category A1 heat* *Does not meet the requirements of EN 54-7 3. The ceiling mounted Visual Alarm Device (VAD) meets the requirements of EN 54-23 for the following category (light pattern details): • High power setting - (Category C: C-6-16) • Medium power setting - (Category C: C-3-14 and Category O: O-5-14) • Low power setting - (Category C: C-3-10.8 and Category O: O-4-10.8 • Synchronization • Flash rate 2 seconds (0.5Hz) 4. Must be used with the S4-701 base and IP seal plate in order to achieve IP21C	
S4-711-V-VAD-HPR	Analogue Addressable Optical Smoke and Category P Heat Multi-Sensor Detector with Speech, Sounder and Red Visual Alarm (S4-701 Base and S4-700-34K) Notes: 1. Meets the requirements of EN 54-3 at the following sounder tone settings: • High - Continuous 933 Hz • Alternate - High 933 Hz for 0.25 secs / Low 700 Hz for 0.25 secs 2. Meets the requirements of EN 54-5 and EN 54-7 at the following settings except where otherwise stated: • State 0 - Medium optical / Category A1 heat • State 2 - Low sensitivity / Category A1 heat* • State 3 - High sensitivity / Category A1 heat • State 4 - Medium optical (no spike) / Category A1 heat • State 5 - Medium optical / Category B heat • State 6 - Low sensitivity / Category BS heat* • State 7 - Medium optical / Category A2S heat • State 8 - Delayed medium optical / Category A1 heat • State 11 - Low sensitivity / Category B heat* • State 12 - Off / Category A1 heat* *Does not meet the requirements of EN 54-7 2. The ceiling mounted Visual Alarm Device (VAD) meets the requirements of EN 54-23 for the following category (light pattern details): • High power setting - (Category C: C-3-14 and Category O: O-4.5-14) • Medium power setting - (Category C: C-3-13 and Category O: O-4-13) • Low power setting - (Category C: C-3-10) • Synchronization • Flash rate 2 seconds (0.5Hz) 4. Must be used with the S4-701 base and IP seal plate in order to achieve IP21C	042bu/06
S4-711-V-VAD-LPW	Analogue Addressable Dual Optical Smoke and Category P Heat Multi-Sensor Detector with Speech, Sounder and White Visual Alarm (S4-701 Base and S4-700-34K) Notes: 1. Meets the requirements of EN 54-3 at the following sounder tone settings: - High - Continuous 933 Hz - Alternate - High 933 Hz for 0.25 secs / Low 700 Hz for 0.25 secs 2. Meets the requirements of EN 54-5 and EN 54-7 at the following settings except where otherwise stated: - State 0 - Medium optical / Category A1 heat - State 2 - Low sensitivity / Category A1 heat* - State 3 - High sensitivity / Category A1 heat - State 4 - Medium optical (no spike) / Category A1 heat - State 5 - Medium optical / Category B heat - State 6 - Low sensitivity / Category BS heat* - State 7 - Medium optical / Category A2S heat - State 8 - Delayed medium optical / Category A1 heat - State 11 - Low sensitivity / Category B heat* - State 12 - Off / Category A1 heat* *Does not meet the requirements of EN 54-7 3. The ceiling mounted Visual Alarm Device (VAD) meets the requirements of EN 54-23 for the following category (light pattern details): - Low power setting - (Category C: C-3-10)	042bu/07

Certificated Products		LPCB Ref. No.
	- Synchronization - Flash rate 2 seconds (0.5Hz) 4. Must be used with the S4-701 base and IP seal plate in order to achieve IP21C	
S4-711-V-VAD-HPW	Analogue Addressable Optical Smoke and Category P Heat Multi-Sensor Detector with Speech, Sounder and White Visual Alarm (S4-701 Base and S4-700-34K) Notes: 1. Meets the requirements of EN 54-3 at the following sounder tone settings: - High- Continuous 933 Hz - Alternate - High 933 Hz for 0.25 secs / Low 700 Hz for 0.25 secs 2. Meets the requirements of EN 54-5 and EN 54-7 at the following settings except where otherwise stated: - State 0 - Medium optical / Category A1 heat - State 2 - Low sensitivity / Category A1 heat* - State 3 - High sensitivity / Category A1 heat - State 4 - Medium optical (no spike) / Category A1 heat - State 5 - Medium optical / Category B heat - State 6 - Low sensitivity / Category BS heat* - State 7 - Medium optical / Category A2S heat - State 8 - Delayed medium optical / Category A1 heat - State 11 - Low sensitivity / Category B heat* - State 12 - Off / Category A1 heat* *Does not meet the requirements of EN 54-7 3. The ceiling mounted Visual Alarm Device (VAD) meets the requirements of EN 54-23 for the following category (light pattern details): - High power setting - (Category C: C-6-16) - Medium power setting - (Category C: C-3-14 and Category O: O-5-14) - Low power setting - (Category C: C-3-10.8 and Category O: O-4-10.8 - Synchronization - Flash rate 2 seconds (0.5Hz) 4. Must be used with the S4-701 base and IP seal plate in order to achieve IP21C	042bu/08
S4-711-V-VAD-LPR	Analogue Addressable Optical Smoke and Category P Heat Multi-Sensor Detector with Speech, Sounder and Red Visual Alarm (S4-701 Base and S4-700-34K) Notes: 1. Meets the requirements of EN 54-3 at the following sounder tone settings: - High - Continuous 933 Hz - Alternate - High 933 Hz for 0.25 secs / Low 700 Hz for 0.25 secs 2. Meets the requirements of EN 54-5 and EN 54-7 at the following settings except where otherwise stated: - State 0 - Medium optical / Category A1 heat - State 2 - Low sensitivity / Category A1 heat* - State 3 - High sensitivity / Category A1 heat - State 4 - Medium optical (no spike) / Category A1 heat - State 5 - Medium optical / Category B heat - State 6 - Low sensitivity / Category BS heat* - State 7 - Medium optical / Category A2S heat - State 8 - Delayed medium optical / Category A1 heat - State 11 - Low sensitivity / Category B heat* - State 12 - Off / Category A1 heat* *Does not meet the requirements of EN 54-7 3. The ceiling mounted Visual Alarm Device (VAD) meets the requirements of EN 54-23 for the following category (light pattern details): - Low power setting - (Category C: C-3-10) - Synchronization - Flash rate 2 seconds (0.5Hz) 4. Must be used with the S4-701 base and IP seal plate in order to achieve IP21C	042bu/09
S4BK-711-V-VAD-HPR	S-Quad Analogue Addressable Optical Smoke and Category P Heat Multi-Sensor Detector with Speech, Sounder and Red Visual Alarm (Black Body Variant) (S4BK-700 Base and S4BK-705 Base) Notes: 1. Meets the requirements of EN 54-3 at the following sounder tone settings: - High - Continuous 933 Hz - Alternate - High 933 Hz for 0.25 secs / Low 700 Hz for 0.25 secs 2. Meets the requirements of EN 54-5 and EN 54-7 at the following settings except where otherwise stated: - State 0 - Medium optical / Category A1 heat - State 2 - Low sensitivity / Category A1 heat* - State 3 - High sensitivity / Category A1 heat - State 4 - Medium optical (no spike) / Category A1 heat	042bu/10

Certificated Products		LPCB Ref. No.
	- State 5 - Medium optical / Category B heat - State 6 - Low sensitivity / Category BS heat* - State 7 - Medium optical / Category A2S heat - State 8 - Delayed medium optical / Category A1 heat - State 11 - Low sensitivity / Category B heat* - State 12 - Off / Category A1 heat* *Does not meet the requirements of EN 54-7 3. The ceiling mounted Visual Alarm Device (VAD) meets the requirements of EN 54-23 for the following category (light pattern details): - High power setting - (Category C: C-3-14 and Category O: O-4.5-14) - Medium power setting - (Category C: C-3-13 and Category O: O-4-13) - Low power setting - (Category C: C-3-10) - Synchronization - Flash rate 2 seconds (0.5Hz) 4. Must be used with the S4-701 base and IP seal plate in order to achieve IP21C	
S4T-711-V-VAD-HPR	S4 Dual Optical Heat Sensor Voice Sounder High Power RED VAD (Self Test Function) (S4-701 Base, S4-700-34K and S4 FLUSH) Notes: 1. Meets the requirements of EN 54-3 at the following sounder tone settings: - High - Continuous 933 Hz - Alternate - High 933 Hz for 0.25 secs / Low 700 Hz for 0.25 secs 2. Meets the requirements of EN 54-5 and EN 54-7 at the following settings except where otherwise stated: - State 0 - Medium optical / Category A1 heat - State 2 - Low sensitivity / Category A1 heat* - State 3 - High sensitivity / Category A1 heat - State 4 - Medium optical (no spike) / Category A1 heat - State 5 - Medium optical / Category B heat - State 6 - Low sensitivity / Category BS heat* - State 7 - Medium optical / Category A2S heat - State 8 - Delayed medium optical / Category A1 heat - State 11 - Low sensitivity / Category B heat* - State 12 - Off / Category A1 heat* *Does not meet the requirements of EN 54-7 3. The ceiling mounted Visual Alarm Device (VAD) meets the requirements of EN 54-23 for the following category (light pattern details): - High power setting - (Category C: C-3-14 and Category O: O-4.5-14) - Medium power setting - (Category C: C-3-13 and Category O: O-4-13) - Low power setting - (Category C: C-3-10) - Synchronization - Flash rate 2 seconds (0.5Hz) 4. Must be used with the S4-701 base and IP seal plate in order to achieve IP21C	042bu/12
S4TB-711-V-VAD-HPR	S4 Dual Optical Heat Sensor Voice Sounder High Power RED VAD Black Body (Self Test Function) (S4BK-700 Base and S4BK-705 Base) Notes: 1. Meets the requirements of EN 54-3 at the following sounder tone settings: - High - Continuous 933 Hz - Alternate - High 933 Hz for 0.25 secs / Low 700 Hz for 0.25 secs 2. Meets the requirements of EN 54-5 and EN 54-7 at the following settings except where otherwise stated: - State 0 - Medium optical / Category A1 heat - State 2 - Low sensitivity / Category A1 heat* - State 3 - High sensitivity / Category A1 heat - State 4 - Medium optical (no spike) / Category A1 heat - State 5 - Medium optical / Category B heat - State 6 - Low sensitivity / Category BS heat* - State 7 - Medium optical / Category A2S heat - State 8 - Delayed medium optical / Category A1 heat - State 11 - Low sensitivity / Category B heat* - State 12 - Off / Category A1 heat* *Does not meet the requirements of EN 54-7 3. The ceiling mounted Visual Alarm Device (VAD) meets the requirements of EN 54-23 for the following category (light pattern details): - High power setting - (Category C: C-3-14 and Category O: O-4.5-14) - Medium power setting - (Category C: C-3-13 and Category O: O-4-13) - Low power setting - (Category C: C-3-10) - Synchronization - Flash rate 2 seconds (0.5Hz) 4. Must be used with the S4BK-700 base and S4BK-705 IP Plate to achieve IP21C	042bu/13
S4M-711-V-VAD-LPR	S4 Dual Optical Heat Sensor Voice Sounder Standard Power Red VAD (S4-701 Base	042bu/14

Certificated Products		LPCB Ref. No.
	and S4-700-34K) Notes: 1. Meets the requirements of EN 54-3 at the following sounder tone settings: - High - Continuous 933 Hz - Alternate - High 933 Hz for 0.25 secs / Low 700 Hz for 0.25 secs 2. Meets the requirements of EN 54-5 and EN 54-7 at the following settings except where otherwise stated: - State 0 - Medium optical / Category A1 heat - State 2 - Low sensitivity / Category A1 heat* - State 3 - High sensitivity / Category A1 heat - State 4 - Medium optical (no spike) / Category A1 heat - State 5 - Medium optical / Category B heat - State 6 - Low sensitivity / Category BS heat* - State 7 - Medium optical / Category A2S heat - State 8 - Delayed medium optical / Category A1 heat - State 11 - Low sensitivity / Category B heat* - State 12 - Off / Category A1 heat* *Does not meet the requirements of EN 54-7 3. The ceiling mounted Visual Alarm Device (VAD) meets the requirements of EN 54-23 for the following category (light pattern details): - Low power setting - (Category C: C-3-10) - Synchronization - Flash rate 2 seconds (0.5Hz) 4. Must be used with the S4-701 base and IP seal plate in order to achieve IP21C	
S4MB-711-V-VAD-HPR	4 Dual Optical Heat Sensor Voice Sounder High Power Red VAD Black Body (S4-701 Base and S4-700-34K) Notes: 1. Meets the requirements of EN 54-3 at the following sounder tone settings: - High - Continuous 933 Hz - Alternate - High 933 Hz for 0.25 secs / Low 700 Hz for 0.25 secs 2. Meets the requirements of EN 54-5 and EN 54-7 at the following settings except where otherwise stated: - State 0 - Medium optical / Category A1 heat - State 2 - Low sensitivity / Category A1 heat* - State 3 - High sensitivity / Category A1 heat - State 4 - Medium optical (no spike) / Category A1 heat - State 5 - Medium optical / Category B heat - State 6 - Low sensitivity / Category BS heat* - State 7 - Medium optical / Category A2S heat - State 8 - Delayed medium optical / Category A1 heat - State 11 - Low sensitivity / Category B heat* - State 12 - Off / Category A1 heat* *Does not meet the requirements of EN 54-7 3. The ceiling mounted Visual Alarm Device (VAD) meets the requirements of EN 54-23 for the following category (light pattern details): - Low power setting - (Category C: C-3-10) - Synchronization - Flash rate 2 seconds (0.5Hz) 4. Must be used with the S4-701 base and IP seal plate in order to achieve IP21C	042bu/16
S4M-711-V-VAD-HPR	S4 Dual Optical Heat Sensor Voice Sounder High Power Red VAD (S4-701 Base and S4-700-34K) Notes: 1. Meets the requirements of EN 54-3 at the following sounder tone settings: - High - Continuous 933 Hz - Alternate - High 933 Hz for 0.25 secs / Low 700 Hz for 0.25 secs 2. Meets the requirements of EN 54-5 and EN 54-7 at the following settings except where otherwise stated: - State 0 - Medium optical / Category A1 heat - State 2 - Low sensitivity / Category A1 heat* - State 3 - High sensitivity / Category A1 heat - State 4 - Medium optical (no spike) / Category A1 heat - State 5 - Medium optical / Category B heat - State 6 - Low sensitivity / Category BS heat* - State 7 - Medium optical / Category A2S heat - State 8 - Delayed medium optical / Category A1 heat - State 11 - Low sensitivity / Category B heat* - State 12 - Off / Category A1 heat* *Does not meet the requirements of EN 54-7 3. The ceiling mounted Visual Alarm Device (VAD) meets the requirements of EN 54-23 for the following category (light pattern details): - Low power setting - (Category C: C-3-10)	042bu15

Certificated Products		LPCB Ref. No.
	- Synchronization - Flash rate 2 seconds (0.5Hz) 4. Must be used with the S4-701 base and IP seal plate in order to achieve IP21C	

Bases:
S4-700 standard base
S4-701 S Quad plate and base
S4-FLUSH semi-flush fixing kit
S4BK-700 standard base (black)
S4BK-705 Black IP21 base covers (pack 5)
S4-700-34K Fusion Adaptor base

A copy of the certificate, confirming the full scope of approval including notes relating to the superscript references in the above table, may be viewed online by clicking on the product name in the associated entry on www.RedBookLive.com

Certificate No: 042bz to EN54-5: 2017 + A1: 2018, EN 54-7: 2018, EN54-17: 2005, EN54-18: 2005

Multi-Sensor/Multi-Criteria Detectors

Certificated Products		LPCB Ref. No.
S4-901	Analogue Addressable Dual Optical Smoke and Category P Heat and CO Multi-Sensor Detector with Short Circuit Isolator (S4-700 Standard Base and S4-700-34K) Notes: 1. Meets the requirements of EN 54-5 and EN 54-7 at the following settings except where otherwise stated: - State 0 - Normal sensitivity / Category A1 heat - State 1 - High sensitivity / Category A1 heat - State 2 - Medium sensitivity / Category A1 heat - State 4 - Normal sensitivity (no spike) / Category A1 heat - State 6 - Low sensitivity / Category A1 heat* - State 7 - Normal sensitivity / Category A2S heat - State 9 - Category A1 heat* - State 11 - Normal sensitivity (no spike) / Category B heat - State 12 - Off / Category A1 heat* *Does not meet the requirements of EN 54-7 2. Carbon Monoxide Detection is not included in the scope of this approval.	042bz/01

Bases:
S4-700 standard base
S4-FLUSH semi-flush fixing kit
S4-700-34K Fusion Adaptor base

A copy of the certificate, confirming the full scope of approval including notes relating to the superscript references in the above table, may be viewed online by clicking on the product name in the associated entry on www.RedBookLive.com

Certificate No: 042bw to EN54-5: 2017 + A1: 2018, EN54-7: 2018, EN54-17: 2005, EN54-18: 2005, EN54-23: 2010

Multi-Sensor/Multi-Criteria Detectors

Certificated Products		LPCB Ref. No.
S4-711-VAD-HPR	Analogue Addressable Dual Optical Smoke and Category P Heat Multi-Sensor Detector with Red Visual Alarm (S4-701 Base and S4-700-34K) Notes: 1. Meets the requirements of EN 54-5 and EN 54-7 at the following settings except where otherwise stated: - State 0 - Medium optical / Category A1 heat - State 2 - Low sensitivity / Category A1 heat* - State 3 - High sensitivity / Category A1 heat - State 4 - Medium optical (no spike) / Category A1 heat - State 5 - Medium optical / Category B heat - State 6 - Low sensitivity / Category BS heat* - State 7 - Medium optical / Category A2S heat - State 8 - Delayed medium optical / Category A1 heat - State 11 - Low sensitivity / Category B heat* - State 12 - Off / Category A1 heat* *Does not meet the requirements of EN 54-7 2. The ceiling mounted Visual Alarm Device (VAD) meets the requirements of EN 54-23 for the following category (light pattern details): - High power setting - (Category C: C-3-14 and Category O: O-4.5-14)	042bw/01

Certificated Products		LPCB Ref. No.
	- Medium power setting - (Category C: C-3-13 and Category O: O-4-13) - Low power setting - (Category C: C-3-10 and Category O: None) - Synchronization - Flash rate 2 seconds (0.5Hz) 3. Must be used with the S4-701 base and IP seal plate in order to achieve IP21C	
S4-711-VAD-LPW	Analogue Addressable Dual Optical Smoke and Category P Heat Multi-Sensor Detector with White Visual Alarm (S4-701 Base) Notes: 1. Meets the requirements of EN 54-5 and EN 54-7 at the following settings except where otherwise stated: - State 0 - Medium optical / Category A1 heat - State 2 - Low sensitivity / Category A1 heat* - State 3 - High sensitivity / Category A1 heat - State 4 - Medium optical (no spike) / Category A1 heat - State 5 - Medium optical / Category B heat - State 6 - Low sensitivity / Category BS heat* - State 7 - Medium optical / Category A2S heat - State 8 - Delayed medium optical / Category A1 heat - State 11 - Low sensitivity / Category B heat* - State 12 - Off / Category A1 heat* *Does not meet the requirements of EN 54-7 2. The ceiling mounted Visual Alarm Device (VAD) meets the requirements of EN 54-23 for the following category (light pattern details): - Low power setting - (Category C: C-3-10 and Category O: None) - Synchronization - Flash rate 2 seconds (0.5Hz) 3. Must be used with the S4-701 base and IP seal plate in order to achieve IP21C	042bw/02
S4-711-VAD-HPW	Analogue Addressable Dual Optical Smoke and Category P Heat Multi-Sensor Detector with White Visual Alarm (S4-701 Base and S4-700-34K) Notes: 1. Meets the requirements of EN 54-5 and EN 54-7 at the following settings except where otherwise stated: • State 0 - Medium optical / Category A1 heat • State 2 - Low sensitivity / Category A1 heat* • State 3 - High sensitivity / Category A1 heat • State 4 - Medium optical (no spike) / Category A1 heat • State 5 - Medium optical / Category B heat • State 6 - Low sensitivity / Category BS heat* • State 7 - Medium optical / Category A2S heat • State 8 - Delayed medium optical / Category A1 heat • State 11 - Low sensitivity / Category B heat* • State 12 - Off / Category A1 heat* *Does not meet the requirements of EN 54-7 2. The ceiling mounted Visual Alarm Device (VAD) meets the requirements of EN 54-23 for the following category (light pattern details): - High power setting - (Category C: C-6-16 and Category O: None) - Medium power setting - (Category C: C-3-14 and Category O: O-5-14) - Low power setting - (Category C: C-3-10.8 and Category O: O-4-10.8) - Synchronization - Flash rate 2 seconds (0.5Hz) 3. Must be used with the S4-701 base and IP seal plate in order to achieve IP21C	042bw/03
S4M-711-VAD-HPR	S4 Dual Optical Heat Sensor High Power Red VAD (S4-701 Base and S4-700-34K) Notes: 1. Meets the requirements of EN 54-5 and EN 54-7 at the following settings except where otherwise stated: - State 0 - Medium optical / Category A1 heat - State 2 - Low sensitivity / Category A1 heat* - State 3 - High sensitivity / Category A1 heat - State 4 - Medium optical (no spike) / Category A1 heat - State 5 - Medium optical / Category B heat - State 6 - Low sensitivity / Category BS heat* - State 7 - Medium optical / Category A2S heat - State 8 - Delayed medium optical / Category A1 heat - State 11 - Low sensitivity / Category B heat* - State 12 - Off / Category A1 heat* *Does not meet the requirements of EN 54-7 2. The ceiling mounted Visual Alarm Device (VAD) meets the requirements of EN 54-23 for the following category (light pattern details): - High power setting - (Category C: C-3-14 and Category O: O-4.5-14) - Medium power setting - (Category C: C-3-13 and Category O: O-4-13) - Low power setting - (Category C: C-3-10 and Category O: None) - Synchronization	042bw/04

Certificated Products		LPCB Ref. No.
	- Flash rate 2 seconds (0.5Hz) 3. Must be used with the S4-701 base and IP seal plate in order to achieve IP21C	
S4T-711-VAD-HPR	S4 Dual Optical Heat Sensor High Power RED VAD (Self Test Function) (S4-701 Base, S4-700-34K and S4 FLUSH) Notes: 1. Meets the requirements of EN 54-5 and EN 54-7 at the following settings except where otherwise stated: - State 0 - Medium optical / Category A1 heat - State 2 - Low sensitivity / Category A1 heat* - State 3 - High sensitivity / Category A1 heat - State 4 - Medium optical (no spike) / Category A1 heat - State 5 - Medium optical / Category B heat - State 6 - Low sensitivity / Category BS heat* - State 7 - Medium optical / Category A2S heat - State 8 - Delayed medium optical / Category A1 heat - State 11 - Low sensitivity / Category B heat* - State 12 - Off / Category A1 heat* *Does not meet the requirements of EN 54-7 2. The ceiling mounted Visual Alarm Device (VAD) meets the requirements of EN 54-23 for the following category (light pattern details): - High power setting - (Category C: C-3-14 and Category O: O-4.5-14) - Medium power setting - (Category C: C-3-13 and Category O: O-4-13) - Low power setting - (Category C: C-3-10 and Category O: None) - Synchronization - Flash rate 2 seconds (0.5Hz) 3. Must be used with the S4-701 base and IP seal plate in order to achieve IP21C	042bw/05

Bases:
S4-701 S Quad plate and base
S4-FLUSH semi-flush fixing kit
S4-700-34K Fusion Adaptor base

A copy of the certificate, confirming the full scope of approval including notes relating to the superscript references in the above table, may be viewed online by clicking on the product name in the associated entry on www.RedBookLive.com

---

GEZE GmbH

Reinhold-Vöster-Str. 21-29, D-71229 Leonberg, Germany
Tel: +49 (0)7152-203-0 • Fax: +49 (0)7152-203-310
E-mail: info.de@geze.com • Website: www.geze.com

Certificate No: 928d-(cl-10) to EN 54-5: 2017 + A1: 2018

Point Heat Detectors

Certificated Products		LPCB Ref. No.
GC003 D	Conventional non-latching Category P heat detector (GC 150B relay base and GC160 B base) *Note:* *1. Meets the requirements of EN 54-5 for Category A1R and Category B*	928d/02

Bases
GC150 B Non-latching relay base
GC160 B Universal adaptor base
A copy of the certificate, confirming the full scope of approval including notes relating to the superscript references in the above table, may be viewed online by clicking on the product name in the associated entry on www.RedBookLive.com

Certificate No: 928e-(cl-10) to EN 54-7: 2018

Point Smoke Detectors

Certificated Products		LPCB Ref. No.
GC002 D	Conventional non-latching photo smoke detector (GC150 B relay base and GC160 B base)	928e/02

Bases

GC150 B Non-latching relay base
GC160 B Universal adaptor base

A copy of the certificate, confirming the full scope of approval including notes relating to the superscript references in the above table, may be viewed online by clicking on the product name in the associated entry on www.RedBookLive.com

---

Gulf Alarm UK Limited

Office 32, 19-21 Crawford Street, London W1H 1PJ, United Kingdom
E-mail: info@gulfalarm.com • Website: www.gulfalarm.com

Certificate No: 1330a-(cl-9) to EN 54-12: 2015

Commercial Detectors

Certificated Products		**LPCB Ref. No.**
GA7130	Conventional Reflective Beam Detector *Notes:* *1. Meets the requirements of EN 54-12: 2015 at the following sensitivity settings:* *- Level 1: 2.6 dB High sensitivity* *- Level 2: 3.8 dB Medium sensitivity* *- Level 3: 5.8 dB Low sensitivity* *2. Suitable for use at the following separation ranges:* *- Span 1: 8 to 20 meters Short Path (1 x mirror reflector required)* *- Span 2: 20 to 40 meters Short Path (1 x mirror reflector required)* *- Span 3: 40 to 70 meters Normal Path (4 x mirror reflector required)* *- Span 4: 70 to 100 meters Long Path (4 x mirror reflector required)*	1330a/01

Accessories
Mounting Bracket
GA7130-R 1 x Mirror Reflector
GA7130-R 4 x Mirror Reflector

Base
GA7980 Detector Base

A copy of the certificate, confirming the full scope of approval including notes relating to the superscript references in the above table, may be viewed online by clicking on the product name in the associated entry on www.RedBookLive.com

Certificate No: 1330b-(cl-5) to EN 54-7:2018

Certificated Products		**LPCB Ref. No.**
GA7100	Intelligent Smoke Detector (GA7980 base)	1330b/01

Base
GA7980 Detector Base

A copy of the certificate, confirming the full scope of approval including notes relating to the superscript references in the above table, may be viewed online by clicking on the product name in the associated entry on www.RedBookLive.com

Certificate No: 1330c-(cl-5) to EN 54-5: 2017 + A1: 2018

Certificated Products		**LPCB Ref. No.**
GA7110	Intelligent Heat Detector (GA7980 base) *Note:* *1. Meets the requirements of EN 54-5 for Category A1R*	1330c/01

Base
GA7980 – Detector Base

A copy of the certificate, confirming the full scope of approval including notes relating to the superscript references in the above table, may be viewed online by clicking on the product name in the associated entry on www.RedBookLive.com

Gulf Security Technology Co., Ltd.

No 80 Changjiang East Road, QETDZ, Qinhuangdao, Hebei Province 066004, China
Tel: +86 0335 8502434 • Fax: +86 0335 8502532
E-mail: sales@carrier.com • Website: www.gst.com.cn

Sales Enquiries:
Tel: +852 28778566 • Fax: +852 25118699

Tel: +86 (10)64392919 • Fax: +86 (10)64391767

Certificate No: 548c to EN 54-5: 2017 + A1: 2018

Point Heat Detectors

Certificated Products		LPCB Ref. No.
DC-9103E	Conventional Rate of Rise and Fixed Temperature Heat Detector (DB-01 & DB-01D Bases and DP-9907 Unit) Note: 1. Meets the requirements of EN 54-5:2017 & A1: 2018 for Class A1R, A2S & BS	548c/03
DI-9103E	Intelligent Rate of Rise and Fixed Temperature Heat Detector (DB-01 Base) Note: 1. Meets the requirements of EN 54-5:2017 + A1: 2018 for Class A1R, A2S & BS	548c/04

Bases:

DB-01	Standard base
DB-01D	Diode base
DP-9907	Active end of line unit

A copy of the certificate, confirming the full scope of approval including notes relating to the superscript references in the above table, may be viewed online by clicking on the product name in the associated entry on www.RedBookLive.com

Certificate No: 548d to EN 54-7: 2018

Point Smoke Detector

Certificated Products		LPCB Ref. No.
DC-9102E	Conventional Photoelectric Smoke Detector (DB-01 & DB-01D Bases and DP-9907 Unit) *Note:1. Meets the requirements of EN 54-7:2018 at sensitivity level 1 (default) setting only*	548d/03
DI-9102E	Intelligent Photoelectric Smoke Detector (DB-01 Base) *Note:* *1. Meets the requirements of EN 54-7:2018 at sensitivity level 1 (default) setting only*	548d/04

Bases:

DB-01	Standard Base
DB-01D	Diode Base
DP-9907	Active End of Line Unit

A copy of the certificate, confirming the full scope of approval including notes relating to the superscript references in the above table, may be viewed online by clicking on the product name in the associated entry on www.RedBookLive.com

Certificate No: 548k to EN 54-12: 2015

Beam Detectors

Certificated Products		LPCB Ref. No.
I-9105R	Intelligent optical beam detector *Notes:* *1) Meets the requirements of EN 54-12 at the following sensitivity settings:* *Level 1 - 1.61 dB*	548k/01

Certificated Products		LPCB Ref. No.
	Level 2 - 2.31 dB	
DI-9105E	Intelligent Reflective Beam Detector " *1) Meets the requirements of EN 54-12 at the following sensitivity settings:* • *Level 1 - 1.3 dB* • *Level 2 - 1.8 dB (factory default)* • *Level 3 - 2.3 dB* • *Level 4 - 2.8 dB (not EN 54-12: 2015 approved)* *2) Suitable for use at the following separation ranges in each sensitivity level:* • *Span 1: 5 to 10 meters Short Path (1 x mirror reflector required with Non-Reflective Mask)* • *Span 2: 10 to 20 meters Short Path (1 x mirror reflector required)* • *Span 3: 20 to 40 meters Short Path (1 x mirror reflector required)* • *Span 4: 40 to 70 meters Normal Path (4 x mirror reflector required)* • *Span 5: (factory default) 70 to 100 meters Long Path (4 x mirror reflector required)*	548k/02
DC-9105E	Conventional Reflective Beam Detector *Notes:* *1) Meets the requirements of EN 54-12 at the following sensitivity settings:* • *Level 1 - 1.3 dB* • *Level 2 - 1.8 dB (factory default)* • *Level 3 - 2.3 dB* • *Level 4 - 2.8 dB (not EN 54-12: 2015 approved)* *2) Suitable for use at the following separation ranges in each sensitivity level:* • *Span 1: 5 to 10 meters Short Path (1 x mirror reflector required with Non-Reflective Mask)* • *Span 2: 10 to 20 meters Short Path (1 x mirror reflector required)* • *Span 3: 20 to 40 meters Short Path (1 x mirror reflector required)* • *Span 4: 40 to 70 meters Normal Path (4 x mirror reflector required)* • *Span 5: (factory default) 70 to 100 meters Long Path (4 x mirror reflector required)*	548k/03

Accessories
BK-9105R Mounting Bracket
RF-9105R 1 x Mirror Reflector
RF-9105R 4 x Mirror Reflector
NRM-9105 Non-Reflective Mask

A copy of the certificate, confirming the full scope of approval including notes relating to the superscript references in the above table, may be viewed online by clicking on the product name in the associated entry on www.RedBookLive.com

Certificate No: 548q to EN54-5: 2017+ A1:2018, EN54-7: 2018, CEA 4021: 2003

Multi-Sensor/Multi-Criteria Detectors

Certificated Products		LPCB Ref. No.
DI-9101E	Intelligent Combination Heat/Photoelectric Smoke Detector (DB-01 base) *Notes:* *1. Meets the requirements of EN 54-7: 2018 at sensitivity level 1 (default) setting only* *2. Meets the requirements of EN 54-5: 2017 + A1: 2018 for Class A2R*	548q/04
DI-9101E-B	Intelligent Combination Heat / Photoelectric Smoke Detector - Black Plastic (DB-01-B Base) *Notes:* *1. Meets the requirements of EN 54-7: 2018 at sensitivity level 1 (default) setting only* *2. Meets the requirements of EN 54-5: 2017 + A1: 2018 for Class A2R*	548q/04

Bases:
DB-01 Standard base
DB-01D Diode base
DP-9907 Active end of line unit
DB-01-B Standard Base - Black Plastic

A copy of the certificate, confirming the full scope of approval including notes relating to the superscript references in the above table, may be viewed online by clicking on the product name in the associated entry on www.RedBookLive.com

---

Hochiki America Corporation

7051 Village Drive, Buena Park, California 90621, USA
Tel: +1 714 522 2246 • Fax: +1 714 522 2268
E-mail: sales@hochiki.com • Website: www.hochiki.com

Certificate No: 358d to EN 54-10: 2002 + A1: 2005

Flame Detectors

Certificated Products		LPCB Ref. No.
IR3	Conventional IR[3] Flame Detector (IR-AMB) *Note: Meets EN 54-10: 2002 at Class 1 only*	358d/01
IR3-IS	Conventional IR[3] Intrinsically Safe Flame Detector *Note: Meets EN 54-10: 2002 at Class 1 only*	358d/02
IR3-EX	Conventional IR[3] (Exd) Flameproof Flame Detector (IR-AMB) *Note: Meets EN 54-10: 2002 at Class 1 only*	358d/03
IR2-UV	Conventional UV/IR[2] Flame Detector (IR-AMB) *Note: Meets EN 54-10: 2002 at Class 1 only*	358d/04
IR2-UV-EX	Conventional UV/IR[2] (Exd) Flameproof Flame Detector (IR-AMB) *Note: Meets EN 54-10: 2002 at Class 1 only*	358d/05

Ancillaries
IR-AMB Adjustable Mounting Bracket

A copy of the certificate, confirming the full scope of approval including notes relating to the superscript references in the above table, may be viewed online by clicking on the product name in the associated entry on www.RedBookLive.com

Certificate No: 358c to EN 54-7:2018

Smoke Detectors

Certificated Products		LPCB Ref. No.
ALN-EN	Intelligent Analogue Addressable Optical Smoke DetectorYBN-R/3, YBO-R/SCI, YBO-BS & YBO-BSB Bases) *Note:1. Meets the requirements of EN 54-7 in low and high sensitivity settings.*	358c/07
ALN-EN (WHT)	Intelligent Analogue Addressable Optical Smoke Detector (White)YBN-R/3, YBO-R/SCI, YBO-BS & YBO-BSB Bases) *Note:1. Meets the requirements of EN 54-7 in low and high sensitivity settings.*	358c/07
ALN-E(WHT)	Intelligent Analogue Addressable Optical Smoke Detector (White) (YBN-R/3(SCI), YBN-R/3, YBO-R/SCI, YBO-BS, YBO-BSB, YBN/R/2NA) Note: 1. Meets the requirement of EN 54-7 in low and high sensitivity settings.	358c/08

Bases

YBN-R/3	Standard Base
YBO-R/SCI	Positive switching short circuit isolator base
YBO-R/SCI(RED)	Short circuit isolating base
YBO-BS	Sounder base
YBO-BS(WHT)	Sounder base
YBO-BSB	Sounder base with Beacon
YBN-R/6	Standard Base
YBN-R/6SK	Standard base with schottky diode
YBO-R/6R	Relay Base
YBO-R/6RS	Relay Base latching with schottky diode
YBO-R/6RN	Relay base non latching
YBO-R-6PA	Protector alarms base
YBN-R/3(SCI)	Short circuit isolator base

A copy of the certificate, confirming the full scope of approval including notes relating to the superscript references in the above table, may be viewed online by clicking on the product name in the associated entry on www.RedBookLive.com

Hochiki Corporation

246 Tsuruma, Machidia, Tokyo 194-8577, Japan
Tel: +81 3 3444 4111 • Fax: +81 3 3444 4167
E-mail: info@hochiki.co.jp • Website: www.hochiki.co.jp

Certificate No: 117k to EN 54-10: 2002 + A1: 2005

Certificated Products		LPCB Ref. No.
DRD-E	Conventional Class 1 IR Flame Detector (YBN-R/6SK, YBN-R/6, YBO-R/6R, YBO-R/6RN, YBO-R/6PA, YBO-R/6RS)	117k/01

Bases

YBN-R/6SK	Conventional Schottky diode base
YBN-R/6	Conventional standard base
YBO-R/6R	Conventional latching relay base
YBO-R/6RN	Conventional non-latching relay base
YBO-R/6PA	Conventional 2 wire base
YBO-R/6RS	Conventional latching relay base with integral Schottky diode

Hochiki Europe (UK) Limited

Grosvenor Road, Gillingham Business Park, Gillingham, Kent ME8 0SA, United Kingdom
Tel: +44 (0)1634 260133 • Fax: +44 (0)1634 260132
E-mail: info@hochikieurope.com • Website: www.hochikieurope.com

Certificate No: 117g-(cl-3) to EN 54-5:2017 + A1:2018

Certificated Products		LPCB Ref. No.
DCD-1E-IS	Class A1 Conventional Intrinsically Safe Fixed Temperature and Rate of Rise Heat Detector (YBN-R/4IS Base)	117g/01
DFJ-AE3	Class A1S Conventional Fixed Temperature Heat Detector (YCA-RL/3H2M, YBN-R6SK, YBN-R/6, YBO-R/6R, YBO-R/6RS, YBO-R/6RN and YBO-R/6PA Bases)	117g/02
DFJ-AE3(HFP)	Class A1S Conventional Fixed Temperature Heat Detector (YCA-RL/3H2M, YBN-R6SK, YBN-R/6, YBO-R/6R, YBO-R/6RS, YBO-R/6RN and YBO-R/6PA Bases)	117g/02
DFJ-CE3	Class CS Conventional Fixed Temperature Heat Detector (YCA-RL/3H2M, YBN-R6SK, YBN-R/6, YBO-R/6R, YBO-R/6RS, YBO-R/6RN and YBO-R/6PA Bases)	117g/03
DFJ-CE3(HFP)	Class CS Conventional Fixed Temperature Heat Detector (YCA-RL/3H2M, YBN-R6SK, YBN-R/6, YBO-R/6R, YBO-R/6RS, YBO-R/6RN and YBO-R/6PA Bases)	117g/03
DCD-AE3	Class A1R Conventional Rate of Rise Temperature Heat Detector (YCA-RL/3H2M, YBN-R6SK, YBN-R/6, YBO-R/6R, YBO-R/6RS, YBO-R/6RN and YBO-R/6PA Bases)	117g/04
DCD-AE3(HFP)	Class A1R Conventional Rate of Rise Temperature Heat Detector (YCA-RL/3H2M, YBN-R6SK and YBN-R/6, YBO-R/6R, YBO-R/6RS, YBO-R/6RN and YBO-R/6PA Bases)	117g/04
DCD-AE3(WHT)	Class A1R Conventional Rate of Rise Temperature Heat Detector - White (YCA-RL/3H2M, YBN-R6SK and YBN-R/6, YBO-R/6R, YBO-R/6RS, YBO-R/6RN and YBO-R/6PA Bases)	117g/04
DFG-60BLKJ	Class A2 Conventional Fixed Temperature Water Resistant Heat Detector	117g/05
DCD-CE3	Conventional Class CR Rate of Rise High Temperature Heat Detector (YBN-R/6M Base)	117g/06
DCD-CE3(HFP)	Conventional Class CR Rate of Rise High Temperature Heat Detector (YBN-R/6M Base)	117g/06
DCD-CE3(WHT)	Conventional Class CR Rate of Rise High Temperature Heat Detector - White	117g/06

Certificated Products		LPCB Ref. No.
	(YBN-R/6M Base)	
ACB-EW	Weather Proof Intelligent Analogue Addressable Class P Heat Detector (YBN-R/3 base) Note: Classes A1R, A1S, BR, BS, CR and CS when used with ACB-E protocol and classes A1S, BS and CS when used with ATG-E protocol.	117g/10
DFG-60BLJ	Conventional Class A2 Fixed Temperature Water Resistant Heat Detector	117g/12

Base:

YBV-R/4	Addressable detector base
YBV-R/4(WHT)	Addressable detector base (White)
YBV-R/4(HFP)	Addressable detector base (White)
YBN-R/3	Addressable detector base
YBO-BS	Base sounder
YBO-BS(WHT)	Base sounder (White)
YBN-R/3(SCI)	Short circuit isolator base
YBN-R/3(WHT)-SCI	Short circuit isolator base (White)
YBO-BSB2/WL	Base Sounder Beacon (White LED)
YBO-BSB2(WHT)/WL	Base Sounder Beacon (White LED)
YBO-BSB2/RL	Base Sounder Beacon (Red LED)
YBO-BSB2(WHT)/RL	Base Sounder Beacon (Red LED)
YBN-R/3(WHT)	Addressable Standard Mounting Base (White Plastic)
YBN-R/R4IS(WHT)	Conventional Intrinsically Safe Mounting Base (White Plastic)
YBN-R/6(WHT)	Conventional Standard Mounting Base (White Plastic)
YBN-R/6M(WHT)	Conventional Standard Marine Mounting Base (White Plastic)
YBN-R/6SK(WHT)	Conventional Schottky Diode Mounting Base (White Plastic)
YBO-BS(WHT)	Addressable Base Sounder (White Plastic)
YBO-R/6PA(WHT)	Conventional 2 Wire S Mounting Base
YBO-R/6R(WHT)	Conventional Relay Mounting Base Latching (White Plastic)
YBO-R/6RS(WHT)	Conventional Relay Mounting Base Latching with Schottky Diode (White Plastic)
YBO-R/6RN(WHT)	Conventional Relay Mounting Base Non-Latching with Schottky Diode (White Plastic)
YBN-R/3(WHT)-SCI	Addressable Short Circuit Isolating Mounting Base (White Plastic)
YBO-BSB2(BLK)/RL	Addressable Base Sounder Beacon (Red LED) - Black Plastic
YBO-BSB2(BLK)/WL	Addressable Base Sounder Beacon (White LED) - Black Plastic

A copy of the certificate, confirming the full scope of approval including notes relating to the superscript references in the above table, may be viewed online by clicking on the product name in the associated entry on www.RedBookLive.com

Certificate No: 164y to EN 54-5:2017+A1:2018

Certificated Products		LPCB Ref. No.
ATJ-E(WHT)	Intelligent Analogue Addressable Class P Heat Detector (YBN-R/3, YBN-R/3(SCI), YBO-BS, YBO-BSB2/WL, YBO-BSB2(WHT)/WL, YBO-BSB2/RL and YBO-BSB2(WHT)/RL bases) Note: Classes A1R, BR, CR, A1S, BS and CS.	164y/01
ATJ-EN	Intelligent Analogue Addressable Class P Heat Detector (YBN-R/3, YBO-BS, YBO-BSB2/WL, YBO-BSB2(WHT)/WL, YBO-BSB2/RL and YBO-BSB2(WHT)/RL bases) Note: Classes A1R, BR CR, A1S, BS and CS.	164y/02
ATJ-EN(BLK)	Intelligent Analogue Addressable Class P Heat Detector (YBN-R/3, YBO-BS YBO-BSB2/WL, YBO-BSB2(WHT)/WL, YBO-BSB2/RL and YBO-BSB2(WHT)/RL bases) Note: Classes A1R, BR, CR, A1S, BS and CS.	164y/02
ATJ-EN(WHT)	Intelligent Analogue Addressable Class P Heat Detector (YBN-R/3, YBO-BS YBO-BSB2/WL, YBO-BSB2(WHT)/WL, YBO-BSB2/RL and YBO-BSB2(WHT)/RL bases) Note: Classes A1R, BR, CR, A1S, BS and CS.	164y/02

Bases

YBN-R/3	Addressable detector base
YBO-BS	Base sounder
YBN-R/3(SCI)	Short circuit isolator base
YBO-BSB2/WL	Base Sounder Beacon (White LED)
YBO-BSB2(WHT)/WL	Base Sounder Beacon (White LED)
YBO-BSB2/RL	Base Sounder Beacon (Red LED)
YBO-BSB2(WHT)/RL	Base Sounder Beacon (Red LED)
YBN-R/3(BLK)	Addressable detector base (Black)
YBN-R/3(BLK)-SCI	Short circuit isolator base (Black)

YBO-BS(BLK)	Base sounder (Black)
YBO-BSB2(BLK)/RL	Base Sounder Beacon (Black) (Red LED)
YBO-BSB2(BLK)/WL	Base Sounder Beacon (Black) (White LED)
YBV-R/4(BLK)	Standard base

A copy of the certificate, confirming the full scope of approval including notes relating to the superscript references in the above table, may be viewed online by clicking on the product name in the associated entry on www.RedBookLive.com

Certificate No: 164ab to EN 54-5:2017+A1:2018, EN 54-17:2005

Certificated Products		**LPCB Ref. No.**
ATJ-E(WHT)-SCI	Intelligent Analogue Addressable Class P Heat Detector with Short Circuit Isolator Note: Meets the requirements of EN 54-5:2017 for classes A1R, BR, CR, A1S, BS & CS	164ab/01
ATJ-EN(BLK)-SCI	Intelligent Analogue Addressable Class P Heat Detector with Short Circuit Isolator Note: Meets the requirements of EN 54-5:2017 for classes A1R, BR, CR, A1S, BS & CS	164ab/02
ATJ-EN(SCI)	Intelligent Analogue Addressable Class P Heat Detector with Short Circuit Isolator Note: Meets the requirements of EN 54-5:2017 for classes A1R, BR, CR, A1S, BS & CS	164ab/02
ATJ-EN(WHT)-SCI	Intelligent Analogue Addressable Class P Heat Detector with Short Circuit Isolator Note: Meets the requirements of EN 54-5:2017 for classes A1R, BR, CR, A1S, BS & CS	164ab/02

Bases

YBN-R/3	Standard Base
YBN-R/3(WHT)	Standard Base
YBN-R/3(SCI)	Short Circuit Isolator Base
YBN-R/3(WHT)-SCI	Short Circuit Isolator Base
YBO-R/SCI(RED)	Short Circuit Isolator Base
YBO-BS	Base Sounder
YBO-BS(WHT)	Base Sounder (White)
YBO-BSB2/RL	Base Sounder Beacon (Red LED)
YBO-BSB2(WHT)/RL	Base Sounder Beacon (Red LED)
YBO-BSB2/WL	Base Sounder Beacon (White LED)
YBO-BSB2(WHT)/WL	Base Sounder Beacon (White LED)
YBV-R/4	Addressable Detector Base
YBV-R/4(WHT)	Addressable Detector Base (White)
YBO-BS(BLK)	Base Sounder
YBO-BSB2(BLK)/RL	Base Sounder Beacon
YBO-BSB2(BLK)/WL	Base Sounder Beacon
YBN-R/3(BLK)	Addressable detector base (Black)
YBN-R/3(BLK)-SCI	Short circuit isolator base (Black)
YBO-BS(BLK)	Base sounder (Black)
YBO-BSB2(BLK)/RL	Base Sounder Beacon (Black) (Red LED)
YBO-BSB2(BLK)/WL	Base Sounder Beacon (Black) (White LED)
YBV-R/4(BLK)	Standard base

A copy of the certificate, confirming the full scope of approval including notes relating to the superscript references in the above table, may be viewed online by clicking on the product name in the associated entry on www.RedBookLive.com

Certificate No: 358c-(cl-3) to EN 54-7:2018

Certificated Products		**LPCB Ref. No.**
ALN-EN	Intelligent Analogue Addressable Optical Smoke Detector (YBN-R/3(SCI), YBN-R/3, YBO-BS, YBO-BSB2/WL, YBO-BSB2(WHT)/WL, YBO-BSB2/RL and YBO-BSB2(WHT)/RL bases) Note: 1. Meets the requirements of EN 54-7 in low and high sensitivity settings.	358c/07
ALN-EN(WHT)	Intelligent Analogue Addressable Optical Smoke Detector (white) (YBN-R/3(SCI), YBN-R/3, YBO-BS, YBO-BSB2/WL, YBO-BSB2(WHT)/WL, YBO-BSB2/RL and YBO-BSB2(WHT)/RL bases) Note: 1. Meets the requirements of EN 54-7 in low and high sensitivity settings.	358c/07
ALN-E(HFP)	Intelligent Analogue Addressable Optical Smoke Detector (White) (YBN-R/3(SCI), YBN-R/3, YBO-BS, YBO-BSB2/WL, YBO-BSB2(WHT)/WL, YBO-BSB2/RL and YBO-BSB2(WHT)/RL bases) Note: 1. Meets the requirement of EN 54-7 in low and high sensitivity settings.	358c/08
SOC-E3N	Conventional Optical Smoke Detector	358c/09

Certificated Products		LPCB Ref. No.
	(YBN-R/6, YBN-R/6SK, YBO-R/6R, YBO-R/6RS, YBO-R/6RN & YBO-R/6PA bases)	
SOC-E3N(WHT)	Conventional Optical Smoke Detector (White) (YBN-R/6, YBN-R/6SK, YBO-R/6R, YBO-R/6RS, YBO-R/6RN & YBO-R/6PA bases)	358c/09
SOC-E3(HFP)	Conventional Optical Smoke Detector (White) (YBN-R/6, YBN-R/6SK, YBO-R/6R, YBO-R/6RS, YBO-R/6RN & YBO-R/6PA bases)	358c/10
SOC-E3(WHT)	Conventional Optical Smoke Detector (White) (YBN-R/6, YBN-R/6SK, YBO-R/6R, YBO-R/6RS, YBO-R/6RN & YBO-R/6PA bases)	358c/10

Bases

YBN-R/3	Standard base
YBO-BS	Sounder base
YBN-R/6	Standard base
YBN-R/6SK	Standard base with schottky diode
YBO-R/6R	Relay base
YBO-R/6RS	Relay base latching with schottky diode
YBO-R/6RN	Relay base non latching
YBO-R-6PA	Protector alarms base
YBN-R/3(SCI)	Short circuit isolator base
YBO-BSB2/WL	Base Sounder Beacon (White LED)
YBO-BSB2(WHT)/WL	Base Sounder Beacon (White LED)
YBO-BSB2/RL	Base Sounder Beacon (Red LED)
YBO-BSB2(WHT)/RL	Base Sounder Beacon (Red LED)

A copy of the certificate, confirming the full scope of approval including notes relating to the superscript references in the above table, may be viewed online by clicking on the product name in the associated entry on www.RedBookLive.com

Certificate No: 358e-(cl-1) to EN 54-7:2018, EN 54-17:2005

Certificated Products		LPCB Ref. No.
ALN-E(HFP)-SCI	Intelligent Analogue Addressable Optical Smoke Detector with Short Circuit Isolator, White Housing (YBV-R/4, YBN-R/3, YBO-BS, YBO-BSB2/WL, YBO-BSB2(WHT)/WL, YBO-BSB2/RL and YBO-BSB2(WHT)/RL bases) Note: 1. Meets the requirements of EN 54-7 at 2% and 4.5% sensitivity	358e/01
ALN-E(WHT)-SCI	Intelligent Analogue Addressable Optical Smoke Detector with Short Circuit Isolator, White Housing (YBV-R/4, YBN-R/3, YBO-BS, YBO-BSB2/WL, YBO-BSB2(WHT)/WL, YBO-BSB2/RL and YBO-BSB2(WHT)/RL bases) Note: 1. Meets the requirements of EN 54-7 at 2% and 4.5% sensitivity	358e/01
ALN-EN(SCI)	Intelligent Analogue Addressable Optical Smoke Detector with Short Circuit Isolator, Ivory Housing (YBV-R/4, YBN-R/3, YBO-BS, YBO-BSB2/WL, YBO-BSB2(WHT)/WL, YBO-BSB2/RL and YBO-BSB2(WHT)/RL bases) Note: 1. Meets the requirements of EN 54-7 at 2% and 4.5% sensitivity	358e/02
ALN-EN(WHT)-SCI	Intelligent Analogue Addressable Optical Smoke Detector with Short Circuit Isolator, White Housing (YBV-R/4, YBN-R/3, YBO-BS, YBO-BSB2/WL, YBO-BSB2(WHT)/WL, YBO-BSB2/RL and YBO-BSB2(WHT)/RL bases) Note: 1. Meets the requirements of EN 54-7 at 2% and 4.5% sensitivity	358e/02

Bases

YBV-R/4	Addressable detector base
YBN-R/3	Standard base
YBO-BS	Sounder base
YBO-BSB2/WL	Base sounder beacon (White LED)
YBO-BSB2(WHT)/WL	Base sounder beacon (White LED)
YBO-BSB2/RL	Base sounder beacon (Red LED)
YBO-BSB2(WHT)/RL	Base sounder beacon (Red LED)

A copy of the certificate, confirming the full scope of approval including notes relating to the superscript references in the above table, may be viewed online by clicking on the product name in the associated entry on www.RedBookLive.com

Certificate No: 164aa to EN 54-5:2017+A1:2018, EN 54-7:2018, EN 54-17:2005, EN 54-29:2015

Certificated Products		LPCB Ref. No.
ACC-EN(BLK)-SCI	Intelligent Analogue Addressable Multi-criteria Detector with Short Circuit Isolator Notes: Certificated at the following modes: Mode 0 -enhanced smoke detector at 2% and 4.5% sensitivity (Multi) Mode 1 - Optical smoke detector at 2% and 4.5% sensitivity (Smoke only) Mode 2 - Fixed temperature heat detector at Class A1 & C (Heat only)	164aa/01
ACC-EN(SCI)	Intelligent Analogue Addressable Multi-criteria Detector with Short Circuit Isolator Notes: Certificated at the following modes: Mode 0 -enhanced smoke detector at 2% and 4.5% sensitivity (Multi) Mode 1 - Optical smoke detector at 2% and 4.5% sensitivity (Smoke only) Mode 2 - Fixed temperature heat detector at Class A1 & C (Heat only)	164aa/01
ACC-EN(WHT)-SCI	Intelligent Analogue Addressable Multi-criteria Detector with Short Circuit Isolator Notes: Certificated at the following modes: Mode 0 -enhanced smoke detector at 2% and 4.5% sensitivity (Multi) Mode 1 - Optical smoke detector at 2% and 4.5% sensitivity (Smoke only) Mode 2 - Fixed temperature heat detector at Class A1 & C (Heat only)	164aa/01

Bases

YBN-R/3	Standard Base
YBN-R/3(WHT)	Standard Base
YBN-R/3(SCI)	Short Circuit Isolator Base
YBN-R/3(WHT)-SCI	Short Circuit Isolator Base
YBO-R/SCI(RED)	Short Circuit Isolator Base
YBO-BS	Base Sounder
YBO-BS(WHT)	Base Sounder (White)
YBO-BSB2/RL	Base Sounder Beacon (Red LED)
YBO-BSB2(WHT)/RL	Base Sounder Beacon (Red LED)
YBO-BSB2/WL	Base Sounder Beacon (White LED)
YBO-BSB2(WHT)/WL	Base Sounder Beacon (White LED)
YBV-R/4	Addressable Detector Base
YBV-R/4(WHT)	Addressable Detector Base (White)
YBO-BS(BLK)	Base Sounder
YBO-BSB2(BLK)/RL	Base Sounder Beacon
YBO-BSB2(BLK)/WL	Base Sounder Beacon
YBN-R/3(BLK)	Addressable detector base (Black)
YBN-R/3(BLK)-SCI	Short circuit isolator base (Black)
YBO-BS(BLK)	Base sounder (Black)
YBO-BSB2(BLK)/RL	Base Sounder Beacon (Black) (Red LED)
YBO-BSB2(BLK)/WL	Base Sounder Beacon (Black) (White LED)
YBV-R/4(BLK)	Standard base

A copy of the certificate, confirming the full scope of approval including notes relating to the superscript references in the above table, may be viewed online by clicking on the product name in the associated entry on www.RedBookLive.com

Certificate No: 164ac to EN 54-5:2017+A1:2018, EN 54-7:2018, EN 54-29:2015

Certificated Products		LPCB Ref. No.
ACC-EN	Intelligent Analogue Addressable Multi-criteria Detector (YBN-R/3, YBO-BS, YBN-R/3(SCI), YBO-BSB2/WL, YBO-BSB2(WHT)/WL, YBO-BSB2/RL and YBO-BSB2(WHT)/RL bases) Note: Certificated at the following modes: Mode 0 Thermally enhanced smoke detector at 2% and 4.5% sensitivity Mode 1 Optical smoke detector at 2% and 4.5% sensitivity Mode 2 Fixed temperature heat detector at class A1 & C	164ac/01
ACC-EN(BLK)	Intelligent Analogue Addressable Multi-criteria Detector (YBN-R/3, YBO-BS, YBN-R/3(SCI), YBO-BSB2/WL, YBO-BSB2(WHT)/WL, YBO-BSB2/RL, YBO-BSB2(WHT)/RL, YBN-R/3(BLK), YBN-R/3(BLK)-SCI, YBO-BS(BLK), YBO-BSB2(BLK)/RL, YBO-BSB2(BLK)/WL and YBV-R/4(BLK) bases) Note: Certificated at the following modes: Mode 0 Thermally enhanced smoke detector at 2% and 4.5% sensitivity Mode 1 Optical smoke detector at 2% and 4.5% sensitivity Mode 2 Fixed temperature heat detector at class A1 & C	164ac/01
ACC-EN(WHT)	Intelligent Analogue Addressable Multi-criteria Detector (YBN-R/3, YBO-BS, YBN-R/3(SCI), YBO-BSB2/WL, YBO-BSB2(WHT)/WL, YBO-BSB2/RL and YBO-	164ac/01

Certificated Products		LPCB Ref. No.
	BSB2(WHT)/RL bases) Note: Certificated at the following modes: Mode 0 Thermally enhanced smoke detector at 2% and 4.5% sensitivity Mode 1 Optical smoke detector at 2% and 4.5% sensitivity Mode 2 Fixed temperature heat detector at class A1 & C	

Bases

YBN-R/3	Addressable detector base
YBO-BS	Base sounder
YBN-R/3(SCI)	Short circuit isolator base
YBO-BSB2/WL	Base Sounder Beacon (White LED)
YBO-BSB2(WHT)/WL	Base Sounder Beacon (White LED)
YBO-BSB2/RL	Base Sounder Beacon (Red LED)
YBO-BSB2(WHT)/RL	Base Sounder Beacon (Red LED)
YBN-R/3(BLK)	Addressable detector base (Black)
YBN-R/3(BLK)-SCI	Short circuit isolator base (Black)
YBO-BS(BLK)	Base sounder (Black)
YBO-BSB2(BLK)/RL	Base Sounder Beacon (Black) (Red LED)
YBO-BSB2(BLK)/WL	Base Sounder Beacon (Black) (White LED)
YBV-R/4(BLK)	Standard base

A copy of the certificate, confirming the full scope of approval including notes relating to the superscript references in the above table, may be viewed online by clicking on the product name in the associated entry on www.RedBookLive.com

Certificate No: 164z to EN 54-5:2017+A1:2018, EN 54-7:2018, EN 54-17:2005

Certificated Products		LPCB Ref. No.
ACC-E(WHT)-SCI	Intelligent Analogue Addressable Multi-Criteria Detector with Short Circuit Isolator (White Enclosure) Notes: Certificated at the following modes: Mode 0 -enhanced smoke detector at 2% and 4.5% sensitivity (Multi) Mode 1 - Optical smoke detector at 2% and 4.5% sensitivity (Smoke only) Mode 2 - Fixed temperature heat detector at Class A1 & C (Heat only)	164z/01

Bases

YBN-R/3	Standard Base
YBN-R/3(WHT)	Standard Base
YBN-R/3(SCI)	Short Circuit Isolator Base
YBN-R/3(WHT)-SCI	Short Circuit Isolator Base
YBO-R/SCI(RED)	Short Circuit Isolator Base
YBO-BS	Base Sounder
YBO-BS(WHT)	Base Sounder (White)
YBO-BSB2/RL	Base Sounder Beacon (Red LED)
YBO-BSB2(WHT)/RL	Base Sounder Beacon (Red LED)
YBO-BSB2/WL	Base Sounder Beacon (White LED)
YBO-BSB2(WHT)/WL	Base Sounder Beacon (White LED)
YBV-R/4	Addressable Detector Base
YBV-R/4(WHT)	Addressable Detector Base (White)
YBO-BS(BLK)	Base Sounder
YBO-BSB2(BLK)/RL	Base Sounder Beacon
YBO-BSB2(BLK)/WL	Base Sounder Beacon

A copy of the certificate, confirming the full scope of approval including notes relating to the superscript references in the above table, may be viewed online by clicking on the product name in the associated entry on www.RedBookLive.com

All Enquiries to:
Hochiki Europe UK Limited, Grosvenor Road, Gillingham Business Park, Gillingham, Kent ME8 0SA, United Kingdom
Tel: +44 (0) 1634 260131 • Fax: +44 (0) 1634 260132

Manufacturing at (Certificate Nos 117, 117f, 117g, 117h, 117j)
Hochiki Corporation, 141-1 Maehara Ejiri, Kakuda-shi, Miyagi 971-15, Japan
Tel: +81 3 3444 4111 • Fax: +81 3 3444 4167
E-mail: overseas@hochiki.co.jp • Website: www.hochiki.co.jp

Manufacturing at (Certificate Nos 164, 164g, 164m)
Hochiki Europe UK Limited, Grosvenor Road, Gillingham Business Park, Gillingham, Kent ME8 0SA, United Kingdom
Tel: +44 (0) 1634 260131 • Fax: +44 (0) 1634 260132
E-mail: sales @hochikieurope.com • Website: www.hochikieurope.com

Manufacturing at (Certificate Nos 358, 358c)
Hochiki America Corporation, 7051 Village Drive, Buena Park, California 90621, USA
Tel: +1 714 522 2246 • Fax: +1 714 522 2268
E-mail: overseas@hochiki.co.jp • Website: www.hochiki.com

Certificate No: 164g to EN 54-7: 2018

Certificated Products		**LPCB Ref. No.**
SOC-E-IS	Conventional Optical Smoke Detector - Ivory Plastic (YBN-R/4IS)	164g/10
SOC-E-IS(WHT)	Conventional Optical Smoke Detector - White Plastic (YBN-R/4(WHT)-IS)	164g/10

Bases

YBN-R/4C	Conventional mounting base
YBO-BS	Sounder base
YBO-R/6R	Relay base
YBO-R/6RS	Relay base latching with Schottky diode
YBO-R/6RN	Relay base non latching
YBO-R/6PA	Protector alarms base
YBN-R/3	Standard base
YBN-R/6	Standard base
YBN-R/6SK	Standard base with Schottky diode
YBO-BS	Sounder base
YBN-R/3(SCI)	Short circuit isolator base
YBO-BSB2/WL	Base sounder beacon (White LED)
YBO-BSB2(WHT)/WL	Base sounder beacon (White LED)
YBO-BSB2/RL	Base sounder beacon (Red LED)
YBO-BSB2(WHT)/RL	Base sounder beacon (Red LED)
RSM-WDB	Wireless adaptor base
YBV-R/4	Addressable detector base
YBN-R/4(WHT)-IS	Remote indicator base white
YBN-R/4IS	Remote indicator base

A copy of the certificate, confirming the full scope of approval including notes relating to the superscript references in the above table, may be viewed online by clicking on the product name in the associated entry on www.RedBookLive.com

All Enquiries to:
Hochiki Europe UK Limited, Grosvenor Road, Gillingham Business Park, Gillingham, Kent ME8 0SA, United Kingdom
Tel: +44 (0)1634 260131 • Fax: +44 (0)1634 260132

Manufacturing at (Certificate Nos. 117, 117f, 117g, 117h, 117j)
Hochiki Corporation, 141-1 Maehara Ejiri, Kakuda-shi, Miyagi 971-15, Japan
Tel: +81 3 3444 4111 • Fax: +81 3 3444 4167
E-mail: overseas@hochiki.co.jp • Website: www.hochiki.co.jp

Manufacturing at (Certificate Nos. 164, 164g, 164m)
Hochiki Europe (UK) Limited, Grosvenor Road, Gillingham Business Park, Gillingham, Kent ME8 0SA, United Kingdom
Tel: +44 (01634 260131 • Fax: +44 (0)1634 260132
E-mail: sales@hochikieurope.com • Website: www.hochikieurope.com

Manufacturing at (Certificate Nos. 358, 358c)
Hochiki America Corporation, 7051 Village Drive, Buena Park, California 90621, USA
Tel: +1 714 522 2246 • Fax: +1 714 522 2268
E-mail: overseas@hochiki.co.jp • Website: www.hochiki.com

Certificate No: 117p-(cl-1) to EN 54-5:2017 + A1:2018, EN 54-7:2018, EN 54-26:2015, EN 54-29:2015, EN 54-30:2015, EN 54-31:2015, CEA 4021:2003

Certificated Products		LPCB Ref. No.
ACD-E	Intelligent Analogue Addressable Multi-Criteria Detector (Ivory colour) (YBN-R/3, YBN-R/3(WHT), YBN-R/3(SCI), YBN-R/3(WHT)-SCI, YBO-BS, YBO-BS(WHT), YBO-BSB2/WL, YBO-BSB2(WHT)/WL, YBO-BSB2/RL, YBO-BSB2(WHT)/RL bases)	117p/01

Notes:
1. Meets the requirements of EN 54-5, depending on the specific heat mode selected, at Classes A1, A1S, A1R, C, CS, CR
2. Meets the requirements of EN 54-7, depending on the specific smoke mode selected, at Sensitivity Settings 2% and 4.5%

Modes:

9A*	Smoke/Heat/Co Combine (Default Mode)
9B	Co/Heat combine, Heat (RoR)
80*	Smoke/Heat combine
81	Smoke/Heat combine
82*	Smoke
83	Smoke
87	Heat (FT) Heat (RoR) (Fixed Level 1 - Class A1)
88	Heat (FT) Heat (RoR) (Fixed Level 2 - Class A1R)
89	Heat (FT) (Fixed Level 3 - Class A1S)
8A	Heat (FT) Heat (RoR) (Fixed Level 4 - Class C)
8B	Heat (FT) Heat (RoR) (Fixed Level 5 - Class CR)
8C	Heat (FT) (Fixed Level 6 - Class CS)
8D	Smoke, Co, Heat (FT), Heat (RoR), COHb
8E*	Smoke/Heat Combine, COHb
8F*	Smoke, COHb
93	Heat (FT), Heat (RoR), COHb (Fixed Level 1 - Class A1) +COHb
94	Heat (FT), Heat (RoR), COHb (Fixed Level 2 - Class A1R) +COHb
95	Heat (FT), COHb (Fixed Level 3 - Class A1S) +COHb
96	Heat (FT), Heat (RoR), COHb (Fixed Level 4 - Class C) +COHb
97	Heat (FT), Heat (RoR), COHb (Fixed Level 5 - Class CR) +COHb
98	Heat (FT), COHb (Fixed Level 6 - Class CS) +COHb
99*	Smoke/Heat/CO Combine, Smoke, CO/Heat Combine, Heat (FT), Heat (RoR), COHb
9C	COHb

Certificated Products		LPCB Ref. No.
	9D CO FT = Fixed Temperature RoR = Rate of Rise COHb = Carboxyhemoglobin * Reduced false alarm function	
ACD-E(HFP)	Intelligent Analogue Addressable Multi-Criteria Detector (White colour) (YBN-R/3, YBN-R/3(WHT), YBN-R/3(SCI), YBN-R/3(WHT)-SCI, YBO-BS, YBO-BS(WHT), YBO-BSB2/WL, YBO-BSB2(WHT)/WL, YBO-BSB2/RL, YBO-BSB2(WHT)/RL bases) Notes: 1. Meets the requirements of EN 54-5, depending on the specific heat mode selected, at Classes A1, A1S, A1R, C, CS, CR 2. Meets the requirements of EN 54-7, depending on the specific smoke mode selected, at Sensitivity Settings 2% and 4.5% **Modes:** 9A* Smoke/Heat/Co Combine (Default Mode) 9B Co/Heat combine, Heat (RoR) 80* Smoke/Heat combine 81 Smoke/Heat combine 82* Smoke 83 Smoke 87 Heat (FT) Heat (RoR) (Fixed Level 1 - Class A1) 88 Heat (FT) Heat (RoR) (Fixed Level 2 - Class A1R) 89 Heat (FT) (Fixed Level 3 - Class A1S) 8A Heat (FT) Heat (RoR) (Fixed Level 4 - Class C) 8B Heat (FT) Heat (RoR) (Fixed Level 5 - Class CR) 8C Heat (FT) (Fixed Level 6 - Class CS) 8D Smoke, Co, Heat (FT), Heat (RoR), COHb 8E* Smoke/Heat Combine, COHb 8F* Smoke, COHb 93 Heat (FT), Heat (RoR), COHb (Fixed Level 1 - Class A1) +COHb 94 Heat (FT), Heat (RoR), COHb (Fixed Level 2 - Class A1R) +COHb 95 Heat (FT), COHb (Fixed Level 3 - Class A1S) +COHb 96 Heat (FT), Heat (RoR), COHb (Fixed Level 4 - Class C) +COHb 97 Heat (FT), Heat (RoR), COHb (Fixed Level 5 - Class CR) +COHb 98 Heat (FT), COHb (Fixed Level 6 - Class CS) +COHb 99* Smoke/Heat/CO Combine, Smoke, CO/Heat Combine, Heat (FT), Heat (RoR), COHb 9C COHb 9D CO FT = Fixed Temperature RoR = Rate of Rise COHb = Carboxyhemoglobin * Reduced false alarm function	117p/01
ACD-E(WHT)	Intelligent Analogue Addressable Multi-Criteria Detector (White colour) (YBN-R/3, YBN-R/3(WHT), YBN-R/3(SCI), YBN-R/3(WHT)-SCI, YBO-BS, YBO-BS(WHT), YBO-BSB2/WL, YBO-BSB2(WHT)/WL, YBO-BSB2/RL, YBO-BSB2(WHT)/RL bases) Notes: 1. Meets the requirements of EN 54-5, depending on the specific heat mode selected, at Classes A1, A1S, A1R, C, CS, CR 2. Meets the requirements of EN 54-7, depending on the specific smoke mode selected, at Sensitivity Settings 2% and 4.5% **Modes:** 9A* Smoke/Heat/Co Combine (Default Mode) 9B Co/Heat combine, Heat (RoR) 80* Smoke/Heat combine 81 Smoke/Heat combine 82* Smoke 83 Smoke 87 Heat (FT) Heat (RoR) (Fixed Level 1 - Class A1) 88 Heat (FT) Heat (RoR) (Fixed Level 2 - Class A1R) 89 Heat (FT) (Fixed Level 3 - Class A1S) 8A Heat (FT) Heat (RoR) (Fixed Level 4 - Class C) 8B Heat (FT) Heat (RoR) (Fixed Level 5 - Class CR) 8C Heat (FT) (Fixed Level 6 - Class CS) 8D Smoke, Co, Heat (FT), Heat (RoR), COHb 8E* Smoke/Heat Combine, COHb	117p/01

Certificated Products		LPCB Ref. No.
	8F* Smoke, COHb 93 Heat (FT), Heat (RoR), COHb (Fixed Level 1 - Class A1) +COHb 94 Heat (FT), Heat (RoR), COHb (Fixed Level 2 - Class A1R) +COHb 95 Heat (FT), COHb (Fixed Level 3 - Class A1S) +COHb 96 Heat (FT), Heat (RoR), COHb (Fixed Level 4 - Class C) +COHb 97 Heat (FT), Heat (RoR), COHb (Fixed Level 5 - Class CR) +COHb 98 Heat (FT), COHb (Fixed Level 6 - Class CS) +COHb 99* Smoke/Heat/CO Combine, Smoke, CO/Heat Combine, Heat (FT), Heat (RoR), COHb 9C COHb 9D CO FT = Fixed Temperature RoR = Rate of Rise COHb = Carboxyhemoglobin * Reduced false alarm function	
ACD-EN	Intelligent Analogue Addressable Multi-Criteria Detector (Ivory colour) (YBN-R/3, YBN-R/3(WHT), YBN-R/3(SCI), YBN-R/3(WHT)-SCI, YBO-BS, YBO-BS(WHT), YBO-BSB2/WL, YBO-BSB2(WHT)/WL, YBO-BSB2/RL, YBO-BSB2(WHT)/RL bases) Notes: 1. Meets the requirements of EN 54-5, depending on the specific heat mode selected, at Classes A1, A1S, A1R, C, CS, CR 2. Meets the requirements of EN 54-7, depending on the specific smoke mode selected, at Sensitivity Settings 2% and 4.5% **Modes:** 9A* Smoke/Heat/Co Combine (Default Mode) 9B Co/Heat combine, Heat (RoR) 80* Smoke/Heat combine 81 Smoke/Heat combine 82* Smoke 83 Smoke 87 Heat (FT) Heat (RoR) (Fixed Level 1 - Class A1) 88 Heat (FT) Heat (RoR) (Fixed Level 2 - Class A1R) 89 Heat (FT) (Fixed Level 3 - Class A1S) 8A Heat (FT) Heat (RoR) (Fixed Level 4 - Class C) 8B Heat (FT) Heat (RoR) (Fixed Level 5 - Class CR) 8C Heat (FT) (Fixed Level 6 - Class CS) 8D Smoke, Co, Heat (FT), Heat (RoR), COHb 8E* Smoke/Heat Combine, COHb 8F* Smoke, COHb 93 Heat (FT), Heat (RoR), COHb (Fixed Level 1 - Class A1) +COHb 94 Heat (FT), Heat (RoR), COHb (Fixed Level 2 - Class A1R) +COHb 95 Heat (FT), COHb (Fixed Level 3 - Class A1S) +COHb 96 Heat (FT), Heat (RoR), COHb (Fixed Level 4 - Class C) +COHb 97 Heat (FT), Heat (RoR), COHb (Fixed Level 5 - Class CR) +COHb 98 Heat (FT), COHb (Fixed Level 6 - Class CS) +COHb 99* Smoke/Heat/CO Combine, Smoke, CO/Heat Combine, Heat (FT), Heat (RoR), COHb 9C COHb 9D CO FT = Fixed Temperature RoR = Rate of Rise COHb = Carboxyhemoglobin * Reduced false alarm function	117p/02
ACD-EN(WHT)	Intelligent Analogue Addressable Multi-Criteria Detector (White colour) (YBN-R/3, YBN-R/3(WHT), YBN-R/3(SCI), YBN-R/3(WHT)-SCI, YBO-BS, YBO-BS(WHT), YBO-BSB2/WL, YBO-BSB2(WHT)/WL, YBO-BSB2/RL, YBO-BSB2(WHT)/RL bases) Notes: 1. Meets the requirements of EN 54-5, depending on the specific heat mode selected, at Classes A1, A1S, A1R, C, CS, CR 2. Meets the requirements of EN 54-7, depending on the specific smoke mode selected, at Sensitivity Settings 2% and 4.5% **Modes:** 9A* Smoke/Heat/Co Combine (Default Mode) 9B Co/Heat combine, Heat (RoR) 80* Smoke/Heat combine 81 Smoke/Heat combine	117p/02

Certificated Products **LPCB Ref. No.**

82*	Smoke
83	Smoke
87	Heat (FT) Heat (RoR) (Fixed Level 1 - Class A1)
88	Heat (FT) Heat (RoR) (Fixed Level 2 - Class A1R)
89	Heat (FT) (Fixed Level 3 - Class A1S)
8A	Heat (FT) Heat (RoR) (Fixed Level 4 - Class C)
8B	Heat (FT) Heat (RoR) (Fixed Level 5 - Class CR)
8C	Heat (FT) (Fixed Level 6 - Class CS)
8D	Smoke, Co, Heat (FT), Heat (RoR), COHb
8E*	Smoke/Heat Combine, COHb
8F*	Smoke, COHb
93	Heat (FT), Heat (RoR), COHb (Fixed Level 1 - Class A1) +COHb
94	Heat (FT), Heat (RoR), COHb (Fixed Level 2 - Class A1R) +COHb
95	Heat (FT), COHb (Fixed Level 3 - Class A1S) +COHb
96	Heat (FT), Heat (RoR), COHb (Fixed Level 4 - Class C) +COHb
97	Heat (FT), Heat (RoR), COHb (Fixed Level 5 - Class CR) +COHb
98	Heat (FT), COHb (Fixed Level 6 - Class CS) +COHb
99*	Smoke/Heat/CO Combine, Smoke, CO/Heat Combine, Heat (FT), Heat (RoR), COHb
9C	COHb
9D	CO

FT = Fixed Temperature
RoR = Rate of Rise
COHb = Carboxyhemoglobin
* Reduced false alarm function

Bases:

YBN-R/4IS	Conventional Intrinsically Safe Mounting base
YCA-RL/3H2M	Addressable base
YBN-R/6SK	Schottky diode base
YBN-R/6	Standard base
YBN-R/3	Standard Analogue Mounting Base
YBN-R/3(WHT)	Standard Analogue Mounting Base
YBN-R/3(SCI)	Short circuit isolator base
YBN-R/3(WHT)-SCI	Short circuit isolator base
YBO-RSCI/NS	Negative Switching Short circuit isolating base
YBF-RL/4H3H	2 wire common mounting base
YBF-RL/4H5H	2 wire common mounting base
YBN-R/6M	Standard Base
YBO-BS	Base sounder
YBO-BS(WHT)	Base sounder
YBO-R/6PA	Protector alarms base
YBO-R/6R	Relay base
YBO-R/6RS	Relay latching base with Schottky diode
YBO-R/6RN	Relay base non-latching
YBN-R/3(SCI)	Short circuit Isolating base
YBO-BSB2/WL	Base Sounder Beacon (White LED)
YBO-BSB2(WHT)/WL	Base Sounder Beacon (White LED)
YBO-BSB2/RL	Base Sounder Beacon (Red LED)
YBO-BSB2(WHT)/RL	Base Sounder Beacon (Red LED)
YBO-BSB2(WHT)/WL-HFP	Base Sounder Beacon (White LED)
YBO-BSB2(WHT)/RL-HFP	Base Sounder Beacon (Red LED)
RSM-WDB	Wireless Adaptor Base
YBN-R/3(WHT)	Addressable Standard Mounting Base (White Plastic)
YBN-R/R4IS(WHT)	Conventional Intrinsically Safe Mounting Base (White Plastic)
YBN-R/6(WHT)	Conventional Standard Mounting Base (White Plastic)
YBN-R/6M(WHT)	Conventional Standard Marine Mounting Base (White Plastic)
YBN-R/6SK(WHT)	Conventional Schottky Diode Mounting Base (White Plastic)
YBO-BS(WHT)	Addressable Base Sounder (White Plastic)
YBO-R/6PA(WHT)	Conventional 2 Wire S Mounting Base
YBO-R/6R(WHT)	Conventional Relay Mounting Base Latching (White Plastic)
YBO-R/6RS(WHT)	Conventional Relay Mounting Base Latching with Schottky Diode (White Plastic)
YBO-R/6RN(WHT)	Conventional Relay Mounting Base Non-Latching with Schottky Diode (White Plastic)
YBN-R/3(WHT)-SCI	Addressable Short Circuit Isolating Mounting Base (White Plastic)
YBO-BSB2(BLK)/RL	Addressable Base Sounder Beacon (Red LED) - Black Plastic
YBO-BSB2(BLK)/WL	Addressable Base Sounder Beacon (White LED) - Black Plastic
YBO-R/SCI(RED)	Short Circuit Isolator Base
YBV-R/4	Addressable Detector Base
YBV-R/4(WHT)	Addressable Detector Base (White)
YBO-BS(BLK)	Base Sounder
YBO-BSB2(BLK)/RL	Base Sounder Beacon

YBO-BSB2(BLK)/WL Base Sounder Beacon
A copy of the certificate, confirming the full scope of approval including notes relating to the superscript references in the above table, may be viewed online by clicking on the product name in the associated entry on www.RedBookLive.com

All Enquiries to:
Hochiki Europe UK Limited, Grosvenor Road, Gillingham Business Park, Gillingham, Kent ME8 0SA, United Kingdom
Tel: +44 (0)1634 260131 • Fax: +44 (0)1634 260132

Manufacturing at (Certificate Nos. 117, 117f, 117g, 117h, 117j)
Hochiki Corporation, 141-1 Maehara Ejiri, Kakuda-shi, Miyagi 971-15, Japan
Tel: +81 3 3444 4111 • Fax: +81 3 3444 4167

Certificate No: 164w to EN 54-5:2017 + A1:2018, EN 54-7:2018, CEA 4021:2003

Certificated Products		**LPCB Ref. No.**
ACC-E(HFP)	Intelligent Analogue Addressable Multi-criteria Detector (YBN-R/3, YBO-BS, YBN-R/3(SCI), YBO-BSB2(WHT)/WL-HFP and YBO-BSB2(WHT)/RL-HFP bases) Note: Certificated at the following modes: Mode 0 - Thermally enhanced smoke detector at 2% and 4.5% sensitivity Mode 1 - Optical smoke detector at 2% and 4.5% sensitivity Mode 2 - Fixed temperature heat detector at class A1 & C	164w/01
ACC-E(WHT)	Intelligent Analogue Addressable Multi-criteria Detector (YBN-R/3, YBO-BS, YBN-R/3(SCI) YBO-BSB2/WL, YBO-BSB2(WHT)/WL, YBO-BSB2/RL and YBO-BSB2(WHT)/RL bases) Note: Certificated at the following modes: Mode 0 - Thermally enhanced smoke detector at 2% and 4.5% sensitivity Mode 1 - Optical smoke detector at 2% and 4.5% sensitivity Mode 2 - Fixed temperature heat detector at class A1 & C	164w/01

Bases:

YBN-R/3	Standard base
YBN-R/2NA	Base
YBN-R/4IS base	Intrinsically safe mounting
YCA-RL/3H2	Addressable base
YCA-RL/5H2	Master addressable base
AMU-B2	Addressable base
AMU-MB	Master addressable base
YBC-RL/4H5	Base
YBF-RL/3J	Slave base
YBF-RL/4H5	Base
YBK-RL/4H1A	Base
YBK-RL/4H2	Base
YCA-RL/3H2M	Addressable base
YBN-R/6SK	Schottky diode base
YBN-R/6	Standard base
YBN-R/4	Base
YBN-R/6M	Standard base
YBO-BS	Base Sounder
YBO-BS(WHT)	Base sounder (White)
YBO-R/5	Base
YBN-R/4M	Base
YBO-R/5M	Base
YBO-R/6R	Relay base
YBO-R/6RS	Relay base latching with schottky diode
YBO-R/6RN	Relay base non latching
YBO-R/6PA	Protector alarms base
YBO-RSCI/NS	Negative Switching Short circuit isolating base
YBF-RL/4H3H	2 wire mounting base
YBF-RL/4H5H	2 wire mounting base
RSM-WDB	Wireless Adaptor Base
YBN-R/3(SCI)	Short circuit isolator base

YBN-R/3(WHT)-SCI	Short circuit isolator base (White)
YBO-BSB2/WL	Base Sounder Beacon (White LED)
YBO-BSB2(WHT)/WL	Base Sounder Beacon (White LED)
YBO-BSB2/RL	Base Sounder Beacon (Red LED)
YBO-BSB2(WHT)/RL	Base Sounder Beacon (Red LED)
YBO-BSB2(WHT)/WL-HFP	Base Sounder Beacon (White LED)
YBO-BSB2(WHT)/RL-HFP	Base Sounder Beacon (Red LED)
YBV-R/4	Addressable detector base
YBV-R/4(WHT)	Addressable detector base (White)
YBV-R/4(HFP)	Addressable detector base (White)
YBN-R/3	Addressable detector base
YBN-R/3(WHT)-SCI	Short circuit isolator base (White)
YBN-R/3(WHT)	Standard Base
YBO-R/SCI(RED)	Short Circuit Isolator Base
YBO-BS(BLK)	Base Sounder
YBO-BSB2(BLK)/RL	Base Sounder Beacon
YBO-BSB2(BLK)/WL	Base Sounder Beacon
YBN-R/3(BLK)	Addressable detector base (Black)
YBN-R/3(BLK)-SCI	Short circuit isolator base (Black)
YBO-BS(BLK)	Base sounder (Black)
YBO-BSB2(BLK)/RL	Base Sounder Beacon (Black) (Red LED)
YBO-BSB2(BLK)/WL	Base Sounder Beacon (Black) (White LED)
YBV-R/4(BLK)	Standard base

[LP] denotes detector/base combination is approved in low power mode also.
A copy of the certificate, confirming the full scope of approval including notes relating to the superscript references in the above table, may be viewed online by clicking on the product name in the associated entry on www.RedBookLive.com

All Enquiries to:
Hochiki Europe UK Limited, Grosvenor Road, Gillingham Business Park, Gillingham, Kent ME8 0SA, United Kingdom
Tel: +44 (0)1634 260131 • Fax: +44 (0)1634 260132

Manufacturing at (Certificate Nos. 117, 117f, 117g, 117h, 117j)
Hochiki Corporation, 141-1 Maehara Ejiri, Kakuda-shi, Miyagi 971-15, Japan
Tel: +81 3 3444 4111 • Fax: +81 3 3444 4167

Certificate No: 117j to EN 54-12:2015

Certificated Products		**LPCB Ref. No.**
SPC-E	Conventional 4 wire optical beam smoke detector *Notes:* *1) Approved at sensitivity setting 25% and 50%*	117j/02
SPC-ET	Conventional 2 wire optical beam smoke detector *Notes:* *1) Approved at sensitivity setting 25% and 50%* *2) Approved for use with SPC-ET2WI interface kit*	117j/03
SPC-ET(HFP)	Conventional 2 wire optical bem smoke detector. *Notes:* *1) Approved at sensitivity setting 25% and 50%* *2) Approved for use with SPC-ET2WI interface kit*	117j/03

All Enquiries to:
Hochiki Europe UK Limited, Grosvenor Road, Gillingham Business Park, Gillingham, Kent ME8 0SA, United Kingdom
Tel: +44 (0) 1634 260131 • Fax: +44 (0) 1634 260132

Manufacturing at (Certificate Nos 164, 164g, 164m)
Hochiki Europe UK Limited, Grosvenor Road, Gillingham Business Park, Gillingham, Kent ME8 0SA, United Kingdom
Tel: +44 (0) 1634 260131 • Fax: +44 (0) 1634 260132
E-mail: sales@hochikieurope.com • Website: www.hochikieurope.com

Certificate No: 164m to EN54-10:2002

Certificated Products		LPCB Ref. No.
IFD-E	Conventional IR [3] Flame detector (IFD-MB) *Note: Meets EN 54-10: 2002 at Class 1 only*	164m/01
IFD-E(IS)	Conventional IR [3] Intrinsically Safe Flame Detector (IFD-MB) *Note: Meets EN 54-10: 2002 at Class 1 only*	164m/02
IFD-E(EXD)	Conventional IR [3] (Exd) Flameproof Flame Detector (IFD-MB) *Note: Meets EN 54-10: 2002 at Class 1 only*	164m/03

A copy of the certificate, confirming the full scope of approval including notes relating to the superscript references in the above table, may be viewed online by clicking on the product name in the associated entry on www.RedBookLive.com

Honeywell Analytics Inc.

Honeywell Analytics Inc., 405 Barclay Boulevard, Lincolnshire, Illinois 60069, USA
Tel: +1 847 955 4040
E-mail: charlene.numrych@honeywell.com

Certificate No: 1175a to EN54-10:2002 + A1: 2005

Certificated Products		LPCB Ref. No.
FS20X	Conventional Class 1 Multi-Spectrum, Multi-Spectral and Multi-Band Infrared and Ultraviolet Fire and Flame Detector (SM4 mount) *Note:* *1. Meets EN 54-10: 2002 at Class 1 for very high, high & medium sensitivities* *Low sensitivity is not LPCB approved*	1175a/01
FS24X-9	Conventional Class 1 Multi-Spectrum and Multi-Spectral Infrared Fire and Flame Detector (SM4 mount) *Note:* *1. Meets EN 54-10: 2002 at Class 1 for very high & high sensitivities*	1175a/02
FS24X Plus	IR Flame Detector (SM4 mount) Note: 1. Meets EN 54-10:2002 at the following: Class 1 for very high and high sensitivities Class 2 for medium sensitivities Class 3 for low sensitivities	1175a/03

SM4 Swivel Mount
A copy of the certificate, confirming the full scope of approval including notes relating to the superscript references in the above table, may be viewed online by clicking on the product name in the associated entry on www.RedBookLive.com

Honeywell Automation (I) Pvt. Ltd
53, 54, 55 Hadapasar Indl. Estate, Hadapsar, Pune-411013, India
Tel: +91 020 66780200 • Fax: +91 020 66780172
E-mail: rahul.dwivedi@honeywell.com • Website: www.honeywell.com

Certificate No: 550b to EN54-5: 2017 + A1: 2018, EN54-7: 2018 and CEA 4021: 2003
Certificate No: 550e to EN54-5: 2000 + A1: 2002, EN54-7: 2000 + A1: 2002 + A2: 2006, EN 54-17: 2005 and CEA 4021: 2003

Multi-criteria Detectors

Certificated Products		LPCB Ref. No.
TC840MES-yy	Analogue addressable photo-thermal multi-criteria detector (B501AP, B501, B524IEFT-1, B524HTR and B524RTE bases) *Notes:* 1) yy = Colour option ~ IV = Ivory, BK = Black, no reference indicates White 2) Certified at the following settings: - Alarm levels 1 to 5 (Multi-criteria): EN 54-5 category A1R, EN 54-7 & CEA 4021: 2003 Alarm level 6 (Heat only mode): EN 54-5 category A1R	550b/05
TC840MEIS-yy	Analogue addressable photo-thermal multi-criteria smoke detector with short circuit isolator (B501AP, B524HTR and B524RTE bases) *Notes:* 1) yy = Colour option ~ IV = Ivory, BK = Black, no reference indicates White 2) Certified at the following settings: - Alarm levels 1 to 5 (Multi-criteria): EN 54-5 category A1R, EN 54-7 & CEA 4021: 2003 Alarm level 6 (Heat only mode): EN 54-5 category A1R	550e/02

Bases:
1450614-007 Standard analogue detector base
B501 standard analogue detector base
B501AP intelligent detector base
B524IEFT-1 analogue short circuit isolator base
B524HTR heater base
B524RTE latching relay base

Certificate No: 550c to EN54-5: 2017 + A1: 2018
Certificate No: 550f to EN54-5: 2017 + A1: 2018 and EN 54-17: 2005

Point Heat Detectors

Certificated Products		LPCB Ref. No.
TC808ES1028-yy	Analogue addressable category A1R rate of rise heat detector (B501AP, B501, B524IEFT-1, B524HTR and B524RTE bases) *Note:* 1) yy = Colour option ~ IV = Ivory, BK = Black, no reference indicates White	550c/06
TC808ES1002-yy	Analogue addressable category A1S fixed temperature heat detector (B501AP, B501, B524IEFT-1, B524HTR and B524RTE bases) *Note:* 1) yy = Colour option ~ IV = Ivory, BK = Black, no reference indicates White	550c/07
TC808EIS1028-yy	Analogue addressable category A1R rate of rise heat detector with short circuit isolator (B501AP, B524HTR and B524RTE bases) *Note:* 1) yy = Colour option ~ IV = Ivory, BK = Black, no reference indicates White	550f/01
TC808EIS1002-yy	Analogue addressable category A1S fixed temperature heat detector with short circuit isolator (B501AP, B524HTR and B524RTE bases) *Note:* 1) yy = Colour option ~ IV = Ivory, BK = Black, no reference indicates White	550f/02

Bases:
14506414-007 Standard analogue detector base
B501 standard analogue detector base
B501AP intelligent detector base
B524IEFT-1 analogue short circuit isolator base
B524HTR heater base
B524RTE latching relay base

Certificate No: 550a to EN54-7: 2018
Certificate No: 550d to EN54-7: 2018 and EN 54-17: 2005

Point Smoke Detectors

Certificated Products		LPCB Ref. No.
TC806ES1012-yy	Analogue addressable optical smoke detector (B501AP, B501, B524IEFT-1, B524HTR and B524RTE bases) *Notes:* 1) yy = Colour option ~ IV = Ivory, BK = Black, no reference indicates White 2) Meets the requirements of EN 54-7 at high and low sensitivity	550a/04
TC806EIS1012-yy	Analogue addressable optical smoke detector with short circuit isolator (B501AP, B524HTR and B524RTE bases) *Notes:* 1) yy = Colour option ~ IV = Ivory, BK = Black, no reference indicates White 2) Meets the requirements of EN 54-7 at high and low sensitivity	550d/01

Bases:
14506414-007 standard analogue detector base
B501 standard analogue detector base
B501AP intelligent detector base
B524IEFT-1 analogue short circuit isolator base
B524HTR heater base
B524RTE latching relay base

Honeywell Control Systems Limited

Honeywell House, Arlington Business Park, Bracknell, Berkshire RG12 1EB, United Kingdom
Tel: +44 (0)1344 655609 • Fax: +44 (0)1344 655474
Website: www.honeywell.com

Certificate No: 199aa-(cl-1) to EN 54-5: 2017 + A1: 2018, EN 54-7: 2018, CEA 4021: 2003 & EN 54-17: 2005

Multi-criteria Detectors

Certificated Products		LPCB Ref. No.
TC840MFEIS	Analogue addressable photo-thermal-IR multi-criteria smoke sensor with short circuit isolator (B501AP, B524HTR & B524RTE bases) *Note: Certified at the following settings: -* Alarm levels 1 to 5 (Multi-criteria): EN 54-5 Category A1R, EN 54-7& CEA 4021: 2003 Alarm level 6 (Heat only mode): EN 54-5 Category A1R	199aa/01
TC840MEIS	Analogue addressable photo-thermal multi-criteria smoke sensor with short circuit isolator (B501AP, B524HTR & B524RTE bases) *Note: Certified at the following settings: -* Alarm levels 1 to 5 (Multi-criteria): EN 54-5 Category A1R, EN 54-7 & CEA 4021: 2003 Alarm level 6 (Heat only mode): EN 54-5 Category A1R	199aa/02

Bases:

B501	standard analogue detector base
B501AP	intelligent detector base
B524IEFT-1	analogue short circuit isolator base
B524HTR	heater base
B524RTE	latching relay base

A copy of the certificate, confirming the full scope of approval including notes relating to the superscript references in the above table, may be viewed online by clicking on the product name in the associated entry on www.RedBookLive.com

Certificate No: 199t-(cl-1) to LPS 1279 - 1.0: 2006, EN 54-5: 2017 + A1: 2018, EN 54-7: 2018 & CEA 4021: 2003

Multi-Sensor/Multi-Criteria Detectors

Certificated Products		LPCB Ref. No.
TC850E1009-yy	Analogue addressable multi-criteria fire detector incorporating CO, photoelectric, thermal	199t/01

Certificated Products		LPCB Ref. No.

and IR sensors (B501, B501DG and B524IEFT-1 bases)
Notes:
1.) yy = Colour option ~ IV = Ivory, BK = Black, no reference indicates White
2.) Certified at the following settings: -

Normal Mode:

Alarm Levels 1 to 5 (Multi-criteria):	EN54-5 Category A1R, EN54-7, LPS1279 and CEA 4021
Alarm Level 6 (Heat Only Mode):	EN54-5 Category A1R

Nuisance Environment Applications:

Application 0,Alarm Level 4	LPS1279 & CEA 4021
Application 1,Alarm Level 5	EN54-5 Category A1R, EN54-7 & CEA 4021
Application 2,Alarm Level 4 or 5	EN54-5 Category A1R, EN54-7 & CEA 4021
Application 3,Alarm Level 5	EN54-5 Category A1R, EN54-7 & CEA 4021
Application 4,Alarm Level 5	EN54-5 Category A1R, EN54-7 & CEA 4021
Application 5,Alarm Level 5	EN54-7 & CEA 4021
Application 6,Alarm Level 5	EN54-5 Category A1R, EN54-7 & CEA 4021
Application 7,Alarm Level 5	EN54-5 Category A1R, LPS1279 & CEA 4021

Bases:

B501	standard analogue detector base
B524IEFT-1	analogue short circuit isolator base

A copy of the certificate, confirming the full scope of approval including notes relating to the superscript references in the above table, may be viewed online by clicking on the product name in the associated entry on www.RedBookLive.com

Certificate No: 199ac-(cl-1) to EN 54-5: 2017 + A1: 2018 & EN 54-17: 2005

Point Heat Detectors

Certificated Products		LPCB Ref. No.
TC808EIS1002	Analogue addressable Category A1S fixed temperature heat sensor with short circuit isolator (B501AP, B524HTR & B524RTE bases)	199ac/01
TC808EIS1051	Analogue addressable Category BS fixed temperature heat sensor with short circuit isolator (B501AP, B524HTR & B524RTE bases)	199ac/02
TC808EIS1028	Analogue addressable Category A1R rate of rise heat sensor with short circuit isolator (B501AP, B524HTR & B524RTE bases)	199ac/03

Bases:
B501 analogue detector base
B501AP intelligent sensor base
B501DG analogue deep base
B524IEFT analogue short circuit isolator base
B524IEFT-1 analogue short circuit isolator base
B524HTR heater base
B524RTE latching relay base
A copy of the certificate, confirming the full scope of approval including notes relating to the superscript references in the above table, may be viewed online by clicking on the product name in the associated entry on www.RedBookLive.com

Certificate No: 199m-(cl-1) to EN 54-7: 2018

Point Smoke Detectors/Sensors

Certificated Products		LPCB Ref. No.
TC842B1007 AE	Intrinsically safe analogue addressable photoelectric smoke detector (B501, B501AP bases) *Note: Meets EN54-7 at High, Normal & Low sensitivity settings*	199m/07
TC806ES1012	Analogue addressable optical smoke sensor (B501AP, B501, B524IEFT-1, B524HTR & B524RTE bases) *Note: Meets the requirements of EN 54-7 at high and low sensitivity*	199m/10

Bases:
B501 Analogue detector base
B501DG Analogue deep base
B501AP Intelligent detector base
B524IEFT Analogue short circuit isolator base
B524IEFT-1 Analogue short circuit isolator base
B524HTR Heater Base
B524RTE Latching relay base

A copy of the certificate, confirming the full scope of approval including notes relating to the superscript references in the above table, may be viewed online by clicking on the product name in the associated entry on www.RedBookLive.com

Certificate No: 199ab-(cl-1) to EN 54-7: 2018 & EN 54-17: 2005

Smoke Detectors

Certificated Products		LPCB Ref. No.
TC806EIS1012	Analogue addressable optical smoke sensor with short circuit isolator (B501AP, B524HTR & B524RTE bases) Note: Meets the requirements of EN 54-7 at high and low sensitivity	199ab/01
TC846E1005	High Sensitivity Point Optical Smoke Detector with Short Circuit Isolator (B501AP) Note: 1. Meets the requirements of EN 54-7 at high sensitivity	199ab/02

Bases:
B501 Analogue detector base
B501DG Analogue deep base
B501AP Intelligent detector base
B524IEFT Analogue short circuit isolator base
B524IEFT-1 Analogue short circuit isolator base
B524HTR Heater Base
B524RTE Latching relay base
A copy of the certificate, confirming the full scope of approval including notes relating to the superscript references in the above table, may be viewed online by clicking on the product name in the associated entry on www.RedBookLive.com

---

Honeywell International (India) Pvt. Ltd.

Sector 36, Pace City - II, Gurgaon - 122 004, Haryana, India
Tel: +91 124 4752700 • Fax: +91 124 4752750
E-mail: amrish.sharma@honeywell.com

Certificate No: 550a to EN 54-7: 2018

Smoke Detectors

Certificated Products		LPCB Ref. No.
2351E	Conventional photoelectric smoke detector (B401, B401DG, B401R, B401SD, B401RSD, B401R1000, B401DGR, B401DGR1000 & B401DGSD bases) *Note: Meets the requirements of EN54-7 at low, medium & high sensitivity settings.*	550a/01
ECO1003	Conventional photoelectric smoke detector (ECO1000B, ECO1000BSD, ECO1000BR, ECO1000BRSD, ECO1000BR680, ECO1000BR680SD, ECO1000BR1000 & ECO1000BR1000SD bases)	550a/02
FL/1003	Conventional photoelectric smoke detector (FL/1000B base)	550a/02
22051E-xx-yy	Analogue addressable optical smoke detector (B501AP, B501, B524IEFT-1, B524HTR and B524RTE bases) *Notes:* 1) xx = (Range 0-99) ~ indicates the communication software protocol 2) yy = Colour option ~ IV = Ivory, BK = Black, no reference indicates White 3) meets the requirements of EN 54-7 at high and low sensitivity	550a/04
2351/EIA	Conventional Photoelectric Smoke Detector (B401, B401DG, B401R, B401SD, B401RSD, B401R1000, B401DGR, B401DGR1000 & B401DGSD Bases) *Note:* *1. Meets the requirements of EN54-7 at low & high sensitivity settings.*	550a/06
2351/EC	Conventional Photoelectric Smoke Detector (B401, B401DG, B401R, B401SD, B401RSD, B401R1000, B401DGR, B401DGR1000 & B401DGSD Bases) *Note:* *1. Meets the requirements of EN54-7 at high sensitivity setting only.*	550a/07

Bases:
B401 standard base
B401DG deep base
B401R standard base with schottky diode
B401SD standard base with schottky diode
B401RSD standard base with 470 ohm resistor and schottky diode
B401R1000 standard base with 1000 ohm resistor
B401DGR deep base with 470 ohm resistor
B401DGR1000 deep base with 1000 ohm resistor
B401DGSD deep base with schottky diode
ECO1000B standard base
ECO1000BSD standard base with schottky diode
ECO1000BR standard base, 470 ohm resistor
ECO1000BRSD standard base, 470 ohm resistor and schottky diode
ECO1000BR680 standard base, 680 ohm resistor
ECO1000BR680SD standard base, 680 ohm resistor and schottky diode
ECO1000BR1000 standard base, 1000 ohm resistor
ECO1000BR1000SD standard base, 1000 ohm resistor and schottky diode
B501 standard analogue detector base
B501DG deep analogue detector base
FL/B401 standard base
FL/1000B standard base
B501AP intelligent detector base
B524IEFT-1 analogue short circuit isolator base
B524HTR heater base
B524RTE latching relay base
BFA1 standard base
A copy of the certificate, confirming the full scope of approval including notes relating to the superscript references in the above table, may be viewed online by clicking on the product name in the associated entry on www.RedBookLive.com

Certificate No: 550b to EN54-5: 2017 + A1: 2018, EN54-7: 2018 & CEA 4021: 2003

Multi Criteria Detectors

Certificated Products		**LPCB Ref. No.**
2351TEM	Conventional optical/thermal detector (B401, B401DG, B401R, B401SD, B401RSD, B401R1000, B401DGR, B401DGR1000 & B401DGSD bases) *Note: Meets the requirements of EN54-5 at Category A1R and EN54-7 at low, medium & high sensitivity settings.*	550b/01
ECO1002	Conventional photo-thermal detector (ECO1000B, ECO1000BSD, ECO1000BR, ECO1000BRSD, ECO1000BR680, ECO1000BR680SD, ECO1000BR1000 & ECO1000BR1000SD bases) *Note: Meets the requirements of EN 54-5 at category A1R at pre-set sensitivity.*	550b/02
FL/1002	Conventional optical/thermal detector base) *Notes: Meets the requirements of EN54-5 at category A1R at pre-set sensitivity*	550b/02
22051TLE-xx-yy	Analogue addressable photo-thermal-IR multi-criteria detector (B501AP, B501, B524IEFT-1, B524HTR and B524RTE bases) *Notes:* 1) xx = (Range 0-99) ~ indicates the communication software protocol 2) yy = Colour option ~ IV = Ivory, BK = Black, no reference indicates White 3) Certified at the following settings: - Alarm levels 1 to 5 (Multi-criteria): EN 54-5 category A1R, EN 54-7 & CEA 4021: 2003 Alarm level 6 (Heat only mode): EN 54-5 category A1R	550b/04
22051TE-xx-yy	Analogue addressable photo-thermal multi-criteria detector (B501AP, B501, B524IEFT-1, B524HTR and B524RTE bases) *Notes:* 1) xx = (Range 0-99) ~ indicates the communication software protocol 2) yy = Colour option ~ IV = Ivory, BK = Black, no reference indicates White 3)Certified at the following settings: - Alarm levels 1 to 5 (Multi-criteria): EN 54-5 category A1R, EN 54-7 & CEA 4021: 2003 Alarm level 6 (Heat only mode): EN 54-5 catgory A1R	550b/05

Bases:
B401 standard base
B401DG deep base
B401R standard base with schottky diode
B401SD standard base with schottky diode
B401RSD standard base with 470 ohm resistor and schottky diode
B401R1000 standard base with 1000 ohm resistor
B401DGR deep base with 470 ohm resistor
B401DGR1000 deep base with 1000 ohm resistor
B401DGSD deep base with schottky diode
ECO1000B standard base
ECO1000BSD standard base with schottky diode
ECO1000BR standard base, 470 ohm resistor
ECO1000BRSD standard base, 470 ohm resistor and schottky diode
ECO1000BR680 standard base, 680 ohm resistor
ECO1000BR680SD standard base, 680 ohm resistor and schottky diode
ECO1000BR1000 standard base, 1000 ohm resistor
ECO1000BR1000SD standard base, 1000 ohm resistor and schottky diode
B501 standard analogue detector base
B501DG deep analogue detector base
B5241EFT-1 analogue short circuit isolator base
FL/B401 standard base
FL/1000B standard base
B501AP intelligent detector base
B524HTR heater base
B524RTE latching relay base
BFA1 standard base
A copy of the certificate, confirming the full scope of approval including notes relating to the superscript references in the above table, may be viewed online by clicking on the product name in the associated entry on www.RedBookLive.com

Certificate No: 550c to EN 54-5: 2017 + A1: 2018

Heat Detectors

Certificated Products		**LPCB Ref. No.**
5351E	Category A1R conventional rate of rise heat detector (B401, B401DG, B401R, B401SD, B401RSD, B401R1000, B401DGR, B401DGR1000 & B401DGSD bases) *Note: Meets the requirements of EN54-5 at category A1R.*	550c/01
4351E	Category BS conventional heat detector (B401, B401DG, B401R, B401SD, B401RSD, B401R1000, B401DGR, B401DGR1000 & B401DGSD bases) *Note: Meets the requirements of EN54-5 at category BS.*	550c/02
ECO1005	Conventional A1R rate-of-rise heat detector (ECO1000B, ECO1000BSD, ECO1000BR, ECO1000BRSD, ECO1000BR680, ECO1000BR680SD, ECO1000BR1000 & ECO1000BR1000SD bases)	550c/03
FL/1005	Conventional Category A1R rate of rise heat detector (FL/1000B base)	550c/03
52051RE-xx-yy	Analogue addressable category A1R rate of rise heat detector (B501AP, B501, B524IEFT-1, B524HTR and B524RTE bases) *Notes:* *1) xx = (Range 0-99) ~ indicates the communication software protocol* 2) yy = Colour option ~ IV = Ivory, BK = Black, no reference indicates White	550c/06
52051E-xx-yy	Analogue addressable category A1S fixed temperature heat detector (B501AP, B501, B524IEFT-1, B524HTR and B524RTE bases) *Notes:* *1) xx = (Range 0-99) ~ indicates the communication software protocol* 2) yy = Colour option ~ IV = Ivory, BK = Black, no reference indicates White	550c/07
5FA51R	Conventional A1R rate of rise heat detector (BFA1 base)	550c/08

Bases:
B401 standard base
B401DG deep base
B401R standard base with schottky diode
B401SD standard base with schottky diode
B401RSD standard base with 470 ohm resistor and schottky diode
B401R1000 standard base with 1000 ohm resistor
B401DGR deep base with 470 ohm resistor
B401DGR1000 deep base with 1000 ohm resistor
B401DGSD deep base with schottky diode
ECO1000B standard base
ECO1000BSD standard base with schottky diode

ECO1000BR standard base, 470 ohm resistor
ECO1000BRSD standard base, 470 ohm resistor and schottky diode
ECO1000BR680 standard base, 680 ohm resistor
ECO1000BR680SD standard base, 680 ohm resistor and schottky diode
ECO1000BR1000 standard base, 1000 ohm resistor
ECO1000BR1000SD standard base, 1000 ohm resistor and schottky diode
FL/B401 standard base
FL/1000B standard base
B501 standard analogue detector base
B501AP intelligent detector base
B524IEFT-1 analogue short circuit isolator base
B524HTR heater base
B524RTE latching relay base
BFA1 Standard Base
A copy of the certificate, confirming the full scope of approval including notes relating to the superscript references in the above table, may be viewed online by clicking on the product name in the associated entry on www.RedBookLive.com

Certificate No: 550d to EN 54-7:2018 & EN 54-17: 2005

Smoke Detectors

Certificated Products		**LPCB Ref. No.**
22051EI-xx-yy	Analogue addressable optical smoke detector with short circuit isolator (B501AP, B524HTR and B524RTE bases) *Notes:* 1) xx = (Range 0-99) ~ indicates the communication software protocol 2) yy = Colour option ~ IV = Ivory, BK = Black, no reference indicates White 3) Meets the requirements of EN 54-7 at high and low sensitivity	550d/01

Bases:
B401 standard base
B401DG deep base
B401R standard base with schottky diode
B401SD standard base with schottky diode
B401RSD standard base with 470 ohm resistor and schottky diode
B401R1000 standard base with 1000 ohm resistor
B401DGR deep base with 470 ohm resistor
B401DGR1000 deep base with 1000 ohm resistor
B401DGSD deep base with schottky diode
ECO1000B standard base
ECO1000BSD standard base with schottky diode
ECO1000BR standard base, 470 ohm resistor
ECO1000BRSD standard base, 470 ohm resistor and schottky diode
ECO1000BR680 standard base, 680 ohm resistor
ECO1000BR680SD standard base, 680 ohm resistor and schottky diode
ECO1000BR1000 standard base, 1000 ohm resistor
ECO1000BR1000SD standard base, 1000 ohm resistor and schottky diode
B501 standard analogue detector base
B501DG deep analogue detector base
FL/B401 standard base
FL/1000B standard base
B501AP intelligent detector base
B524IEFT-1 analogue short circuit isolator base
B524HTR heater base
B524RTE latching relay base
BFA1 standard base
A copy of the certificate, confirming the full scope of approval including notes relating to the superscript references in the above table, may be viewed online by clicking on the product name in the associated entry on www.RedBookLive.com

Certificate No: 550e to EN54-5: 2017 + A1: 2018, EN54-7: 2018, EN 54-17: 2005 & CEA 4021: 2003

Multi-Sensor/Multi-Criteria Detectors

Certificated Products		**LPCB Ref. No.**
22051TLEI-xx-yy	Analogue addressable photo-thermal-IR multi-criteria smoke detector with short circuit isolator (B501AP, B524HTR and B524RTE bases) *Notes:* 1) xx = (Range 0-99) ~ indicates the communication software protocol 2) yy = Colour option ~ IV = Ivory, BK = Black, no reference indicates White 3) Certified at the following settings: - Alarm levels 1 to 5 (Multi-criteria): EN 54-5 category A1R, EN 54-7 & CEA 4021: 2003	550e/01

Certificated Products		LPCB Ref. No.
	Alarm level 6 (Heat only mode): EN 54-5 category A1R	
22051TEI-xx-yy	Analogue addressable photo-thermal multi-criteria smoke detector with short circuit isolator (B501AP, B524HTR and B524RTE bases) *Notes:* 1) xx = (Range 0-99) ~ indicates the communication software protocol 2) yy = Colour option ~ IV = Ivory, BK = Black, no reference indicates White 3) Certified at the following settings: - Alarm levels 1 to 5 (Multi-criteria): EN 54-5 category A1R, EN 54-7 & CEA 4021: 2003 Alarm level 6 (Heat only mode): EN 54-5 category A1R	550e/02

Bases:
B401 standard base
B401DG deep base
B401R standard base with schottky diode
B401SD standard base with schottky diode
B401RSD standard base with 470 ohm resistor and schottky diode
B401R1000 standard base with 1000 ohm resistor
B401DGR deep base with 470 ohm resistor
B401DGR1000 deep base with 1000 ohm resistor
B401DGSD deep base with schottky diode
ECO1000B standard base
ECO1000BSD standard base with schottky diode
ECO1000BR standard base, 470 ohm resistor
ECO1000BRSD standard base, 470 ohm resistor and schottky diode
ECO1000BR680 standard base, 680 ohm resistor
ECO1000BR680SD standard base, 680 ohm resistor and schottky diode
ECO1000BR1000 standard base, 1000 ohm resistor
ECO1000BR1000SD standard base, 1000 ohm resistor and schottky diode
B501 standard analogue detector base
B501DG deep analogue detector base
B5241EFT-1 analogue short circuit isolator base
FL/B401 standard base
FL/1000B standard base
B501AP intelligent detector base
B524HTR heater base
B524RTE latching relay base
BFA1 standard base

A copy of the certificate, confirming the full scope of approval including notes relating to the superscript references in the above table, may be viewed online by clicking on the product name in the associated entry on www.RedBookLive.com

Certificate No: 550f to EN54-5: 2017 + A1: 2018 and EN 54-17: 2005

Heat Detectors

Certificated Products		LPCB Ref. No.
52051REI-xx-yy	Analogue addressable category A1R rate of rise heat detector with short circuit isolator (B501AP, B524HTR and B524RTE bases) *Notes:* 1) xx = (Range 0-99) ~ indicates the communication software protocol 2) yy = Colour option ~ IV = Ivory, BK = Black, no reference indicates White	550f/01
52051EI-xx-yy	Analogue addressable category A1S fixed temperature heat detector with short circuit isolator (B501AP, B524HTR and B524RTE bases) *Notes:* 1) xx = (Range 0-99) ~ indicates the communication software protocol 2) yy = Colour option ~ IV = Ivory, BK = Black, no reference indicates White	550f/02

Bases:
B401 standard base
B401DG deep base
B401R standard base with schottky diode
B401SD standard base with schottky diode
B401RSD standard base with 470 ohm resistor and schottky diode
B401R1000 standard base with 1000 ohm resistor
B401DGR deep base with 470 ohm resistor
B401DGR1000 deep base with 1000 ohm resistor
B401DGSD deep base with schottky diode
ECO1000B standard base
ECO1000BSD standard base with schottky diode
ECO1000BR standard base, 470 ohm resistor

ECO1000BRSD standard base, 470 ohm resistor and schottky diode
ECO1000BR680 standard base, 680 ohm resistor
ECO1000BR680SD standard base, 680 ohm resistor and schottky diode
ECO1000BR1000 standard base, 1000 ohm resistor
ECO1000BR1000SD standard base, 1000 ohm resistor and schottky diode
B501 standard analogue detector base
B501DG deep analogue detector base
B5241EFT-1 analogue short circuit isolator base
FL/B401 standard base
FL/1000B standard base
B501AP intelligent detector base
B524HTR heater base
B524RTE latching relay base
BFA1 standard base
A copy of the certificate, confirming the full scope of approval including notes relating to the superscript references in the above table, may be viewed online by clicking on the product name in the associated entry on www.RedBookLive.com

---

Honeywell Life Safety Systems (Novar Systems Ltd)

140 Waterside Road, Hamilton Industrial Park, Leicester LE5 1TN, United Kingdom
Tel: +44 (0)116 246 2000 • Fax: +44 (0)116 246 2300
E-mail: gent_enquiry@gent.co.uk • Website: www.gent.co.uk

Certificate No: 524c-(cl-1) to EN 54-20:2006

Aspirating Smoke Detectors

Certificated Products	**LPCB Ref. No.**
ALL-SPEC ASD	524c/01

Notes:

1. *Approval of the detector is conditional upon the following requirements:*
   - *For compliance with Clause 5.10 of EN 54-20: 2006, the detector shall be supplied with power from a power supply conforming to the requirements of EN 54-4.*
   - *System design, installation and commissioning shall be performed in accordance with the manufacturer's installation guide, associated manuals and design software TF-SC-1 HW.*
   - *The detector shall be installed with sampling pipe conforming to EN 61386-1, to at least Class 1131.*
2. *Approved detector configurations (Class A, Class B and Class C):*
   - *ALL-SPECx (standard version, no bargraph display, 1 alarm, not available for networking)*
   - *ALL-SPECx-FR (deep freeze version, no bargraph display, 1 alarm, not available for networking)*
   - *ALL-SPECx-SL (silent version, no bargraph display, 1 alarm, not available for networking)*

   X=detector 1 or 2
3. *The approved detector must incorporate one or two of the following detector modules:*
   - *ASD-TP-001-L (standard version, sensitivity of 0.015%/m)*
   - *ASD -TP-001-L-F (deep freeze version, sensitivity of 0.015%/m)*
   - *ASD -TP-01-L (standard version, sensitivity of 0.10%/m)*
   - *ASD -TP-01-L-F (deep freeze version, sensitivity of 0.10%/m)*
   - *ASD -TP-05-L (standard version, sensitivity of 0.50%/m)*
   - *ASD -TP-05-L-F (deep freeze version, sensitivity of 0.50%/m)*

   X=detector 1 or 2

HI-SPEC ASD	524c/03

Notes:

1. *Approval of the detector is conditional upon the following requirements:*
   - *For compliance with Clause 5.10 of EN 54-20: 2006, the detector shall be supplied with power from a power supply conforming to the requirements of EN 54-4.*
   - *System design, installation and commissioning shall be performed in accordance with the manufacturer's installation guide, associated manuals and design software TF-SC-1 HW.*
   - *The detector shall be installed with sampling pipe conforming to EN 61386-1, to at least Class 1131.*
2. *Approved detector configurations (Class A, Class B and Class C):*
   - *HI-SPECx (standard version, bargraph display, 3 alarms, prepared for networking)*

Certificated Products		LPCB Ref. No.
	• *HI-SPECx-FR (deep freeze version, bargraph display, 3 alarms, prepared for networking)* • *HI-SPECx -SL (silent version, bargraph display, 3 alarms, prepared for networking)* 3. *The approved detector must incorporate one or two of the following detector modules:* • *ASD-TT-001-L (standard version, sensitivity of 0.015%/m)* • *ASD -TT-001-L-F (deep freeze version, sensitivity of 0.015%/m)* • *ASD -TT-01-L (standard version, sensitivity of 0.10%/m)* • *ASD -TT-01-L-F (deep freeze version, sensitivity of 0.10%/m)* • *ASD -TT-05-L (standard version, sensitivity of 0.50%/m)* • *ASD -TT-05-L-F (deep freeze version, sensitivity of 0.50%/m)*	
COMPACT ASD	***Notes:*** 1. *Approval of the detector is conditional upon the following requirements:* • *For compliance with Clause 5.10 of EN 54-20: 2006, the detector shall be supplied with power from a power supply conforming to the requirements of EN 54-4.* • *System design, installation and commissioning shall be performed in accordance with the manufacturer's installation guide, associated manuals and design software TF-SC-1 HW.* • *The detector shall be installed with sampling pipe conforming to EN 61386-1, to at least Class 1131.* 2. *Approved detector configurations, sensitivity of 0.50%/m (Class A, Class B and Class C):* • *ASD-CM (version with 2 stages of alarm)* • *ASD-CM2 (version with 2 stages of alarm, ROOM IDENT)*	524c/04

A copy of the certificate, confirming the full scope of approval including notes relating to the superscript references in the above table, may be viewed online by clicking on the product name in the associated entry on www.RedBookLive.com

---

Honeywell Morley-IAS by Honeywell International (I) Pvt. Ltd.

Sector 36, Pace City - II, Gurgaon, Haryana 122004, India
Tel: +91 124 4752700 • Fax: +91 124 4752750
E-mail: amit.puri@honeywell.com • Website: www.honeywell.com

Certificate No: 550m-(cl-1) to EN 54-5: 2017 + A1:2018

Heat Detectors

Certificated Products		LPCB Ref. No.
HM-RHSE	Analogue Addressable Category A1R Rate of Rise (ROR) Heat Detector (MI-B501AP) Note: 1. Communication software protocol (05)	550m/01
HM-RHSE-AP	Analogue Addressable Category A1R Rate of Rise (ROR) Heat Detector AP Protocol (MI-B501AP)	550m/01
HM-FHSE	Analogue Addressable Category A1S Fixed Temperature Heat Detector (MI-B501AP) Note: 1. Communication software protocol (05)	550m/02
HM-FHSE-AP	Analogue Addressable Category A1S Fixed Temperature Heat Detector AP Protocol (MI-B501AP)	550m/02

Bases:
MI-B501AP Intelligent Detector Base

A copy of the certificate, confirming the full scope of approval including notes relating to the superscript references in the above table, may be viewed online by clicking on the product name in the associated entry on www.RedBookLive.com

Certificate No: 550n-(cl-1) to EN 54-7:2018

Smoke Detectors

Certificated Products		LPCB Ref. No.
HM-PSE	Analogue Addressable Optical Smoke Detector (MI-B501AP) Notes:	550n/01

Certificated Products		LPCB Ref. No.
	1. Communication software protocol (05) 2. Meets the requirements of EN 54-7 at high and low sensitivity	
HM-PSE-AP	Analogue Addressable Optical Smoke Detector AP Protocol (MI-B501AP) Notes: 1. Meets the requirements of EN 54-7 at high and low sensitivity	550n/02
HM-PSE-S2	Analogue Addressable Optical Smoke Detector (MI-B501AP) Notes: 1. Communication software protocol (19) 2. Meets the requirements of EN 54-7 at high and low sensitivity	550n/02

Bases:
MI-B501AP Intelligent Detector Base

A copy of the certificate, confirming the full scope of approval including notes relating to the superscript references in the above table, may be viewed online by clicking on the product name in the associated entry on www.RedBookLive.com

Certificate No: 550r-(cl-1) to EN 54-5:2017 + A1:2018, EN 54-7:2018 & CEA 4021:2003

Multi-Sensor/Multi-Criteria Detectors

Certificated Products		LPCB Ref. No.
HM-PTSE	Analogue Addressable Category A1R Photo-Thermal Multi-Criteria Detector (MI-B501AP) Notes: 1. Communication software protocol (05) 2. Certified at the following settings: - Alarm levels 1 to 5 (Multi-Criteria): EN 54-5 Category A1R, EN 54-7 & CEA 4021:2003 - Alarm level 6 (Heat Only Mode): EN 54-5 Category A1R	550r/01
HM-PTSE-AP	Analogue Addressable Category A1R Photo-Thermal Multi-Criteria Detector AP Protocol (MI-B501AP) Notes: 1. Certified at the following settings: • Alarm levels 1 to 5 (Multi-Criteria): EN 54-5 Category A1R, EN 54-7 & CEA 4021:2003 • Alarm level 6 (Heat Only Mode): EN 54-5 Category A1R	550r/01

Bases:
MI-B501AP Intelligent Detector Base

A copy of the certificate, confirming the full scope of approval including notes relating to the superscript references in the above table, may be viewed online by clicking on the product name in the associated entry on www.RedBookLive.com

Certificate No: 550p-(cl-1) to EN 54-5:2017 + A1:2018 & EN 54-17:2005

Heat Detectors

Certificated Products		LPCB Ref. No.
HM-RHSE-I	Analogue Addressable Category A1R Rate of Rise (ROR) Heat Detector with Short Circuit Isolator (MI-B501AP) Note: 1. Communication software protocol (05)	550p/01
HM-RHSE-I-AP	Analogue Addressable Category A1R Rate of Rise (ROR) Heat Detector with Short Circuit Isolator AP Protocol (MI-B501AP)	550p/01
HM-FHSE-I	Analogue Addressable Category A1S Fixed Temperature Heat Detector with Short Circuit Isolator (MI-B501AP) Note: 1. Communication software protocol (05)	550p/02
HM-FHSE-I-AP	Analogue Addressable Category A1S Fixed Temperature Heat Detector with Short Circuit Isolator AP Protocol (MI-B501AP)	550p/02

Bases:
MI-B501AP Intelligent Detector Base
A copy of the certificate, confirming the full scope of approval including notes relating to the superscript references in the above table, may be viewed online by clicking on the product name in the associated entry on www.RedBookLive.com

Certificate No: 550q-(cl-1) to EN 54-7:2018 & EN 54-17:2005

Smoke Detectors

Certificated Products		LPCB Ref. No.
HM-PSE-I	Analogue Addressable Optical Smoke Detector with Short Circuit Isolator (MI-B501AP) Notes: 1. Communication software protocol (05) 2. Meets the requirements of EN 54-7 at high and low sensitivity	550q/01
HM-PSE-I-AP	Analogue Addressable Optical Smoke Detector with Short Circuit Isolator AP Protocol (MI-B501AP) Notes: 1. Meets the requirements of EN 54-7 at high and low sensitivity	550q/02
HM-PSE-S2-I	Analogue Addressable Optical Smoke Detector with Short Circuit Isolator (MI-B501AP) Notes: 1. Communication software protocol (19) 2. Meets the requirements of EN 54-7 at high and low sensitivity	550q/02

Bases:
MI-B501AP Intelligent Detector Base
A copy of the certificate, confirming the full scope of approval including notes relating to the superscript references in the above table, may be viewed online by clicking on the product name in the associated entry on www.RedBookLive.com

Certificate No: 550s-(cl-1) to EN 54-5:2017 + A1:2018, EN 54-7:2018, EN 54-17:2005 & CEA 4021:2003

Multi-Sensor/Multi-Criteria Detectors

Certificated Products		LPCB Ref. No.
HM-PTSE-I	Analogue Addressable Category A1R Photo-Thermal Multi-Criteria Detector with Short Circuit Isolators (MI-B501AP) Notes: 1. Communication software protocol (05) 2. Certified at the following settings: - Alarm levels 1 to 5 (Multi-Criteria): EN 54-5 Category A1R, EN 54-7 & CEA 4021:2003 - Alarm level 6 (Heat Only Mode): EN 54-5 Category A1R	550s/01
HM-PTSE-I-AP	Analogue Addressable Category A1R Photo-Thermal Multi-Criteria Detector with Short Circuit Isolators AP Protocol (MI-B501AP) Notes: 1. Certified at the following settings: • Alarm levels 1 to 5 (Multi-Criteria): EN 54-5 Category A1R, EN 54-7 & CEA 4021:2003 • Alarm level 6 (Heat Only Mode): EN 54-5 Category A1R	550s/01

Bases:
MI-B501AP Intelligent Detector Base
A copy of the certificate, confirming the full scope of approval including notes relating to the superscript references in the above table, may be viewed online by clicking on the product name in the associated entry on www.RedBookLive.com

Certificate No: 550b to EN54-5: 2017 + A1: 2018, EN54-7: 2018 and CEA 4021: 2003
Certificate No: 550e to EN54-5: 2017 + A1: 2018, EN54-7: 2018, EN 54-17: 2005 and CEA 4021: 2003

Multi-criteria Detectors

Certificated Products		LPCB Ref. No.
MI-PTIR-S2-yy	Analogue addressable photo-thermal-IR multi-criteria detector (B501AP, B501, B524IEFT-1, B524HTR and B524RTE bases) *Notes:* 1) yy = Colour option ~ IV = Ivory, BK = Black, no reference indicates White 2) Certified at the following settings: - Alarm levels 1 to 5 (Multi-criteria): EN 54-5 category A1R, EN 54-7 & CEA 4021: 2003 Alarm level 6 (Heat only mode): EN 54-5 category A1R	550b/04
MI-PTSE-S2-yy	Analogue addressable photo-thermal multi-criteria detector (B501AP, B501, B524IEFT-1, B524HTR and B524RTE bases) *Notes:* 1) yy = Colour option ~ IV = Ivory, BK = Black, no reference indicates White	550b/05

Certificated Products		LPCB Ref. No.
	2) Certified at the following settings: - Alarm levels 1 to 5 (Multi-criteria): EN 54-5 category A1R, EN 54-7 & CEA 4021: 2003 Alarm level 6 (Heat only mode): EN 54-5 category A1R	
MI-PTIR-S2I-yy	Analogue addressable photo-thermal-IR multi-criteria smoke detector with short circuit isolator (B501AP, B524HTR and B524RTE bases) *Notes:* 1) yy = Colour option ~ IV = Ivory, BK = Black, no reference indicates White 2) Certified at the following settings: - Alarm levels 1 to 5 (Multi-criteria): EN 54-5 category A1R, EN 54-7 & CEA 4021: 2003 Alarm level 6 (Heat only mode): EN 54-5 category A1R	550e/01
MI-PTSE-S2I-yy	Analogue addressable photo-thermal multi-criteria smoke detector with short circuit isolator (B501AP, B524HTR and B524RTE bases) *Notes:* 1) yy = Colour option ~ IV = Ivory, BK = Black, no reference indicates White 2) Certified at the following settings: - Alarm levels 1 to 5 (Multi-criteria): EN 54-5 category A1R, EN 54-7 & CEA 4021: 2003 Alarm level 6 (Heat only mode): EN 54-5 category A1R	550e/02

Bases:
MI-B501 Standard analogue detector base
B501 standard analogue detector base
B501AP intelligent detector base
B524IEFT-1 analogue short circuit isolator base
B524HTR heater base
B524RTE latching relay base

Certificate No: 550c to EN 54-5: 2017 + A1: 2018
Certificate No: 550f to EN54-5: 2017 + A1: 2018 and EN 54-17: 2005

Point Heat Detectors

Certificated Products		LPCB Ref. No.
MI-RHSE-S2-yy	Analogue addressable category A1R rate of rise heat detector (B501AP, B501, B524IEFT-1, B524HTR and B524RTE bases) *Note:* 1) yy = Colour option ~ IV = Ivory, BK = Black, no reference indicates White	550c/06
MI-FHSE-S2-yy	Analogue addressable category A1S fixed temperature heat detector (B501AP, B501, B524IEFT-1, B524HTR and B524RTE bases) *Note:* 1) yy = Colour option ~ IV = Ivory, BK = Black, no reference indicates White	550c/07
MI-RHSE-S2I-yy	Analogue addressable category A1R rate of rise heat detector with short circuit isolator (B501AP, B524HTR and B524RTE bases) *Note:* 1) yy = Colour option ~ IV = Ivory, BK = Black, no reference indicates White	550f/01
MI-FHSE-S2I-yy	Analogue addressable category A1S fixed temperature heat detector with short circuit isolator (B501AP, B524HTR and B524RTE bases) *Note:* 1) yy = Colour option ~ IV = Ivory, BK = Black, no reference indicates White	550f/02

Bases:
MI-B501 Standard analogue detector base
B501 standard analogue detector base
B501AP intelligent detector base
B524IEFT-1 analogue short circuit isolator base
B524HTR heater base
B524RTE latching relay base

Certificate No: 550a to EN 54-7: 2018
Certificate No: 550d to EN54-7: 2018 and EN 54-17: 2005

Point Smoke Detectors

Certificated Products		LPCB Ref. No.
MI-PSE-S2-yy	Analogue addressable optical smoke detector (B501AP, B501, B524IEFT-1, B524HTR and B524RTE bases) *Notes:* 1) yy = Colour option ~ IV = Ivory, BK = Black, no reference indicates White 2) Meets the requirements of EN 54-7 at high and low sensitivity	550a/04

Certificated Products		LPCB Ref. No.
MI-PSE-S2I-yy	Analogue addressable optical smoke detector with short circuit isolator (B501AP, B524HTR and B524RTE bases) *Notes:* 1) yy = Colour option ~ IV = Ivory, BK = Black, no reference indicates White 2) Meets the requirements of EN 54-7 at high and low sensitivity	550d/01

Bases:
MI-B501 standard analogue detector base
B501 standard analogue detector base
B501AP intelligent detector base
B524IEFT-1 analogue short circuit isolator base
B524HTR heater base
B524RTE latching relay base

Honeywell Products & Solutions Sàrl (Trading as System Sensor Europe)

Zone d'activitiés La Pièce 16, CH-1180, Rolle, Switzerland
Tel: +41 44 943 4424 • Fax: +41 44 943 4399
E-mail: sse.marketing@systemsensor.com • Website: www.systemsensoreurope.com

European Sales:

System Sensor Europe, Life Safety Distribution AG, Wilstrasse 11 (Building U31), CH-8610 Uster, Switzerland
Tel: +41 44 943 4424 • Fax: +41 44 943 4399
E-mail: sse.marketing@systemsensor.com • Website: www.systemsensoreurope.com

Certificate No: 199m-(cl-2) to EN 54-7: 2018

Smoke Detectors

Certificated Products		LPCB Ref. No.
ECO1003	Conventional Photoelectric Smoke Detector (ECO1000B, ECO1000BSD, ECO1000BR, ECO1000BRSD, ECO1000BR680, ECO1000BR680SD, ECO1000BR1000, ECO1000BR1000SD, ECO1000DB, ECO1000DBR and ECO1000DBRSD, ECO1000BREL12L, ECO1000BREL12NL and ECO1000BREL24L bases)	199m/01
2351E	Conventional photoelectric smoke detector (B401, B40DG, B401R, B401SD and B401RSD bases) *Note: Meets the requirements of EN54-7 at low, medium and high sensitivity settings*	199m/03
Vision 2020P	Conventional photoelectric detector (2020B, 2020DB, 2020BSD, 2020DBSD bases)	199m/05
22051EISE	Intrinsically safe analogue addressable photoelectric smoke detector (B501, B501AP, B524HTR and B524RTE bases) *Note: Meets EN54-7 at High, Normal & Low sensitivity settings*	199m/07
22051E	Analogue Addressable Optical Smoke Sensor (B501AP, B524IEFT-1 and B524HTR bases) Note: Meets EN54-7 at High, Normal & Low sensitivity settings	199m/10
ECO1003ABL	Conventional Photoelectric Smoke Detector (ECO1000B, ECO1000BSD, ECO1000BR, ECO1000BRSD, ECO1000BR680, ECO1000BR680SD, ECO1000BR1000, ECO1000BR1000SD, ECO1000DB, ECO1000DBR and ECO1000DBRSD bases)	199m/11

Bases:
2020B standard base
2020DB deep base
2020BSD standard base with schottky diode
2020DBSD deep base with schottky diode
B401 standard base
B401DG deep base
B401R standard base with 470 ohm resistor
B401SD standard base with schottky diode
B401RSD standard base with 470 ohm resistor and schottky diode
B501 standard analogue detector base
B501AP intelligent detector base
B501DG analogue sensor deep base
B524IEFT analogue sensor isolator base

B524IEFT-1 analogue short circuit isolator base
B524HTR heater base
B524RTE latching relay base
ECO1000B standard base.
ECO1000BSD standard base with schottky diode.
ECO1000BR standard base, 470 ohm resistor.
ECO1000BRSD standard base, 470 ohm resistor and schottky diode.
ECO1000BR680 standard base, 680 ohm resistor.
ECO1000BR680SD standard base, 680 ohm resistor and schottky diode.
ECO1000BR1000 standard base, 1000 ohm resistor.
ECO1000BR1000SD standard base, 1000 ohm resistor and schottky diode.
ECO1000DB deep base
ECO1000DBR deep base with 470 ohm resistor
ECO1000DBRSD deep base with 470 ohm resistor and schottky diode
ECO2000B mounting base
ECO1000BREL12L 12Vdc Relay base (latching)
ECO1000BREL12NL 12Vdc Relay base (non-latching)
ECO1000BREL24L 24Vdc Relay base (latching)

A copy of the certificate, confirming the full scope of approval including notes relating to the superscript references in the above table, may be viewed online by clicking on the product name in the associated entry on www.RedBookLive.com

Certificate No: 199n-(cl-2) to EN 54-5: 2017 + A1: 2018

Point Heat Detectors

Certificated Products		**LPCB Ref. No.**
ECO1005	Category A1R Conventional Thermal Detector (ECO1000B, ECO1000BSD, ECO1000BR, ECO1000BRSD,ECO1000BR680, ECO1000BR680SD, ECO1000BR1000, ECO1000BR1000SD, ECO1000DB, ECO1000DBR and ECO1000DBRSD, ECO1000BREL12L, ECO1000BREL12NL and ECO1000BREL24L bases)	199n/01
ECO1005T	Category A2S Conventional Fixed Temperature Detector (ECO1000B, ECO1000BSD, ECO1000BR, ECO1000BRSD, ECO1000BR680, ECO1000BR680SD, ECO1000BR1000, ECO1000BR1000SD, ECO1000DB, ECO1000DBR and ECO1000DBRSD, ECO1000BREL12L, ECO1000BREL12NL and ECO1000BREL24L bases)	199n/06
5351E	Category A1R conventional rate of rise heat detector (B401, B401DG, B401R, B401SD, & B401RSD bases)	199n/07
4351E	Category BS conventional heat detector (B401, B401 DG, B401R, B401SD, & B401RSD bases)	199n/08
ECO1004T	Category BS Conventional High Temperature Heat Detector (ECO1000DB, ECO1000DBR, ECO1000DBRSD, ECO1000B, ECO1000BSD, ECO1000BR, ECO1000BRSD, ECO1000BR680, ECO1000BR680SD, ECO1000BR1000 and ECO1000BR1000SD, ECO1000BREL12L, ECO1000BREL12NL and ECO1000BREL24L bases)	199n/09
Vision 2020F	Category A2S conventional fixed temperature heat detector (2020B, 2020DB, 2020BSD, 2020DBSD bases)	199n/10
Vision 2020HF	Category BS conventional fixed temperature heat detector (2020B, 2020DB, 2020BSD, 2020DBSD bases)	199n/11
Vision 2020R	Category A1R conventional rate of rise heat detector (2020B, 2020DB, 2020BSD, 2020DBSD bases)	199n/12
5351TE	Conventional Category A2S fixed temperature heat detector (B401, B401R, B401RSD, B401SD, B401DG bases)	199n/14
52051RE	Analogue addressable Category A1R rate of rise heat detector (B501AP, B501, B524IEFT-1, B524HTR and B524RTE bases)	199n/15
52051HTE	Analogue Addressable Category BS Fixed Temperature Heat Detector (B501AP, B501, B524IEFT-1, B524HTR and B524RTE bases)	199n/16
52051E	Analogue Addressable Category A1S Fixed Temperature Heat Detector (B501AP, B501, B524IEFT-1, B524HTR and B524RTE bases)	199n/17
ECO1004TABL	Category BS Conventional High Temperature Heat Detector (ECO1000DB, ECO1000DBR, ECO1000DBRSD, ECO1000B, ECO1000BSD, ECO1000BR, ECO1000BRSD, ECO1000BR680, ECO1000BR680SD, ECO1000BR1000 & ECO1000BR1000SD bases)	199n/18
ECO1005ABL	Category A1R Conventional Thermal Detector (ECO1000DB, ECO1000DBR, ECO1000DBRSD, ECO1000B, ECO1000BSD, ECO1000BR, ECO1000BRSD, ECO1000BR680, ECO1000BR680SD, ECO1000BR1000 & ECO1000BR1000SD bases)	199n/19
ECO1005TABL	Category A2S Conventional Fixed Temperature Heat Detector (ECO1000DB, ECO1000DBR, ECO1000DBRSD, ECO1000B, ECO1000BSD, ECO1000BR, ECO1000BRSD, ECO1000BR680, ECO1000BR680SD, ECO1000BR1000 & ECO1000BR1000SD bases)	199n/20

Bases:
2020B standard base
2020DB deep base
2020BSD standard base with schottky diode
2020DBSD deep base with schottky diode
B401 standard base
B401DG deep base
B401R standard base with 470 ohm resistor
B401SD standard base with schottky diode
B401RSD standard base with 470 ohm resistor and schottky diode
B401R1000 standard base with 1000 ohm resistor
B401DGR deep base with 470 ohm resistor
B401DGR1000 deep base with 1000 ohm resistor
B401DGSD deep base with schottky diode
B501 standard analogue detector base
B501AP intelligent detector base
B501DG analogue sensor deep base
B524IEFT analogue sensor isolator base
B524IEFT-1 analogue short circuit isolator base
B524HTR heater base
B524RTE latching relay base
ECO1000B standard base.
ECO1000BSD standard base with schottky diode.
ECO1000BR standard base, 470 ohm resistor.
ECO1000BRSD standard base, 470 ohm resistor and schottky diode.
ECO1000BR680 standard base, 680 ohm resistor.
ECO1000BR680SD standard base, 680 ohm resistor and schottky diode.
ECO1000BR1000 standard base, 1000 ohm resistor.
ECO1000BR1000SD standard base, 1000 ohm resistor and schottky diode.
ECO2000B mounting base.
ECO1000DB deep base.
ECO1000DBR deep base with 470 ohm resistor
ECO1000DBRSD deep base with 470 ohm resistor and schottky diode
ECO1000BREL12L 12Vdc Relay base (latching)
ECO1000BREL12NL 12Vdc Relay base (non-latching)
ECO1000BREL24L 24Vdc Relay base (latching)

A copy of the certificate, confirming the full scope of approval including notes relating to the superscript references in the above table, may be viewed online by clicking on the product name in the associated entry on www.RedBookLive.com

Certificate No: 199p-(cl-2) to EN 54-5: 2017 + A1: 2018, EN 54-7: 2018 & CEA 4021: 2003

Multi-criteria Detectors

Certificated Products		**LPCB Ref. No.**
ECO1002	Conventional Photo-Thermal Detector (ECO1000B, ECO1000BSD, ECO1000BR, ECO1000BRSD, ECO1000BR680, ECO1000BR680SD, ECO1000BR1000, ECO1000BR1000SD, ECO1000DB, ECO1000DBR and ECO1000DBRSD, ECO1000BREL12L, ECO1000BREL12NL and ECO1000BREL24L bases) Note: Meets the requirements of EN 54-5 at Category A1R and EN 54-7 at pre-set sensitivity	199p/01
2351TEM	Conventional optical/thermal detector (B401, B401DG, B401R, B401SD, & B401RSD bases) *Note: Meets the requirements of EN54-5 at Category A1R and EN54-7 at 'High' 'Medium' and 'Low' sensitivity settings.*	199p/03
Vision 2020PT	Conventional photo thermal detector (2020B, 2020DB, 2020BSD and 2020DBSD bases)	199p/04
22051TLE	Analogue addressable photo-thermal-IR multi-criteria sensor (B501AP, B501, B524IEFT-1, B524HTR and B524RTE bases) Note: Certified at the following settings: - Alarm levels 1 to 5 (Multi-criteria): EN 54-5 Category A1R, EN 54-7 & CEA 4021: 2003 Alarm level 6 (Heat only mode): EN 54-5 Category A1R	199p/06
22051TE	Analogue addressable photo-thermal multi-criteria sensor (B501AP, B501, B524IEFT-1, B524HTR and B524RTE bases) Note: Certified at the following settings: - Alarm levels 1 to 5 (Multi-criteria): EN 54-5 Category A1R, EN 54-7 & CEA 4021: 2003 Alarm level 6 (Heat only mode): EN 54-5 Category A1R	199p/07
ECO1002ABL	Conventional Photo-Thermal Detector (ECO1000B, ECO1000BSD, ECO1000BR, ECO1000BRSD, ECO1000BR680, ECO1000BR680SD, ECO1000BR1000, ECO1000BR1000SD, ECO1000DB, ECO1000DBR and ECO1000DBRSD bases) Note : Meets the requirements of EN54:5 at Category A1R and EN54:7 at pre-set	199p/08

Certificated Products		LPCB Ref. No.
	sensitivity	

Bases:
2020B standard base
2020DB deep base
2020BSD standard base with schottky diode
2020DBSD deep base with schottky diode
B401 standard base
B401DG deep base
B401R standard base with 470 ohm resistor
B401SD standard base with schottky diode
B401RSD standard base with 470 ohm resistor and schottky diode
B401R1000 standard base with 1000 ohm resistor
B401DGR deep base with 470 ohm resistor
B401DGR1000 deep base with 1000 ohm resistor
B401DGSD deep base with schottky diode
B501 standard analogue detector base
B501AP intelligent detector base
B501DG analogue sensor deep base
B524IEFT analogue sensor isolator base
B524IEFT-1 analogue short circuit isolator base
B524HTR heater base
B524RTE latching relay base
ECO1000B standard base
ECO1000BSD standard base with schottky diode
ECO1000BR standard base, 470 ohm resistor
ECO1000BRSD standard base, 470 ohm resistor and schottky diode
ECO1000BR680 standard base, 680 ohm resistor
ECO1000BR680SD standard base, 680 ohm resistor and schottky diode
ECO1000BR1000 standard base, 1000 ohm resistor
ECO1000BR1000SD standard base, 1000 ohm resistor and schottky diode
ECO1000DB deep base
ECO1000DBR deep base with 470 ohm resistor
ECO1000DBRSD deep base with 470 ohm resistor and schottky diode
ECO2000B mounting base
ECO1000BREL12L 12Vdc Relay base (latching)
ECO1000BREL12NL 12Vdc Relay base (non-latching)
ECO1000BREL24L 24Vdc Relay base (latching)

A copy of the certificate, confirming the full scope of approval including notes relating to the superscript references in the above table, may be viewed online by clicking on the product name in the associated entry on www.RedBookLive.com

Certificate No: 199ad-(cl-1) to EN 54-20:2006

Aspirating Smoke Detectors

Certificated Products		LPCB Ref. No.
FL0111E-HS	Stand Alone Single Channel Aspirating Detector (F-INF-25 In line filter) *Notes:* *1. For compliance with Clause 5.10 of EN54-20: 2006, all detectors and displays shall be supplied with power from a power supply conforming with the requirements of EN 54-4.* *2. The device is approved for sensitivity Classes A, B and C. The Class of any pipework and hole configuration, detector sensitivity and equipment parameters must be determined using PipeIQ software.* *3. The approval of the detector is conditional upon the following requirements:* • *Design including accessories used, installation and commissioning are performed in accordance with the Advanced Set-up and Control Guide (I56-3888-xxx).*	199ad/01
FL0112E-HS	Stand Alone Single Channel Unit Common Chamber Aspirating Detector (F-INF-25 In line filter) *Notes:* *1. This device has single channel capability with two high sensitivity smoke sensors in a common chamber.* *2. For compliance with Clause 5.10 of EN54-20: 2006, all detectors and displays shall be supplied with power from a power supply conforming with the requirements of EN 54-4.* *3. The device is approved for sensitivity Classes A, B and C. The Class of any pipework and hole configuration, detector sensitivity and equipment parameters*	199ad/02

Certificated Products		LPCB Ref. No.
	must be determined using PipeIQ software. *4. The approval of the detector is conditional upon the following requirements:* • *Design including accessories used, installation and commissioning are performed in accordance with the Advanced Set-up and Control Guide (I56-3888-xxx).*	
FL0122E-HS	Stand Alone Dual Channel Aspirating Detector (F-INF-25 In line filter) *Notes:* *1. For compliance with Clause 5.10 of EN54-20: 2006, all detectors and displays shall be supplied with power from a power supply conforming with the requirements of EN 54-4.* *2. The device is approved for sensitivity Classes A, B and C. The Class of any pipework and hole configuration, detector sensitivity and equipment parameters must be determined using PipeIQ software.* *3. The approval of the detector is conditional upon the following requirements:* • *Design including accessories used, installation and commissioning are performed in accordance with the Advanced Set-up and Control Guide (I56-3888-xxx)*	199ad/03

Accessories
F-INF-25 In line filter

A copy of the certificate, confirming the full scope of approval including notes relating to the superscript references in the above table, may be viewed online by clicking on the product name in the associated entry on www.RedBookLive.com

Certificate No: 199ab-(cl-2) to EN 54-7: 2018 & EN 54-17: 2005

Smoke Detectors

Certificated Products		LPCB Ref. No.
22051EI	Analogue addressable optical smoke sensor with short circuit isolator (B501AP, B524HTR and B524RTE bases) Note: Meets the requirements of EN 54-7 at high and low sensitivity	199ab/01
72051EI	High Sensitivity Point Optical Smoke Detector with Short Circuit Isolator (B501AP) Note: 1. Meets the requirements of EN 54-7 at high sensitivity	199ab/02

Bases:
B501AP intelligent detector base
B524HTR heater base
B524RTE latching relay base

A copy of the certificate, confirming the full scope of approval including notes relating to the superscript references in the above table, may be viewed online by clicking on the product name in the associated entry on www.RedBookLive.com

Certificate No: 199ac-(cl-2) to EN 54-5:2017 + A1:2018 & EN 54-17:2005
EN 54-5: 2017 + A1: 2018 & EN 54-17: 2005

Heat Detectors

Certificated Products		LPCB Ref. No.
52051EI	Analogue Addressable Category A1S Fixed Temperature Heat Sensor with Short Circuit Isolator (B501AP, B524HTR and B524RTE bases)	199ac/01
52051HTEI	Analogue Addressable Category BS Fixed Temperature Heat Sensor with Short Circuit Isolator (B501AP, B524HTR and B524RTE bases)	199ac/02
52051REI	Analogue Addressable Category A1R Rate of Rise Heat Sensor with Short Circuit Isolator (B501AP, B524HTR and B524RTE bases)	199ac/03

Bases:
B501AP intelligent detector base
B524HTR heater base
B524RTE latching relay base
A copy of the certificate, confirming the full scope of approval including notes relating to the superscript references in the above table, may be viewed online by clicking on the product name in the associated entry on www.RedBookLive.com

Certificate No: 199t-(cl-2) to LPS 1279 - 1.0: 2006, EN 54-5: 2017 + A1: 2018, EN 54-7: 2018 & CEA 4021: 2003

Multi-Sensor/Multi-Criteria Detectors

Certificated Products		LPCB Ref. No.
2251CTLE-xx-yy	Analogue addressable multi-criteria fire detector incorporating CO, photoelectric, thermal and IR sensors (B501, B501AP, B501DG, B524IEFT-1, B524HTR and B524RTE bases) Notes: 1.) xx = (Range 0-99) ~ indicates the communication software protocol 2.) yy = Colour option ~ IV = Ivory, BK = Black, no reference indicates White 3.) Certified at the following settings: - Normal Mode: Alarm Levels 1 to 5 (Multi-criteria) EN54-5 Category A1R, EN 54-7, LPS 1279 and CEA 4021 Alarm Level 6 (Heat Only Mode): EN54-5 Category A1R	199t/01

Nuisance Environment Applications:

Application 0,	Alarm Level 4	EN54-7, LPS1279 & CEA 4021
Application 1,	Alarm Level 5	EN54-5 Category A1R, EN54-7 & CEA 4021
Application 2,	Alarm Level 4 or 5	EN54-5 Category A1R, EN54-7 & CEA 4021
Application 3,	Alarm Level 5	EN54-5 Category A1R, EN54-7 & CEA 4021
Application 4,	Alarm Level 5	EN54-5 Category A1R, EN54-7 & CEA 4021
Application 5,	Alarm Level 5	EN54-7 & CEA 4021
Application 6,	Alarm Level 5	EN54-5 Category A1R, EN54-7 & CEA 4021
Application 7,	Alarm Level 5	EN54-5 Category A1R, LPS1279 and CEA 4021

Bases:
B501 standard analogue detector base
B501DG analogue deep base
B501AP intelligent sensor base
B524IEFT-1 short circuit isolator
B524HTR heater base
B524RTE latching relay base

A copy of the certificate, confirming the full scope of approval including notes relating to the superscript references in the above table, may be viewed online by clicking on the product name in the associated entry on www.RedBookLive.com

Certificate No: 199aa-(cl-2) to EN 54-5: 2017 + A1: 2018, EN 54-7: 2018, CEA 4021: 2003 & EN 54-17: 2005

Multi-Sensor/Multi-Criteria Detectors

Certificated Products		LPCB Ref. No.
22051TLEI	Analogue addressable photo-thermal-IR multi-criteria smoke sensor with short circuit isolator (B501AP, B524HTR & B524RTE bases) Note: Certified at the following settings: - Alarm levels 1 to 5 (Multi-criteria): EN 54-5 Category A1R, EN 54-7 & CEA 4021: 2003 Alarm level 6 (Heat only mode): EN 54-5 Category A1R	199aa/01
22051TEI	Analogue addressable photo-thermal multi-criteria smoke sensor with short circuit isolator (B501AP, B524HTR & B524RTE bases) Note: Certified at the following settings: - Alarm levels 1 to 5 (Multi-criteria): EN 54-5 Category A1R, EN 54-7 & CEA 4021: 2003 Alarm level 6 (Heat only mode): EN 54-5 Category A1R	199aa/02

Bases:
B501AP intelligent sensor base
B524HTR heater base
B524RTE latching relay base
A copy of the certificate, confirming the full scope of approval including notes relating to the superscript references in the above table, may be viewed online by clicking on the product name in the associated entry on www.RedBookLive.com

Certificate No: 199ae-(cl-2) to EN 54-17:2005 & EN 54-20:2006

Aspirating Smoke Detectors

Certificated Products		LPCB Ref. No.
FL2011EI-HS	Analogue Addressable Single Channel Loop-Based Aspirating Detector (F-INF-25 In line filter) Notes:	199ae/01

Certificated Products		LPCB Ref. No.
	1. For compliance with Clause 5.10 of EN54-20: 2006, all detectors and displays shall be supplied with power from a power supply conforming with the requirements of EN 54-4. 2. The device is approved for sensitivity Classes A, B and C. The Class of any pipework and hole configuration, detector sensitivity and equipment parameters must be determined using PipeIQ software. 3. The approval of the detector is conditional upon the following requirements: • Design including accessories used, installation and commissioning are performed in accordance with the Advanced Set-up and Control Guide (I56-3888-xxx)	
FL2012EI-HS	Analogue Addressable Loop-Based Single Channel Unit Common Chamber Aspirating Detector, Dual Sensors (F-INF-25 In line filter) Notes: 1. This device has single channel capability with two high sensitivity smoke sensors in a common chamber. 2. For compliance with Clause 5.10 of EN54-20: 2006, all detectors and displays shall be supplied with power from a power supply conforming with the requirements of EN 54-4. 3. The device is approved for sensitivity Classes A, B and C. The Class of any pipework and hole configuration, detector sensitivity and equipment parameters must be determined using PipeIQ software. 4. The approval of the detector is conditional upon the following requirements: • Design including accessories used, installation and commissioning are performed in accordance with the Advanced Set-up and Control Guide (I56-3888-xxx).	199ae/02
FL2022EI-HS	Analogue Addressable Dual Channel Loop-Based Aspirating Detector, Dual Sensors (F-INF-25 In line filter) Notes: 1. For compliance with Clause 5.10 of EN54-20: 2006, all detectors and displays shall be supplied with power from a power supply conforming with the requirements of EN 54-4. 2. The device is approved for sensitivity Classes A, B and C. The Class of any pipework and hole configuration, detector sensitivity and equipment parameters must be determined using PipeIQ software. 3. The approval of the detector is conditional upon the following requirements: • Design including accessories used, installation and commissioning are performed in accordance with the Advanced Set-up and Control Guide (I56-3888-xxx).	199ae/03

Accessories
F-INF-25 In line filter

A copy of the certificate, confirming the full scope of approval including notes relating to the superscript references in the above table, may be viewed online by clicking on the product name in the associated entry on www.RedBookLive.com

---

Horing LIH Industrial Co Ltd

No. 35, Er-Hu Road, Hu-Hsi Village, Yuan-Shan Hsiang, Yilan Hsien 264, Taiwan ROC
Tel: +886 2 22487599 • Fax: +886 2 22407752

Certificate No: 506a to EN 54-7:2018

Point Smoke Detectors

Certificated Products		LPCB Ref. No.
AHS-871	Conventional Photoelectric Smoke Detector (AHMB-L Mounting Base)	506a/01
AH-0311-2	(2 Wire) Conventional Photoelectric Smoke Detector (AHMB-031 Base)	506a/02
AH-0311-3	(3 Wire) Conventional Photoelectric Smoke Detector (AHMB-031 Base)	506a/03
AH-0311-4	(4 wire) Conventional Photoelectric Smoke Detector (AHMB-031 Base)	506a/04
Q01-2	Conventional 2-Wire Optical Smoke Detector (AHMB-061-2 and AHMB-071-2 Bases)	506a/05
Q01-3	Conventional 3-Wire Optical Smoke Detector with Remote (AHMB-061-3 and AHMB-071-3 Bases)	506a/06
Q01-4	Conventional 4-Wire Optical Smoke Detector with Relay Output (AHMB-061-4 and AHMB-071-4 Bases)	506a/07

Bases:
AHMB-031 Mounting Base
AHMB-L Mounting Base
AHMB-061-2 Standard Base
AHMB-061-3 Standard Base
AHMB-061-4 Standard Base
AHMB-071-2 Base Unit
AHMB-071-3 Base Unit
AHMB-071-4 Base Unit
A copy of the certificate, confirming the full scope of approval including notes relating to the superscript references in the above table, may be viewed online by clicking on the product name in the associated entry on www.RedBookLive.com

Certificate No: 506b to EN 54-7:2018, EN 54-5:2017 + A1:2018 and CEA 4021:2003

Multi-criteria Detectors

Certificated Products		**LPCB Ref. No.**
Q05-2	Conventional 2-Wire Optical Smoke and Category A2 Heat Detector (AHMB-061-2 and AHMB-071-2 Bases)	506b/04
Q05-3	Conventional 3-Wire Optical Smoke and Category A2 Heat Detector with Remote LED (AHMB-061-3 and AHMB-071-3 Bases)	506b/05
Q05-4	Conventional 4-Wire Optical Smoke and Category A2 Heat Detector with Relay Output (AHMB-061-4 and AHMB-071-4 Bases)	506b/06

Bases:
AHMB-061-2 Standard Base
AHMB-061-3 Standard Base
AHMB-061-4 Standard Base
AHMB-071-2 Base Unit
AHMB-071-3 Base Unit
AHMB-071-4 Base Unit

A copy of the certificate, confirming the full scope of approval including notes relating to the superscript references in the above table, may be viewed online by clicking on the product name in the associated entry on www.RedBookLive.com

Certificate No: 506c to EN 54-5:2017 + A1:2018

Point Heat Detector

Certificated Products		**LPCB Ref. No.**
Q06-2	Conventional 2-Wire Category A2 Heat Detector (AHMB-061-2 and AHMB-071-2 Bases)	506c/04
Q06-3	Conventional 3-Wire Category A2 Heat Detector with Remote LED (AHMB-061-3 and AHMB-071-3 Bases)	506c/05
Q06-4	Conventional 4-Wire Category A2 Heat Detector with Relay Output (AHMB-061-4 and AHMB-071-4 Bases)	506c/06

Bases:
AHMB-061-2 Standard Base
AHMB-061-3 Standard Base
AHMB-061-4 Standard Base
AHMB-071-2 Base Unit
AHMB-071-3 Base Unit
AHMB-071-4 Base Unit
A copy of the certificate, confirming the full scope of approval including notes relating to the superscript references in the above table, may be viewed online by clicking on the product name in the associated entry on www.RedBookLive.com

Certificate No: 506g to EN 54-10:2002 + A1:2005

Certificated Products		**LPCB Ref. No.**
IR-0714-2	Infrared Single Flame Detector (AHMB-071) Note: Meets EN 54-10:2002 at Class 2 and 3 Sensitivity	506g/01
IR-0814-2	Infrared Dual Flame Detector (AHMB-071) Note: Meets EN 54-10:2002 at Class 2 and 3 Sensitivity	506g/02
EDFS1	Single IR Flame Detector	506g/03

Certificated Products		LPCB Ref. No.
	Note: Meets EN 54-10:2002 at Class 1 Sensitivity	
EDFS2	Dual IR Flame Detector Note: Meets EN 54-10:2002 at Class 1 Sensitivity	506g/04

AHMB-071 Mounting Base
A copy of the certificate, confirming the full scope of approval including notes relating to the superscript references in the above table, may be viewed online by clicking on the product name in the associated entry on www.RedBookLive.com

Certificate No: 506h to EN 54-12:2015

Certificated Products		LPCB Ref. No.
EDB01	Reflective Beam Smoke Detector Notes: 1. Meets the requirements of EN 54-12: 2015 at sensitivity settings 18%, 25%, 35% and 50% 2. Suitable for use at the following separation ranges: a) 5 to 20 metres Short Path (1 x prism reflector required) b) 20 to 50 metres Short Path (1 x prism reflector required) c) 50 to 70 metres Normal Path (4 x prism reflector required) d) 70 to 100 metres Long Path (4 x prism reflector required)	506h/01

Accessories:

1 x Prism Reflector
4 x Prism Reflector

A copy of the certificate, confirming the full scope of approval including notes relating to the superscript references in the above table, may be viewed online by clicking on the product name in the associated entry on www.RedBookLive.com

---

Hyfire Wireless Fire Solutions Limited

Unit B12a, Holly Farm Business Park, Honiley, Warwickshire CV8 1NP, United Kingdom
Tel: +44(0)1926485282 • Fax: +44(0)1926485090
E-mail: info@hyfirewireless.co.uk • Website: www.hyfirewireless.com

Certificate No: 928a-(cl-9) to EN 54-5: 2017 + A1: 2018 and EN 54-17: 2005

Certificated Products		LPCB Ref. No.
HFI-TA-05	Analogue Addressable Category P Heat Detector with Short Circuit Isolator (HFI-DMBS-05 Base) Note: Meets the requirements of EN 54-5 for Category A1R and Category B	928a/02

Bases

HFI-UB-01	Universal adaptor base
HFI-DUB-01	Deep adaptor base
HFI-DMB-01	Vega adaptor base
HFI-DDB-01	Vega deep adaptor base
HFI-UBS-01	Universal adaptor base with shorting clip
HFI-DUBS-01	Deep adaptor base with shorting clip
HFI-DMBS-01	Vega adaptor base with shorting clip
HFI-DDBS-01	Vega deep adaptor base with shorting clip
WAB100	Wireless Adaptor Base
HFI-DMBS-05	Low profile adaptor base

A copy of the certificate, confirming the full scope of approval including notes relating to the superscript references in the above table, may be viewed online by clicking on the product name in the associated entry on www.RedBookLive.com

Certificate No: 928b-(cl-9) to EN 54-7: 2018 and EN 54-17: 2005

Point Smoke Detectors

Certificated Products		**LPCB Ref. No.**
HFI-PA-05	Addressable Photoelectric Smoke Detector with Short-Circuit Isolator (HFI-DMBS-05 Base) *Note:* *1. Meets the requirements of EN 54-7 at the following sensitivity settings:* *Optical only level 1 - High* *Optical only level 2* *Optical only level 3* *Optical only level 4 - Low*	928b/02

Bases

HFI-UB-01	Universal adaptor base
HFI-DUB-01	Deep adaptor base
HFI-DMB-01	Vega adaptor base
HFI-DDB-01	Vega deep adaptor base
HFI-UBS-01	Universal adaptor base with shorting clip
HFI-DUBS-01	Deep adaptor base with shorting clip
HFI-DMBS-01	Vega adaptor base with shorting clip
HFI-DDBS-01	Vega deep adaptor base with shorting clip
HFI-DMBS-05	Low profile adaptor base

WAB 100 Wireless Adaptor Base

A copy of the certificate, confirming the full scope of approval including notes relating to the superscript references in the above table, may be viewed online by clicking on the product name in the associated entry on www.RedBookLive.com

Certificate No: 928c-(cl-9) to EN 54-5: 2017 + A1: 2018, EN 54-7: 2018, EN 54-17: 2005 and CEA 4021: 2003

Multi-Sensor Detectors

Certificated Products		**LPCB Ref. No.**
HFI-MA-05	Addressable Multi-Criteria Detector with Short-Circuit Isolator (HFI-DMBS-05 Base) *Notes:* *1. Meets the requirements of EN 54-5 (Category A1) & EN 54-7 at the following settings:* *Multi Criteria Level 1 (most sensitive) - Thermally enhanced smoke detection with Category A1 heat response* *Multi Criteria Level 2 - Thermally enhanced smoke detection with Category A1 heat response* *Multi Criteria Level 3 - Thermally enhanced smoke detection with Category A1 heat response* *Multi Criteria Level 4 (least sensitive) - Thermally enhanced smoke detection with Category A1 heat response* *2. Meets the requirements of EN 54-5 (Category A1R) at the following settings:* *Category A1R heat only response* *3. Meets the requirements of EN 54-7 at the following settings:* *Optical only level 1 - High* *Optical only level 2* *Optical only level 3* *Optical only level 4 - Low*	928c/02

Bases

HFI-UB-01	Universal adaptor base
HFI-DUB-01	Deep adaptor base
HFI-DMB-01	Vega adaptor base
HFI-DDB-01	Vega deep adaptor base
HFI-UBS-01	Universal adaptor base with shorting clip
HFI-DUBS-01	Deep adaptor base with shorting clip
HFI-DMBS-01	Vega adaptor base with shorting clip
HFI-DDBS-01	Vega deep adaptor base with shorting clip
HFI-DMBS-05	Low profile adaptor base
WAB 100	Wireless Adaptor Base

A copy of the certificate, confirming the full scope of approval including notes relating to the superscript references in the above table, may be viewed online by clicking on the product name in the associated entry on www.RedBookLive.com

Certificate No: 928k-(cl-6) to EN 54-7: 2018 and EN 54-25: 2008

Smoke Detectors

Certificated Products		**LPCB Ref. No.**
HFW-PA-05	Wireless Libra Addressable Optical Smoke Detector (WAB100 Base) *Notes:* *1 Meets the requirements of EN 54-7 at the following sensitivity settings:* *Level 1 - High* *Level 2 - Normal* *Level 3 - Low* *2 The device must be used with the following battery type only:* *- CR123A (3 Vdc) - Primary and Secondary Battery*	928k/02
ROP-E	Wireless Addressable Optical Smoke Detector (WAB100 Base) *Notes:* *1 Meets the requirements of EN 54-7 at the following sensitivity settings:* *Level 1 - High* *Level 2 - Normal* *Level 3 - Low* *2 The device must be used with the following battery type only:* *- CR123A (3 Vdc) - Primary and Secondary Battery*	928k/02

Bases:
WAB100 Wireless Adaptor Base
A copy of the certificate, confirming the full scope of approval including notes relating to the superscript references in the above table, may be viewed online by clicking on the product name in the associated entry on www.RedBookLive.com

Certificate No: 928m-(cl-6) to EN 54-5: 2017 + A1: 2018, EN 54-7: 2018, EN 54-25: 2008 and CEA 4021: 2003

Multi-Criteria Detectors

Certificated Products		**LPCB Ref. No.**
HFW-MA-05	Wireless Libra Addressable Multicriteria Detector (WAB100 Base) *Notes:* *1. Meets the requirements of EN 54-5 for Category A1R* *2. Meets the requirements of EN 54-7 in the normal sensitivity setting* *Level 1 - High* *Level 2 - Normal* *Level 3 - Low* *3. The device must be used with the following batteries only* *CR123A (3 Vdc) -Primary and Secondary Battery*	928m/02
RMC-E	Wireless Addressable Multicriteria Detector (WAB100 Base) *Notes:* *1. Meets the requirements of EN 54-5 for Category A1R* *2. Meets the requirements of EN 54-7 in the normal sensitivity setting* *Level 1 - High* *Level 2 - Normal* *Level 3 - Low* *3. The device must be used with the following batteries only* *CR123A (3 Vdc) -Primary and Secondary Battery*	928m/02

Bases:
WAB100 Wireless Adaptor Base

Certificate No: 928j-(cl-6) to EN 54-5:2017+ A1:2018, EN 54-25:2008

Certificated Products		**LPCB Ref. No.**
HFW-TA-05	Wireless Libra Addressable Category P Heat Detector (WAB100 Base) *Notes:* *1. Meets the requirements of EN 54-5 for Category A1R and BS* *2. The device must be used with the following battery type only:* *CR123A (3 Vdc) - Primary and Secondary Battery*	928j/02
RHT-E	Wireless Addressable Category P Heat Detector (WAB100 Base) *Notes:* *1. Meets the requirements of EN 54-5 for Category A1R and BS* *2. The device must be used with the following battery type only:* *CR123A (3 Vdc) - Primary and Secondary Battery*	928j/02

WAB 100 Wireless Adaptor Base
A copy of the certificate, confirming the full scope of approval including notes relating to the superscript references in the above table, may be viewed online by clicking on the product name in the associated entry on www.RedBookLive.com

Certificate No: 928d-(cl-12) to EN 54-5:2017+A1:2018

Certificated Products		LPCB Ref. No.
HFI-TAE-05	Addressable Category P Heat Detector (HFI-DMBS-05 Base) Note: 1. Meets the requirements of EN 54-5 for Category A1R, Category B and Category BS	928d/03

Bases

HFI-DMBS-05 Low Profile Adaptor Base

A copy of the certificate, confirming the full scope of approval including notes relating to the superscript references in the above table, may be viewed online by clicking on the product name in the associated entry on www.RedBookLive.com

Certificate No: 928m-(cl-6) to EN 54-5:2017+A1:2018, EN 54-7:2018, EN 54-25:2008, CEA 4021:2003

Certificated Products		LPCB Ref. No.
HFW-MA-05	Wireless Libra Addressable Multicriteria Detector (WAB100 Base) Notes: 1. Meets the requirements of EN 54-5 for Category A1R 2. Meets the requirements of EN 54-7 in the normal sensitivity setting Level 1 - High Level 2 - Normal Level 3 - Low 3. The device must be used with the following batteries only CR123A (3 Vdc) -Primary and Secondary Battery	928m/02
RMC-E	Wireless Addressable Multicriteria Detector (WAB100 Base) Notes: 1. Meets the requirements of EN 54-5 for Category A1R 2. Meets the requirements of EN 54-7 in the normal sensitivity setting Level 1 - High Level 2 - Normal Level 3 - Low 3. The device must be used with the following batteries only CR123A (3 Vdc) -Primary and Secondary Battery	928m/02

Bases

WAB100 Wireless Adaptor Base

A copy of the certificate, confirming the full scope of approval including notes relating to the superscript references in the above table, may be viewed online by clicking on the product name in the associated entry on www.RedBookLive.com

Certificate No: 928aj-(cl-1) to EN 54-5:2017+A1:2018, EN 54-7:2018, EN 54-25:2008, EN 54-31:2014+A1:2016

Certificated Products		LPCB Ref. No.
HFW-TRI-05	Wireless Addressable Multi Criteria Smoke, Heat and CO Detector. (WAB100 Base) Notes: 1. Meets the requirements of EN 54-31 and EN 54-5 depending on the specific classification setting at classes A1R and BS. 2. Meets the requirements of EN 54-31 and EN 54-7 at all classification settings. Classification Settings: L0 – Harsh smoke profile; smoke profile number 0; heat classification BS.	928aj/01

Certificated Products		LPCB Ref. No.
	L1 – Harsh smoke profile; smoke profile number 1; heat classification A1R. L2 – Harsh smoke profile; smoke profile number 2; heat classification A1R. L3 – Harsh smoke profile; smoke profile number 3; heat classification A1R. N0 – Normal smoke profile; smoke profile number 0; heat classification A1R. N1 – Normal smoke profile; smoke profile number 1; heat classification A1R. N2 – Normal smoke profile; smoke profile number 2; heat classification A1R. N3 – Normal smoke profile; smoke profile number 3; heat classification A1R. H0 – Clean smoke profile; smoke profile number 0; heat classification A1R. H1 – Clean smoke profile; smoke profile number 1; heat classification A1R. H2 – Clean smoke profile; smoke profile number 2; heat classification A1R. H3 – Clean smoke profile; smoke profile number 3; heat classification A1R.	

Base:

WAB100 Base

A copy of the certificate, confirming the full scope of approval including notes relating to the superscript references in the above table, may be viewed online by clicking on the product name in the associated entry on www.RedBookLive.com

Certificate No: 928e-(cl-12) to EN 54-7:2018

Certificated Products		LPCB Ref. No.
HFI-PAE-05	Addressable Photoelectric Smoke Detector (HFI-DMBS-05 Base) Note: 1. Meets the requirements of EN 54-7 at the following sensitivity settings: Optical only level 1 - High Optical only level 2 Optical only level 3 Optical only level 4 - Low	928e/03

Bases

HFI-DMBS-05 Low Profile Adaptor Base

A copy of the certificate, confirming the full scope of approval including notes relating to the superscript references in the above table, may be viewed online by clicking on the product name in the associated entry on www.RedBookLive.com

Certificate No: 928f-(cl-8) to EN 54-5:2017+A1:2018, EN 54-7:2018, CEA 4021:2003

Certificated Products		LPCB Ref. No.
HFI-MAE-05	Addressable Photo & Category A1R Heat Detector (HFI-DMBS-05 Base) Notes 1. Meets the requirements of EN 54-5 (Category A1) & EN 54-7 at the following settings: Multi criteria level 1 (most sensitive) - thermally enhanced smoke detection with Category A1 heat Multi criteria level 2 - thermally enhanced smoke detection with Category A1 heat response Multi criteria level 3 - thermally enhanced smoke detection with Category A1 heat response Multi criteria level 4 (least sensitive) - thermally enhanced smoke detection with Category A1 heat 2. Meets the requirements of EN 54-5 (Category A1R) at the following settings: Heat detection only Category A1R 3. Meets the requirements of EN 54-7 at the following settings: Optical only level 1 - High Optical only level 2 Optical only level 3 Optical only level 4 - Low	928f/02

Bases

HFI-DMBS-05 Low Profile Adaptor Base

A copy of the certificate, confirming the full scope of approval including notes relating to the superscript references in the above table, may be viewed online by clicking on the product name in the associated entry on www.RedBookLive.com

---

INIM Electronics S.R.L

Via Dei Lavoratori 10, Frazione Centobuchi, Monteprandone (AP) 63076, Italy
Tel: +39 0735 705007 • Fax: +39 0735 704912
E-mail: info@inim.biz • Website: www.inim.biz

Certificate No: 991a to EN 54-5:2017 + A1:2018, EN 54-7:2018, CEA 4021:2003

Certificated Products		LPCB Ref. No.
ID300	Conventional Multi-Criteria Detector (EB0010, EB0020, EB0110 and EB0120 bases) Notes: 1) Meets EN 54-7 with Low, Medium-Low, Medium-High and High sensitivities. 2) Meets EN 54-5 at Category A1R and Category B.	991a/01

Bases:
EB0010 Standard Base
EB0020 Relay Base
EB0110 Standard Base
EB0120 Relay Base
A copy of the certificate, confirming the full scope of approval including notes relating to the superscript references in the above table, may be viewed online by clicking on the product name in the associated entry on www.RedBookLive.com

Certificate No: 991c to EN 54-7:2018

Certificated Products		LPCB Ref. No.
ID100	Conventional Optical Smoke Detector (EB0010, EB0020, EB0110 and EB0120 bases) Note: Meets EN 54-7 with Low, Medium-Low, Medium-High and High sensitivities.	991c/01

Bases:
EB0010 Standard Base
EB0020 Relay Base
EB0110 Standard Base
EB0120 Relay Base
A copy of the certificate, confirming the full scope of approval including notes relating to the superscript references in the above table, may be viewed online by clicking on the product name in the associated entry on www.RedBookLive.com

Certificate No: 991e to EN 54-5:2017 + A1:2018

Certificated Products		LPCB Ref. No.
ID200	Conventional Category P Heat Detector (EB0010, EB0020, EB0110 and EB0120 bases) Note: 1) Meets EN 54-5 at Category A1R and Category B	991e/01

Bases:
EB0010 Standard Base
EB0020 Relay Base
EB0110 Standard Base
EB0120 Relay Base
A copy of the certificate, confirming the full scope of approval including notes relating to the superscript references in the above table, may be viewed online by clicking on the product name in the associated entry on www.RedBookLive.com

Certificate No: 991b to EN 54-5:2017 + A1:2018, EN 54-7:2018, EN 54-17:2005, CEA 4021:2003

Certificated Products		LPCB Ref. No.
ED300	Intelligent Analogue Addressable Multi-Criteria Detector with Short Circuit Isolator	991b/01

Certificated Products		LPCB Ref. No.
	(EB0010, EB0020, EB0110 and EB0120 bases) Notes: 1) Meets EN 54-7 with Low, Medium-Low, Medium-High and High sensitivities. 2) Meets the requirements of EN 54-5 at category A1R and category B.	

Bases

EB0010 Standard Base
EB0020 Relay Base
EB0110 Standard Base
EB0120 Relay Base

A copy of the certificate, confirming the full scope of approval including notes relating to the superscript references in the above table, may be viewed online by clicking on the product name in the associated entry on www.RedBookLive.com

Certificate No: 991d to EN 54-7:2018, EN 54-17:2005

Certificated Products		LPCB Ref. No.
ED100	Intelligent Analogue Addressable Optical Smoke Detector with Short Circuit Isolator (EB0010, EB0020, EB0110 and EB0120 bases) Note: 1) Meets EN 54-7 with Low, Medium-Low, Medium-High and High sensitivities	991d/01

Bases

EB0010 Standard Base
EB0020 Relay Base
EB0110 Standard Base
EB0120 Relay Base

A copy of the certificate, confirming the full scope of approval including notes relating to the superscript references in the above table, may be viewed online by clicking on the product name in the associated entry on www.RedBookLive.com

Certificate No: 991f to EN 54-5:2017 + A1:2018, EN 54-17:2005

Certificated Products		LPCB Ref. No.
ED200	Intelligent Analogue Addressable Category P Heat Detector with Short Circuit Isolator (EB0010, EB0020, EB0110 and EB0120 bases)Note: 1) Meets the requirements of EN 54-5 at category A1R & category B	991f/01

Bases

EB0010 Standard Base
EB0020 Relay Base
EB0110 Standard Base
EB0120 Relay Base

A copy of the certificate, confirming the full scope of approval including notes relating to the superscript references in the above table, may be viewed online by clicking on the product name in the associated entry on www.RedBookLive.com

---

IOT_FIRE

33 jurong west street 41, #11-41 Singapore, 649413, Singapore
Tel: +65 65270318
E-mail: Sales@iot-fire.com • Website: www.iot-fire.com

Certificate No: 1330a-(cl-11) to EN54-12:2015

Certificated Products		LPCB Ref. No.
SS-6688	Conventional Reflective Beam Detector *Notes:* *1. Meets the requirements of EN 54-12: 2015 at the following sensitivity settings:* *- Level 1: 2.6 dB High sensitivity* *- Level 2: 3.8 dB Medium sensitivity*	1330a/01

Certificated Products		LPCB Ref. No.
	- *Level 3: 5.8 dB Low sensitivity* *2. Suitable for use at the following separation ranges:* - *Span 1: 8 to 20 meters Short Path (1 x mirror reflector required)* - *Span 2: 20 to 40 meters Short Path (1 x mirror reflector required)* - *Span 3: 40 to 70 meters Normal Path (4 x mirror reflector required)* - *Span 4: 70 to 100 meters Long Path (4 x mirror reflector required)*	

Accessories
Mounting Bracket
SS-6688-R 1 x Mirror Reflector
SS-6688-R 4 x Mirror Reflector

A copy of the certificate, confirming the full scope of approval including notes relating to the superscript references in the above table, may be viewed online by clicking on the product name in the associated entry on www.RedBookLive.com

Certificate No: 1330b-(cl-6) to EN 54-7:2018

Certificated Products		LPCB Ref. No.
SS-1788	Intelligent Smoke Detector (SS-88 Base)	1330b/01

Base
SS-88 Detector Base
A copy of the certificate, confirming the full scope of approval including notes relating to the superscript references in the above table, may be viewed online by clicking on the product name in the associated entry on www.RedBookLive.com

Certificate No: 1330c-(cl-6) to EN 54-5: 2017 + A1: 2018

Certificated Products		LPCB Ref. No.
SS-1388	Intelligent Heat Detector (SS-88 Base) *Note:* *1. Meets the requirements of EN 54-5 for Category A1R*	1330c/01

Base
SS-88 Detector Base

A copy of the certificate, confirming the full scope of approval including notes relating to the superscript references in the above table, may be viewed online by clicking on the product name in the associated entry on www.RedBookLive.com

Certificate No: 1330j-(cl-5) to EN 54-29:2015

Certificated Products		LPCB Ref. No.
SS-1688	Intelligent Multi-sensor Fire Detector (SS-88 Base) *Notes:* *Meets the requirements of EN 54-29 for Heat Category A2R*	1330j/01

Base
SS-88
A copy of the certificate, confirming the full scope of approval including notes relating to the superscript references in the above table, may be viewed online by clicking on the product name in the associated entry on www.RedBookLive.com

---

Kentec Electronics Limited

Units 25-27, Fawkes Avenue, Questor, Dartford, Kent DA1 1JQ, United Kingdom
Tel: +44 (0)1322 222121 • Fax: +44 (0)1322 291794
E-mail: sales@kentec.co.uk • Website: www.kentec.co.uk

Certificate No: 117p-(cl-2) to EN 54-5:2017 + A1:2018, EN 54-7:2018, EN 54-26:2015, EN 54-29:2015, EN 54-30:2015, EN 54-31:2015 & CEA 4021:2003

Multi-Sensor/Multi-Criteria Detectors

Certificated Products		LPCB Ref. No.
KS-MULTI-CO	Intelligent Analogue Addressable Multi-Criteria Detector (White colour) (KS-BASE-3T, KS-BSND, KS-BSNDB2-RL and KS-BASE-3T-SCI bases) Notes: 1. Meets the requirements of EN 54-5, depending on the specific heat mode selected, at Categories A1, A1S, A1R, C, CS, CR 2. Meets the requirements of EN 54-7, depending on the specific smoke mode selected, at Sensitivity Settings 2% and 4.5% Modes: 9A* Smoke/Heat/Co Combine (Default Mode) 9B Co/Heat combine, Heat (RoR) 80* Smoke/Heat combine 81 Smoke/Heat combine 82* Smoke 83 Smoke 87 Heat (FT) Heat (RoR) (Fixed Level 1 - Category A1) 88 Heat (FT) Heat (RoR) (Fixed Level 2 - Category A1R) 89 Heat (FT) (Fixed Level 3 - Category A1S) 8A Heat (FT) Heat (RoR) (Fixed Level 4 - Category C) 8B Heat (FT) Heat (RoR) (Fixed Level 5 - Category CR) 8C Heat (FT) (Fixed Level 6 - Class CS) 8D Smoke, Co, Heat (FT), Heat (RoR), COHb 8E* Smoke/Heat Combine, COHb 8F* Smoke, COHb 93 Heat (FT), Heat (RoR), COHb (Fixed Level 1 - Category A1) +COHb 94 Heat (FT), Heat (RoR), COHb (Fixed Level 2 - Category A1R) +COHb 95 Heat (FT), COHb (Fixed Level 3 - Category A1S) +COHb 96 Heat (FT), Heat (RoR), COHb (Fixed Level 4 - Category C) +COHb 97 Heat (FT), Heat (RoR), COHb (Fixed Level 5 - Category CR) +COHb 98 Heat (FT), COHb (Fixed Level 6 - Category CS) +COHb 99* Smoke/Heat/CO Combine, Smoke, CO/Heat Combine, Heat (FT), Heat (RoR), COHb 9C COHb 9D CO FT = Fixed Temperature RoR = Rate of Rise COHb = Carboxyhemoglobin * Reduced false alarm function	117p/02

Bases

KS-BASE-3T	Standard Base
KS-BASE-3T-SCI	Short Circuit Isolator Base
KS BASE-4T	Addressable Detector Base (White)
KS-BSNDB2-RL	Base Sounder Beacon (Red LED)
KS-BSND	Base Sounder

A copy of the certificate, confirming the full scope of approval including notes relating to the superscript references in the above table, may be viewed online by clicking on the product name in the associated entry on www.RedBookLive.com

Certificate No: 164y-(cl-1) to EN 54-5:2017+ A1:2018

Heat Detectors

Certificated Products		LPCB Ref. No.
KS-HEAT-D	Intelligent Analogue Addressable Category P Heat Detector (KS-BSNDB2-RL base) Note: Categories A1R, BR, CR, A1S, BS and CS.	164y/01
KS-HEAT	Intelligent Analogue Addressable Category P Heat Detector (KS-BSNDB2-RL base) Note: Categories A1R, BR, CR, A1S, BS and CS.	164y/02

Bases

KS-BASE-3T	Standard Base
KS-BASE-3T-SCI	Short Circuit Isolator Base
KS BASE-4T	Addressable Detector Base (White)
KS-BSNDB2-RL	Base Sounder Beacon (Red LED)

A copy of the certificate, confirming the full scope of approval including notes relating to the superscript references in the above table, may be viewed online by clicking on the product name in the associated entry on www.RedBookLive.com

Certificate No: 358c-(cl-4) to EN 54-7:2018

Smoke Detectors

Certificated Products		LPCB Ref. No.
KS-OPT	Intelligent Analogue Addressable Optical Smoke Detector (White) (KS-BSNDB2-RL base) Note: 1. Meets the requirements of EN 54-7 in low and high sensitivity settings.	358c/07
KS-OPT-D	Intelligent Analogue Addressable Optical Smoke Detector (White) (KS-BSNDB2-RL base) Note: 1. Meets the requirement of EN 54-7 in low and high sensitivity settings.	358c/08

Bases:
KS-BSNDB2-RL Base Sounder Beacon (Red LED)
A copy of the certificate, confirming the full scope of approval including notes relating to the superscript references in the above table, may be viewed online by clicking on the product name in the associated entry on www.RedBookLive.com

Certificate No: 164aa-(cl-1) to EN 54-5:2017+A1:2018, EN 54-7:2018, EN 54-17:2005, EN 54-29:2015

Certificated Products		LPCB Ref. No.
KS-MULTI-SCI	Intelligent Analogue Addressable Multi-criteria Detector with Short Circuit Isolator (KS-BASE-3T, KS-BASE-3T-SCI and KS BASE-4T bases) Notes: Certificated at the following modes: Mode 0 -enhanced smoke detector at 2% and 4.5% sensitivity (Multi) Mode 1 - Optical smoke detector at 2% and 4.5% sensitivity (Smoke only) Mode 2 - Fixed temperature heat detector at Categories A1 & C (Heat only)	164aa/01

Bases

KS-BASE-3T	Standard Base
KS-BASE-3T-SCI	Short Circuit Isolator Base
KS BASE-4T	Addressable Detector Base (White)

A copy of the certificate, confirming the full scope of approval including notes relating to the superscript references in the above table, may be viewed online by clicking on the product name in the associated entry on www.RedBookLive.com

Certificate No: 164ac-(cl-1) to EN 54-5:2017+A1:2018, EN 54-7:2018, EN 54-29:2015

Certificated Products		LPCB Ref. No.
KS-MULTI	Intelligent Analogue Addressable Multi-criteria Detector (KS-BSNDB2-RL base) Note: Certificated at the following modes: Mode 0 Thermally enhanced smoke detector at 2% and 4.5% sensitivity Mode 1 Optical smoke detector at 2% and 4.5% sensitivity Mode 2 Fixed temperature heat detector at Categories A1 & C	164ac/01

Bases
KS-BSNDB2-RL Base Sounder Beacon (Red LED)

A copy of the certificate, confirming the full scope of approval including notes relating to the superscript references in the above table, may be viewed online by clicking on the product name in the associated entry on www.RedBookLive.com

Certificate No: 164w-(cl-1) to EN 54-5:2017+A1:2018, EN 54-7:2018, CEA 4021:2003

Certificated Products		LPCB Ref. No.
KS-MULTI-D	Intelligent Analogue Addressable Multi-criteria Detector (KS-BSNDB2-RL base) Note: Certificated at the following modes: Mode 0 Thermally enhanced smoke detector at 2% and 4.5% sensitivity Mode 1 Optical smoke detector at 2% and 4.5% sensitivity Mode 2 Fixed temperature heat detector at Categories A1 & C	164w/01

Bases

KS-BSNDB2-RL Base Sounder Beacon (Red LED)

A copy of the certificate, confirming the full scope of approval including notes relating to the superscript references in the above table, may be viewed online by clicking on the product name in the associated entry on www.RedBookLive.com

Certificate No: 164z-(cl-1) to EN 54-5:2017+A1:2018, EN 54-7:2018, EN 54-17:2005

Certificated Products		LPCB Ref. No.
KS-MULTI-SCI-D	Intelligent Analogue Addressable Multi-Criteria Detector with Short Circuit Isolator (White Enclosure) (KS-BASE-3T, KS-BASE-3T-SCI and KS BASE-4T bases) Notes: Certificated at the following modes: Mode 0 -enhanced smoke detector at 2% and 4.5% sensitivity (Multi) Mode 1 - Optical smoke detector at 2% and 4.5% sensitivity (Smoke only) Mode 2 - Fixed temperature heat detector at Categories A1 & C (Heat only)	164z/01

Bases

KS-BASE-3T	Standard Base
KS-BASE-3T-SCI	Short Circuit Isolator Base
KS BASE-4T	Addressable Detector Base (White)

A copy of the certificate, confirming the full scope of approval including notes relating to the superscript references in the above table, may be viewed online by clicking on the product name in the associated entry on www.RedBookLive.com

Certificate No: 164ab-(cl-1) to EN 54-5:2017+A1:2018, EN 54-17:2005

Certificated Products		LPCB Ref. No.
KS-HEAT-SCI-D	Intelligent Analogue Addressable Category P Heat Detector with Short Circuit Isolator (KS-BASE-3T, KS-BASE-3T-SCI and KS BASE-4T bases) Note: Meets the requirements of EN 54-5 for Categories A1R, BR, CR, A1S, BS & CS	164ab/01
KS-HEAT-SCI	Intelligent Analogue Addressable Category P Heat Detector with Short Circuit Isolator (KS-BASE-3T, KS-BASE-3T-SCI and KS BASE-4T bases) Note: Meets the requirements of EN 54-5 for Categories A1R, BR, CR, A1S, BS & CS	164ab/02

Bases

KS-BASE-3T	Standard Base
KS-BASE-3T-SCI	Short Circuit Isolator Base
KS BASE-4T	Addressable Detector Base (White)

A copy of the certificate, confirming the full scope of approval including notes relating to the superscript references in the above table, may be viewed online by clicking on the product name in the associated entry on www.RedBookLive.com

Certificate No: 358e-(cl-2) to EN 54-7:2018, EN 54-17:2005

Certificated Products		LPCB Ref. No.
KS-OPT-SCI-D	Intelligent Analogue Addressable Optical Smoke Detector with Short Circuit Isolator, White Housing (KS-BSNDB2-RL base) Note: 1. Meets the requirements of EN 54-7 at 2% and 4.5% sensitivity	358e/01
KS-OPT-SCI	Intelligent Analogue Addressable Optical Smoke Detector with Short Circuit Isolator, White Housing (KS-BSNDB2-RL base) Note: 1. Meets the requirements of EN 54-7 at 2% and 4.5% sensitivity	358e/02

Bases

KS-BSNDB2-RL Base Sounder Beacon (Red LED)

A copy of the certificate, confirming the full scope of approval including notes relating to the superscript references in the above table, may be viewed online by clicking on the product name in the associated entry on www.RedBookLive.com

Ketton Power & Safety Ltd

82A James Carter Road, Mildenhall Industrial Estate, Mildenhall, Bury St Edmonds, Suffolk IP28 7DE, United Kingdom
Tel: +905363978385
E-mail: Info@kettonfire.co.uk

Certificate No: 1450c-(cl-4) to EN 54-7:2018

Certificated Products		LPCB Ref. No.
KET-SD-120	Addressable Photoelectric Smoke Detector (KET-DB-260 base)	1450c/01

Base
KET-DB-260 – Standard Base

A copy of the certificate, confirming the full scope of approval including notes relating to the superscript references in the above table, may be viewed online by clicking on the product name in the associated entry on www.RedBookLive.com

Certificate No: 1450d-(cl-4) to EN 54-5:2017+A1:2018

Certificated Products		LPCB Ref. No.
KET-HD-140	Addressable Category A2R Rate of Rise and Fixed Temperature Heat Detector (KET-DB-260 Base)	1450d/01

Base
KET-DB-260– Standard Base

A copy of the certificate, confirming the full scope of approval including notes relating to the superscript references in the above table, may be viewed online by clicking on the product name in the associated entry on www.RedBookLive.com

Certificate No: 1450j-(cl-3) to EN 54-29:2015

Certificated Products		LPCB Ref. No.
KET-SHD-160	Addressable Smoke and Heat Multi Detector (KET-DB-260) Notes: 1. Meets the requirements of EN 54-29 for Heat Category A2R Meets the requirements of EN 54-29 at Smoke sensitivity levels High, Medium and Low	1450j/01

Bases
KET-DB-260 Standard Base

A copy of the certificate, confirming the full scope of approval including notes relating to the superscript references in the above table, may be viewed online by clicking on the product name in the associated entry on www.RedBookLive.com

KMW Systems S.R.L.

Str.Sambetei, Nr. 6 Iasi, , Romania
Tel: 0040232247288
E-mail: marius.gavriluta@kmw.ro

Certificate No: 1174a-(cl-7) to EN 54-7:2018

Smoke Detectors

Approved Products		LPCB Ref. No.
KM-FC5100	Conventional Optical Smoke Detector (KM-FC5101 base) Note: 1. Meets the requirements of EN 54-7 at default sensitivity setting only	1174a/01
KM-FA6100	Digital Smoke Detector (KM-FC6101 base) Note: 1. Meets the requirements of EN 54-7 at the following sensitivities: - Mode 0 (High) - Mode 1 (Factory Setting) - Mode 2 - Mode 3 (Low)	1174a/02

Bases
KM-FC510 Base
KM-FA6101 Digital Detector Base

A copy of the certificate, confirming the full scope of approval including notes relating to the superscript references in the above table, may be viewed online by clicking on the product name in the associated entry on www.RedBookLive.com

Certificate No: 1174b-(cl-7) to EN 54-5:2017 + A1:2018

Heat Detectors

Approved Products		LPCB Ref. No.
KM-FC5110	Conventional Heat Detector (KM-FC5101 base) Note: 1. Meets the requirements of EN 54-5 at Category A2R	1174b/01
KM-FA6110	Digital Heat Detector (KM-FA6101 base) Note: 1. Meets the requirements of EN 54-5:2000 at class A1R and A2 *Bases* *KM-FC5101 Base* *KM-FA6101 Digital Detector Base*	1174b/02

Bases
KM-FC5101 Base
KM-FA6101 Digital Detector Base

A copy of the certificate, confirming the full scope of approval including notes relating to the superscript references in the above table, may be viewed online by clicking on the product name in the associated entry on www.RedBookLive.com

Certificate No: 1174f-(cl-7) to EN 54-5:2017 + A1:2018, EN 54-7:2018, CEA 4021:2003

Multi-Sensor/Multi-Criteria Detectors

Certificated Products		LPCB Ref. No.
KM-FA6120	Digital Multi-Sense Detector (KM-FA6101 base) Notes: 1) Meets the requirements of EN 54-5 at Category A1R and A2 2) Meets the requirements of EN 54-7 at the following sensitivity settings - Smoke Mode 2 and A1R - Smoke Mode 2 and A2 - Smoke Mode 2 (Smoke only), heat disabled	1174f/01

Base
KM-FA6101 Digital Detector Base
A copy of the certificate, confirming the full scope of approval including notes relating to the superscript references in the above table, may be viewed online by clicking on the product name in the associated entry on www.RedBookLive.com

KOD ELEKTRONIK GÜVENLIK SISTEMLERI SANAYI VE TICARET LTD. STI

Perpa Ticaret Merkezi, B Blok KAT 11 No 1937, Okmeydani Sisli, Istanbul 34384, Turkey
Tel: +902123209595 • Fax: +902123209598
E-mail: info@codesectech.com • Website: www.codesectech.com

Certificate No: 1283a-(cl-3) to EN 54-12: 2002

Beam Detectors

Certificated Products		LPCB Ref. No.
BM100	Conventional Optical Beam Smoke Detector (Double Pass) *Notes:* *1. Meets the requirements of EN 54-12 at the following sensitivity settings only:* *- 18% obscuration high sensitivity at between 5-20m* *- 30% obscuration medium sensitivity at between 20-100m* *2. Suitable for use with BM50-1 prismatic reflector over distances from 5 to 50m* *3. Suitable for use with BM100-4 set of reflectors over distances from 50 to 100m*	1283a/01

Ancillaries

BM50-1	Single prism reflector
BM100-4	Set of 4 x prism reflectors

A copy of the certificate, confirming the full scope of approval including notes relating to the superscript references in the above table, may be viewed online by clicking on the product name in the associated entry on www.RedBookLive.com

Labor Strauss Sicherungsanlagenbau GmbH

Certificate No: 928e-(cl-11) to EN 54-7: 2018

Smoke Detectors

Certificated Products		LPCB Ref. No.
FC650/O	Conventional Photo Detector (FC600/B, FC600/BR and FC600/BRD bases)	928e/02

Bases

FC600/B	Universal adaptor base
FC600/BR	Universal adaptor base with resistor
FC600/BRD	Universal adaptor base with resistor and Schottky diode
F1750/B	Low profile adaptor base
WAB100	Wireless Adaptor Base

A copy of the certificate, confirming the full scope of approval including notes relating to the superscript references in the above table, may be viewed online by clicking on the product name in the associated entry on www.RedBookLive.com

Certificate No: 928j-(cl-10) to EN 54-5:2017 + A1:2018 EN 54-25:2008

Point Heat Detector

Certificated Products		LPCB Ref. No.
FI720/RF/T	Wireless Libra Addressable Category P Heat Detector (WAB100 Base) *Notes:* *1. Meets the requirements of EN 54-5 for Category A1R and BS* *2. The device must be used with the following battery type only:* *CR123A (3 Vdc) - Primary and Secondary Battery*	928j/02

Base

FI750/B	Low profile adaptor base

A copy of the certificate, confirming the full scope of approval including notes relating to the superscript references in the above table, may be viewed online by clicking on the product name in the associated entry on www.RedBookLive.com

Certificate No: 928d-(cl-11) to EN 54-5: 2017 + A1: 2018

Heat Detectors

Certificated Products		LPCB Ref. No.
FC650/TDIFF/57	Conventional Category A1R Thermal Detector (FC600/B, FC600/BR and FC600/BRD bases)	928d/02
FC650/TMAX/78	Conventional Category B Thermal Detector (FC600/B, FC600/BR and FC600/BRD bases)	928d/02

Bases

FC600/B	Universal adaptor base
FC600/BR	Universal adaptor base with resistor
FC600/BRD	Universal adaptor base with resistor and Schottky diode
SA5000-200	Addressable XPERT 8 Mounting Base
45681-210	XP95 Mounting Base

A copy of the certificate, confirming the full scope of approval including notes relating to the superscript references in the above table, may be viewed online by clicking on the product name in the associated entry on www.RedBookLive.com

Certificate No: 010bb to EN 54-5:2017 + A1:2018 & EN 54-7:2018 & EN 54:17: 2005 & CEA 4021: 2003

Multi-Sensor/Multi-Criteria Detectors

Certificated Products		LPCB Ref. No.
SA5100-700LST	Soteria Analogue Addressable Category A1R Optical Smoke/Heat Detector with Short Circuit Isolator (SA5000-200 and 45681-210 bases) *Certified at the following settings:* Mode 1: High sensitivity smoke detector with high heat enhancement Mode 2: Standard smoke sensitivity only Mode 3: Medium sensitivity smoke detector with medium heat enhancement Mode 4: Low sensitivity smoke detector with high heat enhancement Mode 5: Category A1R heat detector	010bb/01

Base

FI750/B	Low profile adaptor base
SA5000-200	Addressable XPERT 8 Mounting Base
45681-210	XP95 Mounting Base

Certificate No: 010bc to EN 54-7:2018 & EN 54-17: 2005

Smoke Detectors

Certificated Products		LPCB Ref. No.
SA5100-600LST	Soteria Analogue Addressable Optical Smoke Detector with Short Circuit Isolator (SA5000-200 and 45681-210 bases) *Certified at the following settings:* Mode 1: High sensitivity smoke detector with fast response time Mode 2: High sensitivity smoke detector with standard response time Mode 3: Standard smoke sensitivity with fast response time Mode 4: Standard smoke sensitivity with standard response time Mode 5: Medium-Low sensitivity smoke detector with fast response time	010bc/01

Bases:

SA5000-200	Addressable XPERT 8 Mounting Base
45681-210	XP95 Mounting Base

Certificate No: 010bd to EN 54-5:2017+A1:2018

Certificated Products		LPCB Ref. No.
SA5100-400LST	Soteria Analogue Addressable Category P Heat Detector with Short Circuit Isolator (SA5000-200 and 45681-210 bases) Note: 1. Meets requirements of EN 54-5 for categories A1R, A2R, A2S, CR, CS, BR and BS.	010bd/01

Bases

FC600/B	Universal adaptor base
FC600/BR	Universal adaptor base with resistor
FC600/BRD	Universal adaptor base with resistor and Schottky diode
SA5000-200	Addressable XPERT 8 Mounting Base
45681-210	XP95 Mounting Base

Certificate No: 928k-(cl-10) to EN 54-7:2018, EN 54-25:2008

Certificated Products		LPCB Ref. No.
FI720/RF/O	Wireless Libra Addressable Optical Smoke Detector (WAB100 Base) Notes: 1. Meets the requirements of EN 54-7 at the following sensitivity settings: Level 1 - High Level 2 - Normal Level 3 - Low 2. The device must be used with the following battery type only: CR123A (3 Vdc) - Primary and Secondary Battery	928k/02

Bases

WAB100 Wireless Adaptor Base

A copy of the certificate, confirming the full scope of approval including notes relating to the superscript references in the above table, may be viewed online by clicking on the product name in the associated entry on www.RedBookLive.com

Certificate No: 928m-(cl-10) to EN 54-5:2017+A1:2018, EN 54-7:2018, EN 54-25:2008, CEA 4021:2003

Certificated Products		LPCB Ref. No.
FI720/RF/OT	Wireless Libra Addressable Multicriteria Detector (WAB100 Base) Notes: 1. Meets the requirements of EN 54-5 for Category A1R 2. Meets the requirements of EN 54-7 at the following sensitivity settings: Level 1 - High Level 2 - Normal Level 3 - Low 3. The device must be used with the following battery type only: CR123A (3 Vdc) - Primary and Secondary Battery	928m/02

Bases

WAB100 Wireless Adaptor Base

A copy of the certificate, confirming the full scope of approval including notes relating to the superscript references in the above table, may be viewed online by clicking on the product name in the associated entry on www.RedBookLive.com

---

Lichfield Fire & Safety Equipment Co. Ltd

Unit 8, Calibre Industrial Park, Laches Close, Four Ashes, Wolverhampton WV10 7DZ, United Kingdom
Tel: +44 (0) 1902 798 706 • Fax: +44 (0) 1902 798 679
E-mail: info@lifeco-uk.com • Website: www.lifeco-uk.com

Certificate No: 1330a-(cl-12) to EN 54-12:2015

Beam Detectors

Certificated Products		LPCB Ref. No.
LF-X5130	Conventional Reflective Beam Detector Notes: 1. Meets the requirements of EN 54-12: 2015 at the following sensitivity settings: - Level 1: 2.6 dB High sensitivity - Level 2: 3.8 dB Medium sensitivity	1330a/01

Certificated Products		LPCB Ref. No.
	- Level 3: 5.8 dB Low sensitivity 2. Suitable for use at the following separation ranges: - Span 1: 8 to 20 meters Short Path (1 x mirror reflector required) - Span 2: 20 to 40 meters Short Path (1 x mirror reflector required) - Span 3: 40 to 70 meters Normal Path (4 x mirror reflector required) - Span 4: 70 to 100 meters Long Path (4 x mirror reflector required)	

Mounting Bracket
LF-X5130-R (1 x Mirror)
LF-X5130-R (4 x Mirror)

A copy of the certificate, confirming the full scope of approval including notes relating to the superscript references in the above table, may be viewed online by clicking on the product name in the associated entry on www.RedBookLive.com

Certificate No: 1330j-(cl-6) to EN 54-29:2015

Certificated Products		LPCB Ref. No.
LF-X5120	Intelligent Multi-sensor Fire Detector (LF-X5980 Detector Base) Notes: Meets the requirements of EN 54-29 for Heat Category A2R	1330j/01

LF-X5980 Detector Base

A copy of the certificate, confirming the full scope of approval including notes relating to the superscript references in the above table, may be viewed online by clicking on the product name in the associated entry on www.RedBookLive.com

Certificate No: 1330b-(cl-7) to EN 54-7:2018

Photoelectric Smoke Detectors

Certificated Products		LPCB Ref. No.
LF-X5100	Intelligent Smoke Detector (LF-X5980 base)	1330b/01

LF-X5980 Detector Base

A copy of the certificate, confirming the full scope of approval including notes relating to the superscript references in the above table, may be viewed online by clicking on the product name in the associated entry on www.RedBookLive.com

Certificate No: 1330c-(cl-7) to EN 54-5:2017 + A1:2018

Certificated Products		LPCB Ref. No.
LF-X5110	Intelligent Heat Detector (LF-X5980 Detector Base) Note: 1. Meets the requirements of EN 54-5 for Category A1R	1330c/01

LF-X5980 Detector Base

A copy of the certificate, confirming the full scope of approval including notes relating to the superscript references in the above table, may be viewed online by clicking on the product name in the associated entry on www.RedBookLive.com

---

Mavili Elektronik Ticaret Ve Sanayi A.S.

Serifali Mah, Kutup Sok, No: 27:, 1-2-4 Ümraniye, Istanbul TR 34775, Turkey
Tel: +90 216 4664 505 • Fax: +90 216 4664 510
E-mail: mavili@mavili.com.tr • Website: www.mavili.com.tr

Certificate No: 926a to EN 54-7:2018

Point Smoke Detectors

Certificated Products		**LPCB Ref. No.**
MG-9100	Intelligent analogue addressable system photoelectric smoke detector (MG-3510 base)	926a/01
MGR-2100	MaviGard Conventional Photo-Electric Smoke Detector with Relay Output (MG-3550 base) *Note:* *1. Meets the requirements of EN 54-7:2018 at the default sensitivity* *2. The relay output is not certified to EN 54-18:2005*	926a/02
ML-2110	Maxlogic Conventional System Photoelectric Smoke Detector (ML-0140, ML-0121, ML-0150)	926a/03
ML-1110	Maxlogic Intelligent Analogue Addressable System Photoelectric Smoke Detector (ML-0140, ML-0121 and ML-0150 bases)	926a/04

Bases:
MG-3510 Standard Mounting Base
MG-3550 Mavigard Detector Mounting Base
ML-0140 MaxLogic Detector Base
ML-0121 Weatherproof Surface Mounting Back Box
ML-0150 Recessed Mounting Base
A copy of the certificate, confirming the full scope of approval including notes relating to the superscript references in the above table, may be viewed online by clicking on the product name in the associated entry on www.RedBookLive.com

Certificate No: 926b to EN 54-5:2017 + A1:2018

Point Heat Detectors

Certificated Products		**LPCB Ref. No.**
MG-9300	Intelligent analogue addressable system class A1R rate of rise heat detector (MG-3510 base)	926b/01
ML-2120	Maxlogic Conventional System A1S Fixed Heat Detector (ML-0140, ML-0121, ML-0150)	926b/02
ML-2130	Maxlogic Conventional System A1R Rate of Rise Heat Detector (ML-0140, ML-0121, ML-0150)	926b/03
ML-1130	Maxlogic Intelligent Analogue Addressable System A1R Rate of Rise Heat Detector (ML-0140, ML-0121, ML-0150 bases)	926b/05

Bases:
MG-3510 Standard Mounting Base
ML-0140 MaxLogic Detector Mounting Base
ML-0121 Weatherproof Surface Mounting Back Box
ML-0150 Recessed Mounting Base

A copy of the certificate, confirming the full scope of approval including notes relating to the superscript references in the above table, may be viewed online by clicking on the product name in the associated entry on www.RedBookLive.com

Certificate No: 926c to EN 54-5:2017 + A1: 2018, EN 54-7:2018 & CEA 4021:2003

Multi-criteria Detectors

Certificated Products		**LPCB Ref. No.**
MG-9400	Intelligent Analogue Addressable System Class A1R Multisensor Detector (MG-3510 base)	926c/01
ML-1140	Maxlogic Intelligent Analogue Addressable System Class A1R Multisensor (Photoelectric Smoke + Heat) Detector (ML-0140, ML-0121 and ML-0150)	926c/02

Bases:
MG-3510 Standard Mounting Base
MG-3550 Mavigard Detector Mounting Base
ML-0140 MaxLogic Detector Mounting Base
ML-0121 Weatherproof Surface Mounting Back Box
ML-0150 Recessed Mounting Base

A copy of the certificate, confirming the full scope of approval including notes relating to the superscript references in the above table, may be viewed online by clicking on the product name in the associated entry on www.RedBookLive.com

Certificate No: 926m to EN 54-12:2015 & EN 54-17:2005

Beam Detectors

Certificated Products		LPCB Ref. No.
ML-1170.SCI	Maxlogic Intelligent Analogue Addressable Beam Type Smoke Detector with Short Circuit Isolator (incorporating ML-1171 & ML-1172) *Notes:* *1. Meets the requirements of EN 54-12:2015 at the sensitivity setting 25% obscuration.* *2. Suitable for use at the following Optical way distance settings:* *- 1: 5 to 25 metres* *- 2: 25 to 50 metres* *- 3: 50 to 75 metres* *- 4: 75 to 100 metres*	926m/01
ML-1173.SCI	Maxlogic Intelligent Analogue Addressable Reflector Beam Type Smoke Detector with Short Circuit Isolator (incorporating ML-0171 or ML-0174) *Notes:* *1. Meets the requirements of EN 54-12:2015 at the sensitivity setting 25% obscuration.* *2. Suitable for use at the following distances:* *- 5 to 35 metres using one reflector panel* *- 35 to 50 metres using four reflector panels*	926m/02

Ancillaries

ML-0171	Single Reflector Panel
ML-0174	4 x Single Reflector Panel
ML-1171	Receiver
ML-1172	Transmitter

A copy of the certificate, confirming the full scope of approval including notes relating to the superscript references in the above table, may be viewed online by clicking on the product name in the associated entry on www.RedBookLive.com

Certificate No: 926w to EN 54-7:2018, EN 54-17:2005

Certificated Products		LPCB Ref. No.
ML-1110.SCI	Maxlogic Intelligent Analogue Addressable System Photoelectric Smoke Detector with Short Circuit Isolator (ML-0121, ML-0140 and ML-150 bases)	926w/01

Bases

ML-0121	Weatherproof Surface Mounting Back Box
ML-0140	Maxlogic Detector Mounting Base
ML-0150	Recessed Mounting Base

A copy of the certificate, confirming the full scope of approval including notes relating to the superscript references in the above table, may be viewed online by clicking on the product name in the associated entry on www.RedBookLive.com

Certificate No: 926y to EN 54-5:2017 + A1:2018, EN 54-17:2005

Certificated Products		LPCB Ref. No.
ML-1130.SCI	Maxlogic Intelligent Analogue Addressable System A1R Rate of Rise Heat Detector with Short Circuit Isolator (ML-0121, ML-0140 and ML-150 bases)	926y/02

Bases

ML-0121	Weatherproof Surface Mounting Back Box
ML-0140	Maxlogic Detector Mounting Base
ML-0150	Recessed Mounting Base

A copy of the certificate, confirming the full scope of approval including notes relating to the superscript references in the above table, may be viewed online by clicking on the product name in the associated entry on www.RedBookLive.com

Certificate No: 926z to EN 54-5:2017 + A1:2018, EN 54-7:2018, EN 54-17:2005, CEA 4021:2003

Certificated Products		LPCB Ref. No.
ML-1140.SCI	Maxlogic Intelligent Analogue Addressable System Class A1R Multisensor (Photoelectric Smoke + Heat) Detector with Short Circuit Isolator (ML-0121, ML-0140 and ML-150 bases)	926z/01

Bases

ML-0121 Weatherproof Surface Mounting Back Box
ML-0140 Maxlogic Detector Mounting Base
ML-0150 Recessed Mounting Base

A copy of the certificate, confirming the full scope of approval including notes relating to the superscript references in the above table, may be viewed online by clicking on the product name in the associated entry on www.RedBookLive.com

Certificate No: 926p to EN 54-5:2017 + A1:2018

Certificated Products		LPCB Ref. No.
MGR-2500	MaviGard Conventional Multisensor (Photoelectric Smoke & Heat) Detector with Relay Output (MG-3550 base) Notes: 1. Meets the requirements of EN 54-5:2017 + A1:2018 at Class A1R 2. Meets the requirements of EN 54-7:2018 at the default sensitivity The relay output is not certified to EN 54-18:2005	926p/01
ML-2140	Maxlogic Conventional System Multisensor (Photoelectric Smoke & Heat) Detector (ML-0140, ML-0121, ML-0150) Notes: 1. Meets the requirement of EN 54-5:2017 + A1:2018 at Class A1R 2. Meets the requirement of EN 54-7:2018 at the default sensitivity	926p/02

Base

MG-3550 Mavigard Detector Mounting Base
ML-0140 Maxlogic Detector Base
ML-0121 Surface Mounting Back Box
ML-0150 Recessed Mounting Base

A copy of the certificate, confirming the full scope of approval including notes relating to the superscript references in the above table, may be viewed online by clicking on the product name in the associated entry on www.RedBookLive.com

Certificate No: 926j to EN 54-12:2015

Certificated Products		LPCB Ref. No.
ML-2170	Maxlogic Conventional Beam Type Smoke Detector (incorporating ML-2171 & ML-2172) Notes: 1. Meets the requirements of EN 54-12:2015 at the sensitivity setting 25% obscuration. 2. Suitable for use at the following Optical way distance settings: • 1: 5 to 25 metres • 2: 25 to 50 metres • 3: 50 to 75 metres • 4: 75 to 100 metres	926j/01
ML-2173	Maxlogic Conventional Reflector Beam Type Smoke Detector (incorporating ML-0171 or ML-0174) Notes: 1. Meets the requirements of EN 54-12:2015 at the sensitivity setting 25% obscuration. 2. Suitable for use at the following distances: • 5 to 35 metres using one reflector panel • 35 to 50 metres using four reflector panels	926j/02

Ancillaries

ML-0171	Single Reflector Panel
ML-0174	4 x Single Reflector Panel
ML-2171	Receiver
ML-2172	Transmitter

A copy of the certificate, confirming the full scope of approval including notes relating to the superscript references in the above table, may be viewed online by clicking on the product name in the associated entry on www.RedBookLive.com

---

Max Technologies S.A.

Rua dos Lagos, 545, Vila Nova de Gaia, 4405875, Portugal
Tel: +351-227664530
E-mail: info@maxtechnologies.pt • Website: www.maxtechnologies.pt

Certificate No: 1330a-(cl-10) to EN 54-12: 2015

Certificated Products		LPCB Ref. No.
FBR-100R	Conventional Reflective Beam Detector *Notes:* *1. Meets the requirements of EN 54-12: 2015 at the following sensitivity settings:* *- Level 1: 2.6 dB High sensitivity* *- Level 2: 3.8 dB Medium sensitivity* *- Level 3: 5.8 dB Low sensitivity* *2. Suitable for use at the following separation ranges:* *- Span 1: 8 to 20 meters Short Path (1 x mirror reflector required)* *- Span 2: 20 to 40 meters Short Path (1 x mirror reflector required)* *- Span 3: 40 to 70 meters Normal Path (4 x mirror reflector required)* *- Span 4: 70 to 100 meters Long Path (4 x mirror reflector required)*	1330a/01

Accessories
Mounting Bracket
FBR-100R-R 1 x Mirror Reflector
FBR-100R-R 4 x Mirror Reflector

A copy of the certificate, confirming the full scope of approval including notes relating to the superscript references in the above table, may be viewed online by clicking on the product name in the associated entry on www.RedBookLive.com

---

Morley-IAS by Honeywell, Pittway Tecnologica Srl

Via Caboto 19/3, Trieste 34147, Italy
Tel: +44 (0)1444 230300 • Fax: +44 (0)1444 230888
E-mail: sales@morleyias.co.uk • Website: www.morley-ias.co.uk

Certificate No: 199n-(cl-3) to EN 54-5: 2017 + A1: 2018

Point Heat Detectors

Certificated Products		LPCB Ref. No.
MI-RHSE-S2	Analogue addressable Category A1R rate of rise heat sensor (B501AP, B501, B524IEFT-1, B524HTR and B524RTE bases)	199n/15
MI-HTSE-S2	Analogue addressable Category BS fixed temperature heat sensor (B501AP, B501, B524IEFT-1, B524HTR and B524RTE bases)	199n/16
MI-FHSE-S2	Analogue addressable Category A1S fixed temperature heat sensor (B501AP, B501, B524IEFT-1, B524HTR and B524RTE bases)	199n/17

Bases:
B501 standard analogue detector base
B501DG analogue deep base
B524IEFT analogue short circuit isolator base
B501AP intelligent sensor base
B524IEFT-1 short circuit isolator
B524HTR heater base
B524RTE latching relay base

HRZ-1000BSD standard base with Schottky diode
A copy of the certificate, confirming the full scope of approval including notes relating to the superscript references in the above table, may be viewed online by clicking on the product name in the associated entry on www.RedBookLive.com

Certificate No: 199p-(cl-3) to EN 54-5: 2017 + A1: 2018, EN 54-7: 2018 & CEA 4021: 2003

Multi-criteria Detectors

Certificated Products		LPCB Ref. No.
MI-PTSE-S2	Analogue addressable photo-thermal multi-criteria sensor (B501AP, B501, B524IEFT-1, B524HTR and B524RTE bases) *Note: Certified at the following settings: -* *Alarm levels 1 to 5 (Multi-criteria): EN 54-5 Category A1R, EN 54-7 & CEA 4021: 2003* *Alarm level 6 (Heat only mode): EN 54-5 Category A1R*	199p/07

Bases:
B501 standard analogue detector base
B501AP intelligent detector base
B501DG analogue sensor deep base
B524IEFT analogue short circuit isolator base
B524IEFT-1 analogue sensor short circuit isolator base
B524HTR heater base
B524RTE latching relay base
HRZ-1000BSD standard base with Schottky diode
A copy of the certificate, confirming the full scope of approval including notes relating to the superscript references in the above table, may be viewed online by clicking on the product name in the associated entry on www.RedBookLive.com

Certificate No: 199m-(cl-3) to EN 54-7: 2018

Point Smoke Detectors

Certificated Products		LPCB Ref. No.
MI-PSE-S2	Analogue addressable optical smoke sensor (B501AP, B501, B524IEFT-1, B524HTR and B524RTE bases) *Note: Meets the requirements of EN 54-7 at high and low sensitivity*	199m/10

Bases:
B501 analogue detector base
B501DG analogue deep base
B524IEFT analogue short circuit isolator base
B501AP intelligent sensor base
B524IEFT-1 short circuit isolator base
B524HTR heater base
B524RTE latching relay base
HRZ-1000BSD standard base with Schottky diode
A copy of the certificate, confirming the full scope of approval including notes relating to the superscript references in the above table, may be viewed online by clicking on the product name in the associated entry on www.RedBookLive.com

Beam Detectors

Certificate No: 199ae-(cl-1) to EN54-17: 2005 & EN54-20: 2006

Aspirating Smoke Detectors

Certificated Products		LPCB Ref. No.
MI-FL2011EI-HS	Analogue Addressable Single Channel Loop-Based Aspirating Detector (F-INF-25 In line filter) *Notes:* *1. For compliance with Clause 5.10 of EN54-20: 2006, all detectors and displays shall be supplied with power from a power supply conforming with the requirements of EN 54-4.* *2. The device is approved for sensitivity Classes A, B and C. The Class of any pipework and hole configuration, detector sensitivity and equipment parameters must be determined using PipeIQ software.* *3. The approval of the detector is conditional upon the following requirements:*	199ae/01

Certificated Products		LPCB Ref. No.
	• *Design including accessories used, installation and commissioning are performed in accordance with the Advanced Set-up and Control Guide (I56-3888-xxx)*	
MI-FL2012EI-HS	Analogue Addressable Loop-Based Single Channel Unit Common Chamber Aspirating Detector, Dual Sensors (F-INF-25 In line filter) *Notes:* *1. This device has single channel capability with two high sensitivity smoke sensors in a common chamber.* *2. For compliance with Clause 5.10 of EN54-20: 2006, all detectors and displays shall be supplied with power from a power supply conforming with the requirements of EN 54-4.* *3. The device is approved for sensitivity Classes A, B and C. The Class of any pipework and hole configuration, detector sensitivity and equipment parameters must be determined using PipeIQ software.* *4. The approval of the detector is conditional upon the following requirements:* • *Design including accessories used, installation and commissioning are performed in accordance with the Advanced Set-up and Control Guide (I56-3888-xxx).*	199ae/02
MI-FL2022EI-HS	Analogue Addressable Dual Channel Loop-Based Aspirating Detector, Dual Sensors (F-INF-25 In line filter) *Notes:* *1. For compliance with Clause 5.10 of EN54-20: 2006, all detectors and displays shall be supplied with power from a power supply conforming with the requirements of EN 54-4.* *2. The device is approved for sensitivity Classes A, B and C. The Class of any pipework and hole configuration, detector sensitivity and equipment parameters must be determined using PipeIQ software.* *3. The approval of the detector is conditional upon the following requirements:* • *Design including accessories used, installation and commissioning are performed in accordance with the Advanced Set-up and Control Guide (I56-3888-xxx).*	199ae/03

Accessories
F-INF-25 In line filter

A copy of the certificate, confirming the full scope of approval including notes relating to the superscript references in the above table, may be viewed online by clicking on the product name in the associated entry on www.RedBookLive.com

Certificate No: 199ac-(cI-3) to EN 54-5: 2017 + A1: 2018 & EN 54-17: 2005

Heat Detectors

Certificated Products		LPCB Ref. No.
MI-FHSE-S2I	Analogue addressable Category A1S fixed temperature heat sensor with short circuit isolator (B501AP, B524HTR and B524RTE bases)	199ac/01
MI-HTSE-S2I	Analogue addressable Category BS fixed temperature heat sensor with short circuit isolator (B501AP, B524HTR and B524RTE bases)	199ac/02
MI-RHSE-S2I	Analogue addressable Category A1R rate of rise heat sensor with short circuit isolator (B501AP, B524HTR and B524RTE bases)	199ac/03

Bases:
B501AP intelligent sensor base
B524HTR heater base
B524RTE latching relay base

A copy of the certificate, confirming the full scope of approval including notes relating to the superscript references in the above table, may be viewed online by clicking on the product name in the associated entry on www.RedBookLive.com

Certificate No: 199aa-(cI-3) to EN 54-5: 2017 + A1: 2018, EN 54-7: 2018, CEA 4021: 2003 & EN 54-17: 2005

Multi-Sensor/Multi-Criteria Detectors

Certificated Products		LPCB Ref. No.
MI-PTIR-S2I	Analogue addressable photo-thermal-IR multi-criteria smoke sensor with short circuit isolator (B501AP, B524HTR and B524RTE bases) Note: Certified at the following settings: - Alarm levels 1 to 5 (Multi-criteria): EN 54-5 Category A1R, EN 54-7 & CEA 4021: 2003	199aa/01

Certificated Products		LPCB Ref. No.
	Alarm level 6 (Heat only mode): EN 54-5 Category A1R	
MI-PTSE-S2I	Analogue addressable photo-thermal multi-criteria smoke sensor with short circuit isolator (B501AP, B524HTR and B524RTE bases) Note: Certified at the following settings: - Alarm levels 1 to 5 (Multi-criteria): EN 54-5 Category A1R, EN 54-7 & CEA 4021: 2003 Alarm level 6 (Heat only mode): EN 54-5 Category A1R	199aa/02

Bases:
B501AP intelligent sensor base
B524HTR heater base
B524RTE latching relay base

A copy of the certificate, confirming the full scope of approval including notes relating to the superscript references in the above table, may be viewed online by clicking on the product name in the associated entry on www.RedBookLive.com

Certificate No: 199ab-(cl-3) to EN 54-7: 2018 & EN 54-17: 2005

Multi-Sensor/Multi-Criteria Detectors

Certificated Products		LPCB Ref. No.
MI-PSE-S2I	Analogue addressable optical smoke sensor with short circuit isolator (B501AP, B524HTR and B524RTE bases) Note: Meets the requirements of EN 54-7 at high and low sensitivity	199ab/01
MI-LZR-S3I	High Sensitivity Point Optical Smoke Detector with Short Circuit Isolator (B501AP) Note: 1. Meets the requirements of EN 54-7 at high sensitivity	199ab/02

Bases:
B501AP intelligent sensor base
B524HTR heater base
B524RTE latching relay base

A copy of the certificate, confirming the full scope of approval including notes relating to the superscript references in the above table, may be viewed online by clicking on the product name in the associated entry on www.RedBookLive.com

---

Multron Systems Pte Ltd

217 Kallang Bahru #02-00, Multron Building, Singapore 339 347, Singapore
Tel: +65 6743 2555 / 6395 6868 • Fax: +65 6743 2777 / 6395 6869
E-mail: info@multron.com • Website: www.multron.com

Certificate No: 1148a to EN 54-5:2017 + A1:2018

Heat Detectors

Certificated Products		LPCB Ref. No.
DET-C632	Conventional Rate of Rise & Fixed Temperature Heat Detector(DB-6 standard base) *Note:* *Meets the requirements of EN 54-5 at Category A2R*	1148a/01

Bases:
DZ-03 Standard detector base
DB-6 Standard detector base
DB1 Mounting base
MX980 Base
A copy of the certificate, confirming the full scope of approval including notes relating to the superscript references in the above table, may be viewed online by clicking on the product name in the associated entry on www.RedBookLive.com

Certificate No: 1148b to EN 54-7:2018

Photoelectric Smoke Detectors

Certificated Products		LPCB Ref. No.
DET-C631	Conventional Optical Smoke Detector	1148b/01

Certificated Products		LPCB Ref. No.
	(DB-6 Standard base) *Note:* *Meets the requirements of EN 54-7 in the normal sensitivity setting.*	

Bases:
DZ-03 Standard detector base
DB-6 Standard detector base
DB1 Mounting base
MX980 Base

A copy of the certificate, confirming the full scope of approval including notes relating to the superscript references in the above table, may be viewed online by clicking on the product name in the associated entry on www.RedBookLive.com

Certificate No: 1330a-(cl-2) to EN 54-12:2015

Beam Detectors

Certificated Products		LPCB Ref. No.
DET 640RB	Conventional Reflective Beam Detector *Notes:* *1. Meets the requirements of EN 54-12: 2015 at the following sensitivity settings:* *- Level 1: 2.6 dB High sensitivity* *- Level 2: 3.8 dB Medium sensitivity* *- Level 3: 5.8 dB Low sensitivity* *2. Suitable for use at the following separation ranges:* *- Span 1: 8 to 20 meters Short Path (1 x mirror reflector required)* *- Span 2: 20 to 40 meters Short Path (1 x mirror reflector required)* *- Span 3: 40 to 70 meters Normal Path (4 x mirror reflector required)* *- Span 4: 70 to 100 meters Long Path (4 x mirror reflector required)*	1330a/01

Accessories
Mounting Bracket
DET-640RB-R 1 x Mirror Reflector
DET-640RB-R 4 x Mirror Reflector
A copy of the certificate, confirming the full scope of approval including notes relating to the superscript references in the above table, may be viewed online by clicking on the product name in the associated entry on www.RedBookLive.com

Certificate No: 1330j-(cl-3) to EN 54-29:2015

Certificated Products		LPCB Ref. No.
MX120	Intelligent Multi-sensor Fire Detector (MX980 Base) *Notes:* *Meets the requirements of EN 54-29 for Heat Category A2R*	1330j/01

Base
MX980
A copy of the certificate, confirming the full scope of approval including notes relating to the superscript references in the above table, may be viewed online by clicking on the product name in the associated entry on www.RedBookLive.com

Certificate No: 1330c-(cl-3) to EN 54-5:2017+A1:2018

3

Certificated Products		LPCB Ref. No.
MX110	Intelligent Heat Detector (MX980 base) Note: 1 Meets the requirements of EN 54-5 for Category A1R	1330c/01

Base

MX980 Base

A copy of the certificate, confirming the full scope of approval including notes relating to the superscript references in the above table, may be viewed online by clicking on the product name in the associated entry on www.RedBookLive.com

Certificate No: 1330b-(cl-3) to EN 54-7:2018

Certificated Products		LPCB Ref. No.
MX100	Intelligent Smoke Detector (MX980 base)	1330b/01

Base

MX980 Base

A copy of the certificate, confirming the full scope of approval including notes relating to the superscript references in the above table, may be viewed online by clicking on the product name in the associated entry on www.RedBookLive.com

---

Nittan Europe Limited

Hipley Street, Old Woking, Surrey GU22 9LQ, United Kingdom
Tel: +44 (0)1483 769555/8 • Fax: +44 (0)1483 756686
E-mail: sales@nittan.co.uk • Website: www.nittan.co.uk

Certificate No: 041f to EN54-7:2018

Point Smoke Detectors

Certificated Products		LPCB Ref. No.
EV-P	Analogue Addressable Optical Smoke Detector (UB-4,UB-4-EV, STB-4SE-EV and UB-6-EV bases) *Note: Meets the requirements of EN 54-7 at 'Lowest' and 'Highest' sensitivity settings only.*	041f/01
EVC-P	Conventional Optical Smoke Detector (STB-4SE-24VR, STB-4SE, UB-4, UB-4-EV, UB-4SD, STB-4SE-EV and UB-6-EV bases)	041f/03

Bases

STB-4SE-EV	Standard Deep Mounting base
STB-4SE	Standard Deep mounting base
STB-4SE-24VR	Relay Mounting base
UB-4	Universal Mounting base
UB-4-EV	Universal Mounting base
UB-4SD	Mounting base with Schottky Diode
UB-4R-470	Standard base with 470 ohm Resistor
UB-4SDR-470	Standard base with Schottky diode and 470 ohm Resistor

UB-6-EV Universal Mounting base

A copy of the certificate, confirming the full scope of approval including notes relating to the superscript references in the above table, may be viewed online by clicking on the product name in the associated entry on www.RedBookLive.com

Certificate No: 041h to EN 54-5:2017 + A1:2018

Point Heat Detectors

Certificated Products		LPCB Ref. No.
EV-H-A1R	Analogue Addressable Category A1R Heat Detector (UB-4,UB-4-EV, STB-4SE-EV and UB-6-EV bases)	041h/01
EV-H-CS	Analogue Addressable Category CS Heat Detector(UB-4,UB-4-EV, STB-4SE-EV and UB-6-EV bases)	041h/02
EVC-H-A2S	Conventional Category A2S Heat Detector(UB-4,UB-4-EV,UB-4SD, STB-4SE-EV and UB-6-EV bases)	041h/03
EVC-H-CS	Conventional Category CS Heat Detector(UB-4,UB-4-EV,UB-4SD, STB-4SE-EV and UB-6-EV bases)	041h/04

Bases

UB-4 Universal base
UB-4-EV Universal base
UB-4SD Universal base with Shottky diode
UB-6-EV Universal Mounting base
STB-4SE-EV mounting base

A copy of the certificate, confirming the full scope of approval including notes relating to the superscript references in the above table, may be viewed online by clicking on the product name in the associated entry on www.RedBookLive.com

Certificate No: 041g to EN 54-5:2017 + A1:2018, EN 54-7:2018 and CEA4021:1999

Multi-criteria Detectors

Certificated Products		LPCB Ref. No.
EV-PH	Analogue Addressable Optical Smoke and Category A1R Heat Detector (UB-4,UB-4-EV, STB-4SE-EV and UB-6-EV bases) *Note: Meets the requirements of EN 54-7 at 'Lowest' and 'Highest' sensitivity settings.*	041g/01

Bases
UB-4 Universal base
UB-4-EV Universal base
UB-6-EV Universal Mounting base
STB-4SE-EV mounting base

A copy of the certificate, confirming the full scope of approval including notes relating to the superscript references in the above table, may be viewed online by clicking on the product name in the associated entry on www.RedBookLive.com

Certificate No: 755a-(cl-1) to EN 54-7:2018

Certificated Products		LPCB Ref. No.
EVC-DP	Conventional Dual Optical Smoke Detector (STB-4, STB-4SD, STB-4SE, STB-4SE-24VR, UB-4 and UB-5 bases)	755a/01

Bases:
STB-4 Standard Mounting Base
STB-4SD Standard Deep Mounting Base
STB-4SE Schottky Diode Mounting Base
STB-4SE-24VR Relay Mounting Base
UB-4 Universal Mounting Base 4 Terminal
UB-5 Universal Mounting Base 5 Terminal
A copy of the certificate, confirming the full scope of approval including notes relating to the superscript references in the above table, may be viewed online by clicking on the product name in the associated entry on www.RedBookLive.com

Certificate No: 1461a-(cl-1) to EN 54-7:2018

Certificated Products		LPCB Ref. No.
EVC-P	Conventional Optical Smoke Detector (STB-4SE-24VR, STB-4SE ,STB-4SE-EV, UB-4, UB-4-EV, UB-4SD bases, and UB-6-EV bases)	1461a/01
ST-P-OM	Conventional Optical Smoke Detector (STB-4SE-24VR, STB-4SE, STB-4SE-EV, UB-4 , UB-4R-470, UB-4SDR-470 and UB-6-EV bases)	1461a/02
ST-PY-AS	Analogue Addressable Photoelectric Smoke Detector (STB-4SE, UB-4 and UB-6-EV bases) Note: 1. Meets the requirements of EN 54-7 at 'Lowest' and 'Highest' sensitivity settings.	1461a/03
EV-P	Analogue Addressable Photoelectric Smoke Detector (STB-4SE-EV, UB-4, UB-4-EV and UB-6-EV bases) Note: 1. Meets the requirements of EN 54-7 at 'Lowest' and 'Highest' sensitivity settings.	1461a/04

Bases

STB-4SE-EV	Standard deep mounting base
STB-4SE	Standard deep mounting base
STB-4SE-24VR	Relay mounting base
UB-4	Universal mounting base
UB-4-EV	Universal mounting base
UB-4SD	Mounting base with schottky diode
UB-6-EV	Universal mounting base

A copy of the certificate, confirming the full scope of approval including notes relating to the superscript references in the above table, may be viewed online by clicking on the product name in the associated entry on www.RedBookLive.com

Certificate No: 1461b-(cl-1) to EN 54-5:2017 + A1:2018, EN 54-7:2018, CEA4021:1999

Certificated Products		LPCB Ref. No.
EV-PH	Analogue Addressable Optical Smoke and Category A1R Heat Detector (UB-4, UB-4-EV, STB-4SE-EV and UB-6-EV bases) Note: Meets the requirements of EN 54-7 at Lowest and Highest sensitivity settings.	1461b/01

Bases

UB-4	Universal mounting base
UB-4-EV	Universal mounting base
STB-4SE-EV	Standard deep mounting base
UB-6-EV	Universal mounting base

A copy of the certificate, confirming the full scope of approval including notes relating to the superscript references in the above table, may be viewed online by clicking on the product name in the associated entry on www.RedBookLive.com

Certificate No: 1461c-(cl-1) to EN 54-5:2017 + A1:2018

Certificated Products		LPCB Ref. No.
EVC-H-A2S	Conventional Category A2S Heat Detector (UB-4,UB-4-EV,UB-4SD, STB-4SE-EV and UB-6-EV bases)	1461c/01
EVC-H-CS	Conventional Category CS Heat Detector (UB-4,UB-4-EV,UB-4SD, STB-4SE-EV and UB-6-EV bases)	1461c/02
EV-H-A1R	Analogue Addressable Category A1R Heat Detector (UB-4,UB-4-EV, STB-4SE-EV and UB-6-EV bases)	1461c/03
EV-H-CS	Analogue Addressable Category CS Heat Detector (UB-4,UB-4-EV, STB-4SE-EV and UB-6-EV bases)	1461c/04

Bases

UB-4	Universal mounting base
UB-4-EV	Universal mounting base
UB-4SD	Mounting base with schottky diode
UB-6-EV	Universal mounting base
STB-4SE-EV	Standard deep mounting base

A copy of the certificate, confirming the full scope of approval including notes relating to the superscript references in the above table, may be viewed online by clicking on the product name in the associated entry on www.RedBookLive.com

Notifier by Honeywell, Pittway Tecnologica Srl

Via Caboto 19/3, Trieste 34147, Italy
Tel: +44 (0)1444 230300 • Fax: +44 (0)1444 230888
E-mail: sales@notifiersystems.co.uk • Website: www.notifierfiresystems.co.uk

Certificate No: 199m-(cl-4) to EN 54-7: 2018

Point Smoke Detectors

Certificated Products		LPCB Ref. No.
SD-851E	Conventional photoelectric smoke detector (B401 base)	199m/03
IDX-751 AE	Intrinsically safe analogue addressable photoelectric smoke detector (B501, B501AP bases) *Note: Meets EN54-7 at High, Normal & Low sensitivity settings*	199m/07
NFX-OPT	Analogue addressable optical smoke sensor (B501AP, B501, B524IEFT-1, B524HTR & B524RTE bases) *Note: Meets the requirements of EN 54-7 at high and low sensitivity*	199m/10

Bases:
B501 base
B401 base

B501DG deep base
B5241EFT short circuit isolator base
B524IEFT-1 analogue short circuit isolator base
B524HTR heater base
B524RTE latching relay base
B501AP Intelligent detector base
A copy of the certificate, confirming the full scope of approval including notes relating to the superscript references in the above table, may be viewed online by clicking on the product name in the associated entry on www.RedBookLive.com

Certificate No: 199n-(cl-4) to EN 54-5: 2017 + A1: 2018

Heat Detectors

Certificated Products		LPCB Ref. No.
FD-851RE	Conventional Category A1R rate of rise heat detector (B401 base)	199n/07
FD-851HTE	Conventional Category BS heat detector (B401 base)	199n/08
FD-851TE	Conventional Category A2S Fixed Temperature Heat Detector (B401, B401R, B401SD, B401RSD, B401DG, B401DGR, B401DGSD and B401DGRSD bases)	199n/14
NFX-TDIFF	Analogue addressable Category A1R rate of rise heat sensor (B501AP, B501, B524IEFT-1, B524HTR & B524RTE bases)	199n/15
NFX-TFIX78	Analogue addressable Category BS fixed temperature heat sensor (B501AP, B501, B524IEFT-1, B524HTR & B524RTE bases)	199n/16
NFX-TFIX58	Analogue addressable Category A1S fixed temperature heat sensor (B501AP, B501, B524IEFT-1, B524HTR & B524RTE bases)	199n/17

Bases:
B501 base
B401 base
B401R standard base with resistor
B401RSD standard base with resistor and schottky diode
B401SD standard base with schottky diode
B401DG deep base
B501AP intelligent sensor base
B524IEFT-1 analogue short circuit isolator base
B524HTR heater base
B524RTE latching relay base
A copy of the certificate, confirming the full scope of approval including notes relating to the superscript references in the above table, may be viewed online by clicking on the product name in the associated entry on www.RedBookLive.com

Certificate No: 199p-(cl-4) to EN 54-5: 2017 + A1: 2018, EN 54-7: 2018 & CEA 4021: 2003

Multi-criteria Detectors

Certificated Products		LPCB Ref. No.
SD-851TE	Conventional photoelectric/thermal detector (B401 base) *Note: Meets the requirements of EN54-7 at "High", 'Medium' and 'Low' sensitivity settings*	199p/03
NFX-SMT3	Analogue addressable photo-thermal-IR multi-criteria sensor (B501AP, B501, B524IEFT-1, B524HTR & B524RTE bases) *Note: Certified at the following settings: -* Alarm levels 1 to 5 (Multi-criteria): EN 54-5 Category A1R, EN 54-7 & CEA 4021: 2003 Alarm level 6 (Heat only mode): EN 54-5 Category A1R	199p/06
NFX-SMT2	Analogue addressable photo-thermal multi-criteria sensor (B501AP, B501, B524IEFT-1, B524HTR & B524RTE bases) *Note: Certified at the following settings: -* Alarm levels 1 to 5 (Multi-criteria): EN 54-5 Category A1R, EN 54-7 & CEA 4021: 2003 Alarm level 6 (Heat only mode): EN 54-5 Category A1R	199p/07

Bases:
B501 base
B401 base
B501DG deep base
B524IEFT-1 analogue short circuit isolator base
B501AP intelligent sensor base
B524HTR heater base
B524RTE latching relay base
A copy of the certificate, confirming the full scope of approval including notes relating to the superscript references in the above table, may be viewed online by clicking on the product name in the associated entry on www.RedBookLive.com

Certificate No: 199af-(cl-1) to EN54-17: 2005 & EN54-20: 2006

Aspirating Smoke Detectors

Certificated Products		LPCB Ref. No.
NFXI-ASD11-HS	Analogue Addressable Single Channel Loop-Based Aspirating Detector (F-INF-25 In line filter) *Notes:* *1. For compliance with Clause 5.10 of EN54-20:2006, all detectors and displays shall be supplied with power from a power supply conforming with the requirements of EN 54-4.* *2. The device is approved for sensitivity Classes A, B and C. The Class of any pipework and hole configuration, detector sensitivity and equipment parameters must be determined using PipeIQ software.* *3. The approval of the detector is conditional upon the following requirements:* *- Design including accessories used, installation and commissioning are performed in accordance with the Advanced Set-up and Control Guide (I56-3888-xxx).*	199af/01
NFXI-ASD12-HS	Analogue Addressable Loop-Based Single Channel Unit Common Chamber Aspirating Detector, Dual Sensors (F-INF-25 In line filter) *Notes:* *1. For compliance with Clause 5.10 of EN54-20:2006, all detectors and displays shall be supplied with power from a power supply conforming with the requirements of EN 54-4.* *2. The device is approved for sensitivity Classes A, B and C. The Class of any pipework and hole configuration, detector sensitivity and equipment parameters must be determined using PipeIQ software.* *3. The approval of the detector is conditional upon the following requirements:* *- Design including accessories used, installation and commissioning are performed in accordance with the Advanced Set-up and Control Guide (I56-3888-xxx).*	199af/02
NFXI-ASD22-HS	Analogue Addressable Dual Channel Loop-Based Aspirating Detector, Dual Sensors (F-INF-25 In line filter) *Notes:* *1. For compliance with Clause 5.10 of EN54-20:2006, all detectors and displays shall be supplied with power from a power supply conforming with the requirements of EN 54-4.* *2. The device is approved for sensitivity Classes A, B and C. The Class of any pipework and hole configuration, detector sensitivity and equipment parameters must be determined using PipeIQ software.* *3. The approval of the detector is conditional upon the following requirements:* *- Design including accessories used, installation and commissioning are performed in accordance with the Advanced Set-up and Control Guide (I56-3888-xxx).*	199af/03

F-INF-25 In line filter

A copy of the certificate, confirming the full scope of approval including notes relating to the superscript references in the above table, may be viewed online by clicking on the product name in the associated entry on www.RedBookLive.com

Certificate No: 199ab-(cl-4) to EN 54-7: 2018 & EN 54-17: 2005

Smoke Detectors

Certificated Products		LPCB Ref. No.
NFXI-OPT	Analogue addressable optical smoke sensor with short circuit isolator (B501AP, B524HTR & B524RTE bases) Note: Meets the requirements of EN 54-7 at high and low sensitivity	199ab/01
NFXI-VIEW	High Sensitivity Point Optical Smoke Detector with Short Circuit Isolator (B501AP) Note: 1. Meets the requirements of EN 54-7 at high sensitivity	199ab/03

Bases:
B501AP intelligent sensor base
B524HTR heater base
B524RTE latching relay base

A copy of the certificate, confirming the full scope of approval including notes relating to the superscript references in the above table, may be viewed online by clicking on the product name in the associated entry on www.RedBookLive.com

Certificate No: 199ac-(cl-4) to EN 54-5: 2017 + A1: 2018 & EN 54-17: 2005

Heat Detectors

Certificated Products		LPCB Ref. No.
NFXI-TFIX58	Analogue addressable Category A1S fixed temperature heat sensor with short circuit isolator (B501AP, B524HTR & B524RTE bases)	199ac/01
NFXI-TFIX78	Analogue addressable Category BS fixed temperature heat sensor with short circuit isolator (B501AP, B524HTR & B524RTE bases)	199ac/02
NFXI-TDIFF	Analogue addressable Category A1R rate of rise heat sensor with short circuit isolator (B501AP, B524HTR & B524RTE bases)	199ac/03

Bases:
B501AP intelligent sensor base
B524HTR heater base
B524RTE latching relay base

A copy of the certificate, confirming the full scope of approval including notes relating to the superscript references in the above table, may be viewed online by clicking on the product name in the associated entry on www.RedBookLive.com

Certificate No: 199t-(cl-3) to LPS 1279 - 1.0: 2006, EN 54-5: 2017 + A1: 2018, EN 54-7: 2018 & CEA 4021: 2003

Multi-Sensor/Multi-Criteria Detectors

Certificated Products		LPCB Ref. No.
IRX-751CTEM	Analogue addressable multi-criteria fire detector incorporating CO, photoelectric, thermal and IR sensors (B501, B501DG and B524IEFT-1 bases) *Note: Certified at the following settings: -* Normal Mode: Alarm Levels 1 to 5 (Multi-criteria): EN54-5 Category A1R, EN54-7, LPS1279 and CEA 4021 Alarm Level 6 (Heat Only Mode): EN54-5 Category A1R Nuisance Environment Applications: Application 0, Alarm Level 4 EN54-7, LPS1279 & CEA 4021 Application 1, Alarm Level 5 EN54-5 Category A1R, EN54-7 & CEA 4021 Application 2, Alarm Level 4 or 5 EN54-5 Category A1R, EN54-7 & CEA 4021 Application 3, Alarm Level 5 EN54-5 Category A1R, EN54-7 & CEA 4021 Application 4, Alarm Level 5 EN54-5 Category A1R, EN54-7 & CEA 4021 Application 5, Alarm Level 5 EN54-7 & CEA 4021 Application 6, Alarm Level 5 EN54-5 Category A1R, EN54-7 & CEA 4021	199t/01

Bases:
B501 standard analogue detector base
B501DG analogue deep base
B524IEFT-1 short circuit isolator
A copy of the certificate, confirming the full scope of approval including notes relating to the superscript references in the above table, may be viewed online by clicking on the product name in the associated entry on www.RedBookLive.com

Certificate No: 199aa-(cl-4) to EN 54-5: 2017 + A1: 2018, EN 54-7: 2018, CEA 4021: 2003 & EN 54-17: 2005

Multi-Sensor/Multi-Criteria Detectors

Certificated Products		LPCB Ref. No.
NFXI-SMT3	Analogue addressable photo-thermal-IR multi-criteria smoke sensor with short circuit isolator (B501AP, B524HTR & B524RTE bases) Note: Certified at the following settings: - Alarm levels 1 to 5 (Multi-criteria): EN 54-5 Category A1R, EN 54-7 & CEA 4021: 2003 Alarm level 6 (Heat only mode): EN 54-5 Category A1R	199aa/01
NFXI-SMT2	Analogue addressable photo-thermal multi-criteria smoke sensor with short circuit isolator (B501AP, B524HTR & B524RTE bases) Note: Certified at the following settings: - Alarm levels 1 to 5 (Multi-criteria): EN 54-5 Category A1R, EN 54-7 & CEA 4021: 2003 Alarm level 6 (Heat only mode): EN 54-5 Category A1R	199aa/02

Bases:
B501AP intelligent sensor base
B524HTR heater base
B524RTE latching relay base

A copy of the certificate, confirming the full scope of approval including notes relating to the superscript references in the above table, may be viewed online by clicking on the product name in the associated entry on www.RedBookLive.com

Notifier Fire Systems India

Honeywell Fire Systems, BSEL Tech Park, Floor 6, 603, Sector 30A, opposite Vashi Station, Vashi, New Mumbia, India
Tel: +91 022 67122427 • Fax: +91 02267122422
E-mail: rk.raman@honeywell.com • Website: www.myhoneywell.com

Certificate No: 550b to EN 54-5: 2017 + A1: 2018, EN 54-7: 2018 and CEA 4021: 2003
Certificate No: 550e to EN54-5: 2017 + A1: 2018, EN54-7: 2018, EN 54-17: 2005 and CEA 4021: 2003

Multi-criteria Detectors

Certificated Products		LPCB Ref. No.
NFX-SMT2-yy	Analogue addressable photo-thermal multi-criteria detector (B501AP, B501, B524IEFT-1, B524HTR and B524RTE bases) *Notes:* 1) yy = Colour option ~ IV = Ivory, BK = Black, no reference indicates White 2) Certified at the following settings: - Alarm levels 1 to 5 (Multi-criteria): EN 54-5 category A1R, EN 54-7 & CEA 4021: 2003 Alarm level 6 (Heat only mode): EN 54-5 category A1R	550b/05
NFXI-SMT2-yy	Analogue addressable photo-thermal multi-criteria smoke detector with short circuit isolator (B501AP, B524HTR and B524RTE bases) *Notes:* 1) yy = Colour option ~ IV = Ivory, BK = Black, no reference indicates White 2) Certified at the following settings: - Alarm levels 1 to 5 (Multi-criteria): EN 54-5 category A1R, EN 54-7 & CEA 4021: 2003 Alarm level 6 (Heat only mode): EN 54-5 category A1R	550e/02

Bases:
B501 Standard base
B501DG Deep analogue detector base
B5242EFT-1 Short circuit islolator base
B501AP intelligent detector base
B524HTR heater base
B524RTE latching relay base

Certificate No: 550c to EN 54-5: 2017 + A1: 2018
Certificate No: 550f to EN 54-5: 2017 + A1: 2018 and EN 54-17: 2005

Point Heat Detectors

Certificated Products		LPCB Ref. No.
NFX-TDIFF-yy	Analogue addressable category A1R rate of rise heat detector (B501AP, B501, B524IEFT-1, B524HTR and B524RTE bases) *Note:* 1) yy = Colour option ~ IV = Ivory, BK = Black, no reference indicates White	550c/06
NFX-TFIX58-yy	Analogue addressable category A1S fixed temperature heat detector (B501AP, B501, B524IEFT-1, B524HTR and B524RTE bases) *Note:* 1) yy = Colour option ~ IV = Ivory, BK = Black, no reference indicates White	550c/07
NFXI-TDIFF-yy	Analogue addressable category A1R rate of rise heat detector with short circuit isolator (B501AP, B524HTR and B524RTE bases) *Note:* 1) yy = Colour option ~ IV = Ivory, BK = Black, no reference indicates White	550f/01
NFXI-TFIX58-yy	Analogue addressable category A1S fixed temperature heat detector with short circuit isolator (B501AP, B524HTR and B524RTE bases) *Note:* 1) yy = Colour option ~ IV = Ivory, BK = Black, no reference indicates White	550f/02

Bases:
B501 Standard base
B501DG Deep analogue detector base

B542IEFT-1 Short circuit islolator base
B501AP intelligent detector base
B524HTR heater base
B524RTE latching relay base

Certificate No: 550a to EN 54-7: 2018
Certificate No: 550d to EN54-7: 2018 and EN 54-17: 2005

Point Smoke Detectors

Certificated Products		**LPCB Ref. No.**
NFX-OPT-yy	Analogue addressable optical smoke detector (B501AP, B501, B524IEFT-1, B524HTR and B524RTE bases) *Notes:* 1) yy = Colour option ~ IV = Ivory, BK = Black, no reference indicates White 2) Meets the requirements of EN 54-7 at high and low sensitivity	550a/04
NFXI-OPT-yy	Analogue addressable optical smoke detector with short circuit isolator (B501AP, B524HTR and B524RTE bases) *Notes:* 1) yy = Colour option ~ IV = Ivory, BK = Black, no reference indicates White 2) Meets the requirements of EN 54-7 at high and low sensitivity	550d/01

Bases:
B501 standard analogue detector base
B501DG deep analogue detector base
B5241EFT-1 analogue short circuit isolator base
B501AP intelligent detector base
B524HTR heater base
B524RTE latching relay base

NOTOFIRE PVT LTD

C-146, Ground Floor, Block C, Sector 63, NOIDA, Gautam Buddha Nagar,, Uttar Pradesh 201301, India
Tel: +919999991525
E-mail: indianotofire@gmail.com • Website: www.no2fire.com

Certificate No: 1450c-(cl-2) to EN 54-7:2018

Certificated Products		**LPCB Ref. No.**
NF5161	Addressable Photoelectric Smoke Detector	1450c/01

Base
NFDZ5000 Standard Base
A copy of the certificate, confirming the full scope of approval including notes relating to the superscript references in the above table, may be viewed online by clicking on the product name in the associated entry on www.RedBookLive.com

Certificate No: 1450d-(cl-2) to EN 54-5:2017 + A1: 2018

Certificated Products		**LPCB Ref. No.**
NF5162	Addressable Class A2R Rate of Rise and Fixed Temperature Heat Detector	1450d/01

Base

NFDZ5000 Standard Base
A copy of the certificate, confirming the full scope of approval including notes relating to the superscript references in the above table, may be viewed online by clicking on the product name in the associated entry on www.RedBookLive.com

Certificate No: 1450j-(cl-2) to EN 54-29:2015

Certificated Products		LPCB Ref. No.
NF5163	Addressable Smoke and Heat Multi Detector (NFDZ5000 Base) Notes: 1. Meets the requirements of EN 54-29 for Heat Category A2R Meets the requirements of EN 54-29 at Smoke sensitivity levels High, Medium and Low	1450j/01

Base

NFDZ5000 Base

A copy of the certificate, confirming the full scope of approval including notes relating to the superscript references in the above table, may be viewed online by clicking on the product name in the associated entry on www.RedBookLive.com

---

POLON-ALFA S.A.

ul. Glinki 155, Bydgoszcz 85 861, Poland
Tel: +48523639269 / +48691999933
E-mail: tomasz.piaskowski@polon-alfa.pl

Certificate No: 1283a to EN 54-12: 2002

Beam Detectors

Certificated Products		LPCB Ref. No.
DOP-6001R	Conventional Optical Beam Smoke Detector (Double Pass) *Notes:* *1. Meets the requirements of EN 54-12 at the following sensitivity settings only:* • *18% obscuration high sensitivity at between 5-20m* • *30% obscuration medium sensitivity at between 20-100m* *2. Suitable for use with E39-R8 prismatic reflector over distances from 5 to 50m* *3. Suitable for use with 4 x E39-R8 set of reflectors over distances from 50 to100m*	1283a/01

Ancillaries
E39-R8 Single prism reflector
4 x E39-R8 Set of 4 x prism reflectors
A copy of the certificate, confirming the full scope of approval including notes relating to the superscript references in the above table, may be viewed online by clicking on the product name in the associated entry on www.RedBookLive.com

---

PT.Servvo Fire Indonesia

Pusat Niaga Roxy Mas Blok D5/17,, Jl.K.H. Hasyim Ashari Blok 125, Cideng, Gambir, Jakarta Pusat, DKI Jakarta Raya 10150, Indonesia
Tel: +62216330330
E-mail: info@servvo.com Info@servvo.co.id • Website: www.servvo.com or www.servvo.co.id

Certificate No: 1426b-(cl-4) to EN 54-5: 2017 + A1: 2018

Certificated Products		LPCB Ref. No.
SHD 638	Addressable Heat Detector (Base DZ-912) *Notes:* *Meets the requirements of EN 54-5 for Category A2*	1426b/01

Base
DZ-912
A copy of the certificate, confirming the full scope of approval including notes relating to the superscript references in the above table, may be viewed online by clicking on the product name in the associated entry on www.RedBookLive.com

Certificate No: 1426c-(cl-4) to EN 54-7 : 2018

Certificated Products		LPCB Ref. No.
SSD 537	Addressable Smoke detector (DZ-912 Base) *Notes:* *Meets the requirements of EN 54-7 for 1 sensitivity setting*	1426c/01

A copy of the certificate, confirming the full scope of approval including notes relating to the superscript references in the above table, may be viewed online by clicking on the product name in the associated entry on www.RedBookLive.com

Rapidsense Safety Technology Private Limited

B Hub, 2nd Floor, Plot No. 36/B, TSIIC, Balanagar, Hyderabad, Telangana 500037, India
Tel: 04042624079

Certificate No: 1395a-(cl-2) to EN 54-7:2018

Approved Products		LPCB Ref. No.
RS-CSD101	Conventional Photo-electronic Smoke Detector (RS-B-01) Notes: Meets the requirements of EN 54-7 for 1 sensitivity setting	1395a/01

Base

RS-B-01

A copy of the certificate, confirming the full scope of approval including notes relating to the superscript references in the above table, may be viewed online by clicking on the product name in the associated entry on www.RedBookLive.com

Certificate No: 1395b-(cl-2) to EN 54-5:2017 + A1:2018

Approved Products		LPCB Ref. No.
RS-CHD102	Conventional Rate of Rise Heat Detector (RS-B-01) Notes: Meets the requirements of EN 54-5 for Category A2R	1395b/01

Base

RS-B-01

A copy of the certificate, confirming the full scope of approval including notes relating to the superscript references in the above table, may be viewed online by clicking on the product name in the associated entry on www.RedBookLive.com

Ravel Electronics Pvt Ltd.

150A, 1st Main Road, Electronics Industrial Estate, Perungudi, Chennai 600 096, India
Tel: 044424961004
E-mail: rajasekaran@ravelfire.com • Website: http://ravelfire.com/

Certificate No: 1283a-(cl-5) to EN 54-12:2002

Beam Detectors

Certificated Products		LPCB Ref. No.
RE-428FR/HR	Conventional Optical Beam Smoke Detector (Double Pass) Notes: 1. Meets the requirements of EN 54-12 at the following sensitivity settings only: - 18% obscuration high sensitivity at between 5-20m - 30% obscuration medium sensitivity at between 20-100m 2. Suitable for use with RE-96R prismatic reflector over distances from 5 to 50m 3. Suitable for use with 4 x RE-96R set of reflectors over distances from 50 to 100m	1283a/01

Ancillaries:
RE-96R Single prism reflector
4 x RE-96R Set of 4 x prism reflectors
A copy of the certificate, confirming the full scope of approval including notes relating to the superscript references in the above table, may be viewed online by clicking on the product name in the associated entry on www.RedBookLive.com

Rezontech Co., Ltd.

(Gwanyang-dong), 72-9, Beolmal-ro, Dongan-gu, Anyang-si, Gyeonggi-do 14058, Republic of Korea
Tel: +82-31-348-4246~8
E-mail: sales@rezontech.com • Website: http://rezontech.co.kr//en/index.php

Certificate No: 1574a to EN 54-10:2002 + A1:2005

Flame Detectors

Certificated Products		LPCB Ref. No.
RFD-2000X	UV & IR Flame Detector Note: Meets EN 54-10:2002 + A1:2005 at Class 1	1574a/01

A copy of the certificate, confirming the full scope of approval including notes relating to the superscript references in the above table, may be viewed online by clicking on the product name in the associated entry on www.RedBookLive.com

Safe Detection

33 Jurong West Street, 41#11-41, Jurong 649413, Singapore
Tel: 98797913
E-mail: sales@safedtec.com

Certificate No: 1148b-(cl-2) to EN 54-7:2018

Smoke Detectors

Certificated Products		LPCB Ref. No.
SD10	Conventional Optical Smoke Detector (DB-6 Standard Base) *Note:* *Meets the requirements of EN 54-7 in the normal sensitivity setting*	1148b/01

A copy of the certificate, confirming the full scope of approval including notes relating to the superscript references in the above table, may be viewed online by clicking on the product name in the associated entry on www.RedBookLive.com

Certificate No: 1148a-(cl-2) to EN 54-5:2017 + A1:2018

Heat Detectors

Certificated Products		LPCB Ref. No.
HD10	Conventional Rate of Rise & Fixed Temperature Heat Detector (DB-6 Standard Base) *Note:* *Meets the requirements of EN 54-5 at Category A2R*	1148a/01

A copy of the certificate, confirming the full scope of approval including notes relating to the superscript references in the above table, may be viewed online by clicking on the product name in the associated entry on www.RedBookLive.com

Schneider Electric Fire & Security Oy

Sokerilinnantie 11C, 02600, Espoo, Finland
Tel: +358 10 446 511 • Fax: +358 10 446 5103
E-mail: FI-FireSecurity-Info@schneider-electric.com • Website: www.schneider-electric.com

Certificate No: 199m-(cl-5) to EN 54-7: 2018

Smoke Detectors

Certificated Products		LPCB Ref. No.
ED2351E	Conventional photoelectric detector (B401, B401DG, B401R, B401SD and B401RSD bases) *Note:* *1. Meets EN 54-7 at High, Medium & Low Sensitivity Settings*	199m/03

Bases:
B401 standard base
B401DG deep base
B401R standard base with 470 ohm resistor
B401SD standard base with schottky diode
B401RSD standard base with 470 ohm resistor and schottky diode
B501 Analogue sensor base
B501DG Analogue sensor deep base
B524IEFT Analogue sensor isolator base
B524HTR Heater base
B524RTE Latching relay base
A copy of the certificate, confirming the full scope of approval including notes relating to the superscript references in the above table, may be viewed online by clicking on the product name in the associated entry on www.RedBookLive.com

Certificate No: 199n-(cl-5) to EN 54-5: 2017 + A1: 2018

Heat Detectors

Certificated Products		LPCB Ref. No.
ED5351E	Category A1R conventional rate of rise heat detector (B401, B401DG, B401R and B401RSD bases)	199n/07
ED4351E	Category BS conventional heat detector (B401, B401DG, B401R, B401SD and B401RSD bases)	199n/08
ED5351TE	Category A2S conventional fixed temperature heat detector (B401, B401R, B401RSD, B401SD and B401DG bases)	199n/14

Bases:
B401 standard base
B401DG deep base
B401R standard base with 470 ohm resistor
B401SD standard base with schottky diode
B401RSD standard base with 470 ohm resistor and schottky diode
B501 analogue sensor base
B501AP intelligent detector base
B501DG analogue sensor deep base
B524IEFT analogue sensor isolator base
B524IEFT-1 analogue short circuit isolator base
B524HTR heater base
B524RTE latching relay base

A copy of the certificate, confirming the full scope of approval including notes relating to the superscript references in the above table, may be viewed online by clicking on the product name in the associated entry on www.RedBookLive.com

Certificate No: 199p-(cl-5) to EN54-5: 2017 + A1: 2018, EN 54-7: 2018 & CEA 4021: 2003

Multi Criteria Detectors

Certificated Products		LPCB Ref. No.
ED2351TEM	Conventional optical/thermal smoke & heat detector (B401, B401DG, B401R, B401SD and B401RSD bases)	199p/03

Certificated Products		LPCB Ref. No.
	Note: *1. Meets the requirements of EN 54-5 at Category A1R and EN 54-7 at High, Medium and Low.*	

Bases:
B401 standard base
B401DG deep base
B401R standard base with 470 ohm resistor
B401SD standard base with schottky diode
B401RSD standard base with 470 ohm resistor and schottky diode
B501 standard analogue detector base
B501AP intelligent detector base
B501DG Deep detector base
B524IEFT Short circuit isolator base
B524HTR Heater base
B524RTE Latching relay base

A copy of the certificate, confirming the full scope of approval including notes relating to the superscript references in the above table, may be viewed online by clicking on the product name in the associated entry on www.RedBookLive.com

Certificate No: 010bd-(cl-2) to EN 54-5:2017 + A1:2018 & EN 54-17:2005

Heat Detectors

Certificated Products		LPCB Ref. No.
EDE221-I	ESMI Essentia Heat Detector (EBE200-N base) Note: 1. Meets requirements of EN 54-5:2000 + A1:2002 for classes A1R, A2R, A2S, CR, CS, BR and BS.	010bd/01

Bases
EBE200-N ESMI Essentia Xpert 8 Mounting Base

A copy of the certificate, confirming the full scope of approval including notes relating to the superscript references in the above table, may be viewed online by clicking on the product name in the associated entry on www.RedBookLive.com

Certificate No: 010bc-(cl-2) to EN 54-7:2018 & EN 54-17:2005

Smoke Detectors

Certificated Products		LPCB Ref. No.
EDE222-I	ESMI Essentia Optical Smoke Detector (EBE200-N base)	010bc/01
	Certified at the following settings: Mode 1: High sensitivity smoke detector with fast response time Mode 2: High sensitivity smoke detector with standard response time Mode 3: Standard smoke sensitivity with fast response time Mode 4: Standard smoke sensitivity with standard response time Mode 5: Medium-Low sensitivity smoke detector with fast response time	

Bases
EBE200-N ESMI Essentia Xpert 8 Mounting Base
A copy of the certificate, confirming the full scope of approval including notes relating to the superscript references in the above table, may be viewed online by clicking on the product name in the associated entry on www.RedBookLive.com

Certificate No: 010bb-(cl-2) to EN 54-5:2017 + A1:2018, EN 54-7:2018, EN 54-17:2005 & CEA 4021:2003

Multi-Sensor/Multi-Criteria Detectors

Certificated Products		LPCB Ref. No.
EDE223-I	ESMI Essentia Smoke/Heat Detector with Multi-Criteria Detector (EBE200-N base)	010bb/01
	Certified at the following settings: Mode 1: High sensitivity smoke detector with high heat enhancement Mode 2: Standard smoke sensitivity only Mode 3: Medium sensitivity smoke detector with medium heat enhancement Mode 4: Low sensitivity smoke detector with high heat enhancement	

Certificated Products		LPCB Ref. No.
	Mode 5: Class A1R heat detector	

Bases
EBE200-N ESMI Essentia Xpert 8 Mounting Base

A copy of the certificate, confirming the full scope of approval including notes relating to the superscript references in the above table, may be viewed online by clicking on the product name in the associated entry on www.RedBookLive.com

Certificate No: 010q to EN 54-7:2018

Smoke Detectors

Certificated Products		LPCB Ref. No.
EDI-10	ESMI Intellia Ionisation Smoke Detector (EBI-10 and EBI-12 bases) Notes: 1. Meets the requirements of EN 54: Part 7 in modes 1, 2, 3, 4, 5 and in conventional mode. 2. Certified with Apollo, Discovery, XP95 and S90 digital communication protocols that have been configured for the Discovery ionisation smoke detectors in accordance with manufacturer's instructions	010q/02
EDI-20	ESMI Intellia Optical Smoke Detector (EBI-10 and EBI-12 bases) Notes: 1. Meets the requirements of EN54: Part 7 in modes 1, 2, 3, 4 and 5 and in conventional mode. 2. Certified with Apollo Discovery, XP95, and S90 digital communication protocols that have been configured for the Discovery optical smoke detectors in accordance with manufacturer's instructions.	010q/03

Bases
EBI-10 ESMI Intellia Mounting Base
EBI-12 ESMI Intellia Mounting Base

Certificate No: 010s to EN 54-7:2018

Smoke Detectors

Certificated Products		LPCB Ref. No.
EDC-20	ESMI Conventia Optical Smoke Detector (Approved for use with EBC-10, EBC-20 & EBC-11 bases)	010s/01

Bases
EBC-10 ESMI Conventia TimeSaver Base
EBC-11 ESMI Conventia TimeSaver Deep Base
EBC-20 ESMI Conventia Relay Base

Certificate No: 010t to EN 54-7:2018, CEA 4021:2003

Smoke Detectors

Certificated Products		LPCB Ref. No.
EDC-30	ESMI Conventia Multisensor Smoke Detector (EBC-10, EBC-11 & EBC-20 bases)	010t/01

Bases
EBC-10 ESMI Conventia TimeSaver Base
EBC-11 ESMI Conventia TimeSaver Deep Base
EBC-20 ESMI Conventia Relay Base

Certificate No: 010p to EN 54-5:2017 + A1:2018

Heat Detectors

Certificated Products		LPCB Ref. No.
EDI-50	ESMI Intellia Heat Detector (EBI-10 and EBI-12 bases) Notes: 1. Meets the requirements of EN54: Part 5 at the following modes: Category A1R in mode 1 and in conventional mode Category A2 in mode 2 and in conventional mode Category A2S in mode 3 and in conventional mode Category CR in mode 4 and in conventional mode Category CS in mode 5 and in conventional mode 2. Certified with Apollo Discovery, XP95, and S90 digital communications protocols configured for the Discovery Heat Detector in accordance with manufacturer's instructions.	010p/03

Bases
EBI-10 ESMI Intellia Mounting Base
EBI-12 ESMI Intellia Mounting Base

Certificate No: 010r to EN 54-5:2017 + A1:2018

Heat Detectors

Certificated Products		LPCB Ref. No.
EDC-50/A2S	ESMI Conventional Category A2S Heat Detector (EBC-10, EBC-11 & EBC-20 bases) Note: 1. Meets the requirements of EN 54-5 at Category A2S	010r/02
EDC-50/A1S	ESMI Conventional Category A1S Heat Detector (EBC-10, EBC-11 & EBC-20 bases) Note: 1. Meets the requirements of EN 54-5 at Category A1S	010r/07

Bases
EBC-10 ESMI Conventia TimeSaver Base
EBC-11 ESMI Conventia TimeSaver Deep Base
EBC-20 ESMI Conventia Relay Base

Certificate No: 010h to EN 54-5:2017 + A1:2018, EN 54-7:2018 & CEA 4021:2003

Multi-Sensor/Multi-Criteria Detectors

Certificated Products		LPCB Ref. No.
EDI-30	ESMI Intellia Multisensor Smoke Detector (EBI-10 and EBI-12 bases) Note: 1. Certified at the following settings: Mode 1 - High sensitivity smoke detector with standard heat enhancement Mode 2 - Smoke detection only Mode 3 - Medium sensitivity smoke detector with standard heat enhancement Mode 4 - Low sensitivity smoke detector with high heat enhancement Mode 5 - Class A1 heat detector Also approved in conventional alarm modes 1, 2, 3, 4 and 5 2. Approved with Apollo Discovery, XP95, and S90 digital communication protocols that have been configured for the Discovery multisensor detector in accordance with manufacturers instructions.	010h/01

Bases
EBI-10 ESMI Intellia Mounting Base
EBI-12 ESMI Intellia Mounting Base

Certificate No: 199t-(cl-4) to LPS 1279 - 1.0: 2006, EN 54-5: 2017 + A1: 2018, EN 54-7: 2018 & CEA 4021: 2003

Multi-Sensor/Multi-Criteria Detectors

Certificated Products		LPCB Ref. No.
ESMI2251CTLE	Analogue addressable multi-criteria fire detector and incorporating CO, photoelectric, thermal and IR sensors (B501, B501AP, B501DG and B524IEFT-1 bases) Note: Certified at the following settings: - Normal Mode: Alarm Levels 1 to 5 (Multi-criteria) EN54-5 Category A1R, EN54-7, LPS1279 and CEA 4021 Alarm Level 6 (Heat Only Mode): EN54-5 Category A1R Nuisance Environment Applications: Application 0, Alarm Level 4 EN54-7, LPS1279 & CEA 4021 Application 1, Alarm Level 5 EN54-5 Category A1R, EN54-7 & CEA 4021 Application 2, Alarm Level 4 or 5 EN54-5 Category A1R, EN54-7 & CEA 4021 Application 3, Alarm Level 5 EN54-5 Category A1R, EN54-7 & CEA 4021 Application 4, Alarm Level 5 EN54-5 Category A1R, EN54-7 & CEA 4021 Application 5, Alarm Level 5 EN54-7 & CEA 4021 Application 6, Alarm Level 5 EN54-5 Category A1R, EN54-7 & CEA 4021	199t/01

Bases:
B401 standard base
B401DG deep base
B401R standard base with 470 ohm resistor
B401SD standard base with schottky diode
B401RSD standard base with 470 ohm resistor and schottky diode
B501 standard analogue detector base
B501AP intelligent detector base
B501DG Deep detector base
B524IEFT Short circuit isolator base
B524HTR Heater base
B524RTE Latching relay base

A copy of the certificate, confirming the full scope of approval including notes relating to the superscript references in the above table, may be viewed online by clicking on the product name in the associated entry on www.RedBookLive.com

---

Shenzhen Heiman Technology Co Ltd

No 84 Fuqian Road, Yuexingwei Community, Guanlan, Longhua New District, Shenzhen 518110, China
Tel: +86 75584193930 x8018 • Fax:
E-mail: office@heiman.com.cn

Certificate No: 1138a to EN 54-7: 2000 + A1: 2002 + A2: 2006

Smoke Detectors

Certificated Products		LPCB Ref. No.
HM-612PC-4	Conventional 4-WIRE photoelectric smoke detector with relay output (B-01 base)	1138a/01
HM-612PC-2	Conventional 2-WIRE photoelectric smoke detector with remote LED (B-01 base)	1138a/02
HM-613PC-4	Conventional 4-WIRE photoelectric smoke detector with relay output (B-01 base)	1138a/03
HM-613PC-2	Conventional 2-WIRE photoelectric smoke detector with remote LED (B-01 base)	1138a/04

Base
B-01 Standard base

A copy of the certificate, confirming the full scope of approval including notes relating to the superscript references in the above table, may be viewed online by clicking on the product name in the associated entry on www.RedBookLive.com

Shenzhen HTI Sanjiang Electronics CO., Ltd

3/F., Guangcai Xintiandi Mansion, Nanshan Road, Nanshan District, Shenzhen, Guangdong 51804, China
Tel: +86 755 26521071
E-mail: shuxian.wei@fhsjdz.com

Certificate No: 1426c-(cl-2) to EN 54-7:2018

Certificated Products		LPCB Ref. No.
A9030T	Addressable Smoke Detector *Notes:* *Meets the requirements of EN 54-7 for 1 sensitivity setting*	1426c/01
C9030T	Conventional Optical Smoke Detector (DZ-912K Base) *Notes:* *Meets the requirements of EN 54-7 for 1 sensitivity setting*	1426c/02

Base
DZ-912
DZ912K

A copy of the certificate, confirming the full scope of approval including notes relating to the superscript references in the above table, may be viewed online by clicking on the product name in the associated entry on www.RedBookLive.com

Certificate No: 1426b-(cl-2) to EN 54-5:2017 + A1:2018
Certificate No: 1426b-(cl-2)_ to EN 54-5:2017 + A1:2018

Certificated Products		LPCB Ref. No.
A9020T	Addressable Heat Detector *Meets the requirements of EN 54-5 for Category A2*	1426b/01
C9020T	Conventional Rate of Rise and Fixed Temperature Heat Detector (Base DZ-912K) *Meets the requirements of EN 54-5 for Category A2R and A2S*	1426b/02

Base
DZ-912
DZ912K

A copy of the certificate, confirming the full scope of approval including notes relating to the superscript references in the above table, may be viewed online by clicking on the product name in the associated entry on www.RedBookLive.com

Certificate No: 1426k-(cl-1) to EN 54-5: 2017 + A1: 2018, EN 54-7:2018

Certificated Products		LPCB Ref. No.
A9036T	Analogue Addressable Optical/Heat Multi-sensor Detector (Base DZ-912) *Notes:* *1. Meets the requirements of EN 54-7: using modes 1& 2at sensitivity level 1 and EN 54-5 using Modes1 & 2 for Category A2R and A2* *2. Meets the requirements of EN 54-5: using Modes 3 & 4 for Category A2R, and A2S* *3. Meets the requirements of EN 54-7 using Mode 5 at sensitivity level 1*	1426k/01

Base

DZ-912

A copy of the certificate, confirming the full scope of approval including notes relating to the superscript references in the above table, may be viewed online by clicking on the product name in the associated entry on www.RedBookLive.com

SHIELD FIRE, SAFETY AND SECURITY LIMITED

Unit 3 Endeavour Drive, Basildon, Essex SS14 3WF, United Kingdom
Tel: +44 1708 377731 • Fax: +44 1708 347637
E-mail: shielduk@shieldglobal.com • Website: www.shieldglobal.com

Certificate No: 010q-(cl-5) to EN 54-7:2018

Smoke Detectors

Certificated Products		LPCB Ref. No.
SIL-A8021	SIL Optical Detector (SEN-A4001 mounting base) Notes: 1. Meets the requirements of EN54: Part 7 in modes 1, 2, 3, 4 and 5 and in conventional mode. 2. Certified with Apollo Discovery, XP95, and S90 digital communication protocols that have been configured for the Discovery optical smoke detectors in accordance with manufacturer's instructions.	010q/03
SEN-A4011	Analogue Addressable Optical Smoke Detector mounting base) Certified with Communication protocol in accordance with manufacturers instructions.	010q/18
SIL-A8011	SIL I.S. Optical Detector (SIL-A8058 base) Note: Certified with Apollo Series 90 and XP95 digital communications protocol.	010q/22

Bases:
SEN-C2001 Conventional mounting base
SEN-A4001 Addressable mounting base
TEN-A8030 Standard Mounting Base

A copy of the certificate, confirming the full scope of approval including notes relating to the superscript references in the above table, may be viewed online by clicking on the product name in the associated entry on www.RedBookLive.com

Certificate No: 010m-(cl-2) to EN 54-7:2018 & CEA 4021: 2003

Multi-Sensor/Multi-Criteria Detectors

Certificated Products		LPCB Ref. No.
SEN-A4015	Analogue Addressable Multisensor Detector (SEN-A4001 mounting base) Certified with digital communication protocol that has been configured for the multisensor detector in accordance with manufacturers instructions.	010m/01

Bases:
SEN-A4001 Addressable mounting base
TEN-A8030 Standard Mounting Base

A copy of the certificate, confirming the full scope of approval including notes relating to the superscript references in the above table, may be viewed online by clicking on the product name in the associated entry on www.RedBookLive.com

Certificate No: 010p-(cl-5) to EN 54-5: 2017 + A1: 2018

Heat Detectors

Certificated Products		LPCB Ref. No.
SIL-A8022	SIL Heat Detector (SEN-A4001 mounting base) Notes: 1. Meets the requirements of EN54: Part 5 at the following modes: • Category A1R in mode 1 and in conventional mode • Category A2 in mode 2 and in conventional mode • Category A2S in mode 3 and in conventional mode • Category CR in mode 4 and in conventional mode • Category CS in mode 5 and in conventional mode 2. Certified with Apollo Discovery, XP95, and S90 digital communications protocols configured for the Discovery Heat Detector in accordance with manufacturer's	010p/03

Certificated Products		LPCB Ref. No.
	instructions.	
SEN-A4013	Analogue Addressable Category A2S Heat Detector (SEN-A4001 mounting base) Note: Meets the requirements of Category A2S	010p/20
SIL-A8012	SIL I.S. Heat Detector (SIL-A8058 base) Notes: 1. Meets the requirements of EN54: Part 5 at Category A2S. 2. Certified with Apollo Series 90 and XP95 digital communications protocols.	010p/23

Bases:

SEN-C2001	Conventional mounting base
SEN-A4001	Addressable mounting base
TEN-A8030	Standard Mounting Base
SIL-A8058	Intrinsically Safe Mounting Base

A copy of the certificate, confirming the full scope of approval including notes relating to the superscript references in the above table, may be viewed online by clicking on the product name in the associated entry on www.RedBookLive.com

Certificate No: 1204b-(cl-1) to EN 54-10: 2002 + A1: 2005

Flame Detectors

Certificated Products		LPCB Ref. No.
SEN-C2030	S65 Conventional UV Flame Detector (with base SEN-C2001) *Note:* *Meets EN 54-10:2002 at Class 1 and Class 3*	1204b/04

SEN-C2001 Standard base

A copy of the certificate, confirming the full scope of approval including notes relating to the superscript references in the above table, may be viewed online by clicking on the product name in the associated entry on www.RedBookLive.com

Certificate No: 010bc-(cl-3) to EN 54-7:2018 & EN 54-17:2005

Smoke Detectors

Certificated Products		LPCB Ref. No.
TEN-A8011	Photo-Electric Smoke Detector with Isolator (TEN-A8030 base) *Certified at the following settings:* Mode 1: High sensitivity smoke detector with fast response time Mode 2: High sensitivity smoke detector with standard response time Mode 3: Standard smoke sensitivity with fast response time Mode 4: Standard smoke sensitivity with standard response time Mode 5: Medium-Low sensitivity smoke detector with fast response time	010bc/01

Bases:
TEN-A8030 Standard Mounting Base

A copy of the certificate, confirming the full scope of approval including notes relating to the superscript references in the above table, may be viewed online by clicking on the product name in the associated entry on www.RedBookLive.com

Certificate No: 010bb-(cl-3) to EN 54-5:2017 + A1:2018, EN 54-7:2018, EN 54-17:2005 & CEA 4021:2003

Multi-Sensor/Multi-Criteria Detectors

Certificated Products		LPCB Ref. No.
TEN-A8013	Multisensor Detector with Isolator (TEN-A8030 base) *Certified at the following settings:* Mode 1: High sensitivity smoke detector with high heat enhancement Mode 2: Standard smoke sensitivity only Mode 3: Medium sensitivity smoke detector with medium heat enhancement	010bb/01

Bases:

TEN-A8030 Standard Mounting Base

A copy of the certificate, confirming the full scope of approval including notes relating to the superscript references in the above table, may be viewed online by clicking on the product name in the associated entry on www.RedBookLive.com

Certificate No: 010h-(cl-3) to EN 54-5:2017 + A1:2018, EN 54-7:2018 & CEA 4021:2003

Multi-Sensor/Multi-Criteria Detectors

Certificated Products		LPCB Ref. No.
SIL-A8023	SIL Multisensor Detector (SEN-A4001 mounting base) Notes: 1. Certified at the following settings: Mode 1 – High sensitivity smoke detector with standard heat enhancement Mode 2 – Smoke detection only Mode 3 – Medium sensitivity smoke detector with standard heat enhancement Mode 4 – Low sensitivity smoke detector with high heat enhancement Mode 5 – Class A1 heat detector Also approved in conventional alarm modes 1, 2, 3, 4 and 5 2. Approved with Apollo Discovery, XP95, and S90 digital communication protocols that have been configured for the Discovery multisensor detector in accordance with manufacturer's instructions.	010h/01

Bases:
SEN-A4001 Addressable mounting base

A copy of the certificate, confirming the full scope of approval including notes relating to the superscript references in the above table, may be viewed online by clicking on the product name in the associated entry on www.RedBookLive.com

Certificate No: 010bd-(cl-3) to EN 54-5:2017 + A1:2018 & EN 54-17:2005

Heat Detectors

Certificated Products		LPCB Ref. No.
TEN-A8012	Heat Detector with Isolator (TEN-A8030 base) Note: 1. Meets requirements of EN 54-5:2000 + A1:2002 for categories A1R, A2R, A2S, CR, CS, BR and BS.	010bd/01

Bases:
TEN-A8030 Standard Mounting Base

A copy of the certificate, confirming the full scope of approval including notes relating to the superscript references in the above table, may be viewed online by clicking on the product name in the associated entry on www.RedBookLive.com

---

Siemens Switzerland Ltd

Theilerstrasse 1a, , CH-6300 Zug, Switzerland
Website: www.siemens.com

Certificate No: 126bb to EN 54-10:2002 + A1:2005

Certificated Products		LPCB Ref. No.
DF1101-Ex	Conventional I.S. Infra-Red Flame Detector (DFB1190 Base) Note: Certified to EN54-10:2002 + A1:2005 at Class 1 and 2	126bb/01

Base:
DFB1190 Base
FDFB291 Base
A copy of the certificate, confirming the full scope of approval including notes relating to the superscript references in the above table, may be viewed online by clicking on the product name in the associated entry on www.RedBookLive.com

Certificate No: 126bd to EN 54-12:2015, EN 54-17:2005

Certificated Products		LPCB Ref. No.
FDL241-9	Analogue Addressable Beam Detector with Short Circuit Isolator (FDLB291 base) Note: Certified at sensitivity settings 30%, 50% and 65%	126bd/02

Bases:
FDLB291 Base
A copy of the certificate, confirming the full scope of approval including notes relating to the superscript references in the above table, may be viewed online by clicking on the product name in the associated entry on www.RedBookLive.com

Certificate No: 126bf to EN 54-7:2018, EN 54-17:2005

Certificated Products		LPCB Ref. No.
FDO221	Analogue Addressable Optical Smoke Detector with Short Circuit Isolator (FDB221, FDB222, FDB291, FDB293, FDB295 bases)	126bf/01
FDO241	Analogue Addressable Optical Smoke Detector with Short Circuit Isolator (FDB221, FDB222, FDB291, FDB293, FDB295 bases)	126bf/02
OP720	Analogue Addressable Optical Smoke Detector with Short Circuit Isolator (DB720, DB721, DB222 bases, BA720, BA721 base adaptor) Note: 1. Meets the requirements of EN 54-7 in the following sensitivities: - Standard 2.5%/m - Sensitive 1.8%/m	531e/01
OP360	Analogue Addressable Optical Smoke Detector with Short Circuit Isolator (DB720, DB721, DB722 bases, BA720, BA721 base adaptor) Note: 1. Meets the requirements of EN 54-7 in the following sensitivity: • Standard 2.5%/m	531e/04

Bases:

FDB221	Base with stand offs
FDB201	Base "Collective"
FDB291	Base attachment surface
FDB292	Base attachment surface wet
DB720	Detector base
DB721	Detector base with loop contact
DB722	Detector Base
BA720	Base Adaptor
BA721	Base Adaptor
FDB222	Base without stand offs
FDB293	Base attachment surface wet

FDB295 Base attachment wet
A copy of the certificate, confirming the full scope of approval including notes relating to the superscript references in the above table, may be viewed online by clicking on the product name in the associated entry on www.RedBookLive.com

Certificate No: 531w-(cl-1) to EN 54-7:2018, EN 54-17:2005, EN 54-29:2015

Certificated Products		LPCB Ref. No.
OH720	Analogue Addressable Multi Sensor Smoke Detector with Short Circuit Isolator (DB721, DB722, BA720 and BA721 bases) Note: 1) Meets the requirements of EN 54-7 and EN 54-29 in the following sensitivities: 1 - Robust 3.5%/m 2 - Sensitive 2.5%/m	531w/01
OH360	Analogue Addressable Multi Sensor Smoke Detector with Short Circuit Isolator (DB721, DB722, BA720 and BA721 bases) Note: 1) Meets the requirements of EN 54-7 and EN 54-29 in the following sensitivities: 1 - Robust 3.5%/m	531w/02

FDB221	Addressable Detector Base
FDB222	Addressable Flat Detector Base

DB1151A Base for Sinteso & AlgoRex systems
DB1131A Base for Analog Plus Fire Detectors
FDB251 Base Adaptor for Sinteso & AlgoRex systems
FDB295 Base Attachment Wet
FDB291 Base Attachment for Surface Mount Cable Entry
FDB293 Base Adaptor Humid
FDB241 Base Adaptor for Migration Detectors
FDB201 Detector Base Collective
FDB202 Detector Base Collective, Flat
FDB299 Base Adaptor for Migration Detectors
DB1101A Base for Collective Fire Detectors
SPF600 Detector Base for Sigmasys
DB721 Detector Base with Loop Contact
DB722 Detector Base
BA720 Base Attachment
BA721 Base Attachment Wet
A copy of the certificate, confirming the full scope of approval including notes relating to the superscript references in the above table, may be viewed online by clicking on the product name in the associated entry on www.RedBookLive.com

Certificate No: 126bw to EN54-7:2018, EN 54-17:2005, EN 54-29:2015

Certificated Products		**LPCB Ref. No.**
FDOOT221	Analogue Addressable Multisensor Detector with Short Circuit Isolator (FDB221, FDB222, FDB293, FDB291, FDB295 bases) EN 54-29 and EN 54-7 Settings: Note: The following sensitivity settings are approved: Parameter No. 2 Standard Parameter No. 4 Standard Plus	126bw/01

Bases
FDB201 Base "Collective" with stand offs
FDB202 Base "Collective" without stand offs
FDB221 Base with stand offs
FDB222 Base without stand offs
FDB291 Base Attachment for Surface Mount Cable Entry
FDB293 Base Adaptor Humid
FDB295 Base Attachment Wet
FDB299 Base
DB1101A Base
SPF600 Base
DB1131A Standard base
FDB241 Standard base for special location
DB720 Detector base
DB721 Detector base with loop contract
DB722 Detector base with loop contract
DB721D Detector base with snap lock
BA720 Base with surface mounted line
FDB251 Base adapter
FDB295 Base attachment
DB1151A Base
DB110 Base

A copy of the certificate, confirming the full scope of approval including notes relating to the superscript references in the above table, may be viewed online by clicking on the product name in the associated entry on www.RedBookLive.com

Certificate No: 126bj to EN 54-5:2017 + A1:2018, EN 54-17:2005

Certificated Products		**LPCB Ref. No.**
FDT221	Analogue Addressable Rate of Rise Heat Detector with Short Circuit Isolator (FDB221, FDB222, FDB291, FDB292 and FDB293 bases) Note: Meets EN 54-5:2017 + A1:2018 at Class A1R and BR	126bj/01
FDT241	Analogue Addressable Rate of Rise Heat Detector with Short Circuit Isolator (FDB221, FDB222, FDB291, FDB293 and FDB295 bases) Note: Meets EN 54-5:2017 + A1:2018 at Class A1R, A1S, BR and BS	126bj/02

Bases:
FDB221 Addressable Detector Base

FDB222	Addressable Flat Detector Base
FDB291	Base Attachment for Surface Mount Cable Entry
FDB292	Base Attachment Surface Wet
FDB293	Base Adaptor Humid
FDB295	Base Adaptor Wet
DB720	Detector Base
DB721	Detector Base with Loop Contact
DB722	Detector Base
BA720	Base Adaptor
BA721	Base Adaptor

A copy of the certificate, confirming the full scope of approval including notes relating to the superscript references in the above table, may be viewed online by clicking on the product name in the associated entry on www.RedBookLive.com

Certificate No: 126bc to EN 54-10:2002 + A1:2005, EN 54-17:2005

Certificated Products		LPCB Ref. No.
FDF241-9	Analogue Addressable Infra-Red Flame Detector with Short Circuit Isolator (FDFB291 base) Note: Certified to EN54-10: 2002 + A1: 2005 at Class 1 and 2	126bc/05

Base

FDFB291 Base

A copy of the certificate, confirming the full scope of approval including notes relating to the superscript references in the above table, may be viewed online by clicking on the product name in the associated entry on www.RedBookLive.com

Certificate No: 531e-(cl-1) to EN 54-7:2018, EN 54-17:2005

Certificated Products		LPCB Ref. No.
OP720	Analogue Addressable Optical Smoke Detector with Short Circuit Isolator (DB720, DB721, DB722 bases, BA720, BA721 base adaptor) Note: 1. Meets the requirements of EN 54-7 in the following sensitivities: • Standard 2.5%/m - Sensitive 1.8%/m	531e/01
OP360	Analogue Addressable Optical Smoke Detector with Short Circuit Isolator (DB720, DB721, DB722 bases, BA720, BA721 base adaptor) Note: 1. Meets the requirements of EN 54-7 in the following sensitivity: Standard 2.5%/m	531e/04

Bases

DB720 Detector base
DB721 Detector base with loop contact
DB722 Detector base
BA720 Base adaptor
BA721 Base adaptor

A copy of the certificate, confirming the full scope of approval including notes relating to the superscript references in the above table, may be viewed online by clicking on the product name in the associated entry on www.RedBookLive.com

Certificate No: 531f-(cl-1) to EN 54-5:2017 + A1:2018, EN 54-17:2005

Certificated Products		LPCB Ref. No.
HI720	Analogue Addressable Class A2S and A2R Heat Detector with Short Circuit Isolator (DB720, DB721, DB722 bases, BA720, BA721 base adaptor) Notes: Meets the requirements of EN 54-5 at classes A2S and A2R	531f/01
HI722	Analogue Addressable Class A2S Heat Detector with Short Circuit Isolator (DB720, DB721, DB722 bases, BA720, BA721 base adaptor) Notes:	531f/02

Certificated Products		LPCB Ref. No.
	Meets the requirements of EN 54-5 at class A2S	
HI360	Analogue Addressable Class A2S and A2R Heat Detector with Short Circuit Isolator (DB721, DB722, DB720 bases, BA720, BA721 base adaptor) Note: Meets the requirements of EN 54-5 at classes A2S and A2R	531f/05

Bases

DB720 Detector base
DB721 Detector base with loop contact
DB722 Detector base
BA720 base adaptor
BA721 base adaptor

A copy of the certificate, confirming the full scope of approval including notes relating to the superscript references in the above table, may be viewed online by clicking on the product name in the associated entry on www.RedBookLive.com

Certificate No: 126bv to EN 54-5:2017 + A1:2018, EN 54-7:2018, EN 54-17:2005, EN 54-29:2015

Certificated Products		LPCB Ref. No.
FDOOT241-A5	Analogue Addressable Multisensor Detector with Short Circuit Isolator (DB1151A, FDB251, FDB295, FDB221, FDB222, FDB291 and FDB293 Bases) Notes: 1. The following modes are approved when used with Sinteso FDnet protocol: EN 54-29 and EN 54-7 Settings: Mode 0 - “Neural Fire Detector” Parameter No Robust 2 Balanced 4 Suppression 5 Fast Response 6 High Compensation 7 High Sensitive Fast 9 Super Sensitive 11 EN 54-5 Settings: Mode 1 - “Heat Detector” Parameter No A1R 1 BR 2 A1S 3 BS 4 EN 54-7 Settings: Mode 2 - “Smoke Detector” Parameter No Universal 1 Robust 2 Sensitive 3 Super Sensitive 5 2. The following modes are approved when used with the AlgoRex Interactive protocol: EN 54-29 and EN 54-7 Settings: Mode 0 - “Neural Fire Detector” Parameter No Balanced 4 Suppression 5 Fast Response 6 High Sensitive Fast 9 Super Sensitive 11 EN 54-5 Settings: Mode 1 - “Heat Detector” Parameter No A1R 1 BR 2 A1S 3 BS 4	126bv/01

Certificated Products		LPCB Ref. No.

EN 54-7 Settings:
Mode 2 - “Smoke Detector”

Parameter		No
Universal	1	
Sensitive	3	
Super Sensitive		5

3. Refer to manufacturer’s documentation A6V10323158 when making changes to interactive protocol and replacing the following detectors.
DOT1151A, DOT1152A replaced by FDOOT241-A5
EN 54-29 and EN 54-7 Settings:
Mode 0 - “Neural Fire Detector - Multisensor Detector”

Parameter		No	legacy setting
Balanced	4	APS005S, APS006S, APS015S, APS019S, APS009S, APS082S	
Suppression		5	APS084S
Fast Response		6	APS007S, APS085S
High Sensitive Fast	9	APS081S	
Super Sensitive		11	APS080S

DT1152A replaced by FDOOT241-A5
EN 54-5 Settings:
Mode 1 - “Heat Detector”

Parameter	No	legacy setting
A1R	1	APS100T
BR	2	APS105T
A1S	3	APS103T
BS	4	APS107T

Smoke detector DO1151A, DO1152A replaced by FDOOT241-A5
EN 54-7 Settings:
Mode 2 - “Smoke detector”

Parameter		No	legacy setting
Universal	1	APS005S	
Sensitive	3	APS006S	
Super Sensitive		5	APS007S, APS009S

Smoke detector DO1153A replaced by FDOOT241-A5
EN 54-7 Settings:
Mode 2 - “Smoke detector”

Parameter	No	legacy setting
Super Sensitive	5	APS073SH

FDOOT241-A3 — Analogue Addressable Multisensor Detector with Short Circuit Isolator (FDB221, FDB222, DB1131A, FDB291, FDB293, FDB295 and FDB241 bases) — 126bv/02

Note - the following modes are approved
1 - Parameter sets for detection when connected to FDnet communication Protocol

EN 54-29 and EN 54-7 Settings:
Mode 0 - "Neural Fire Detector-Multisensor Detector":

Parameter	No
Robust	2
Balanced	4
Suppression	5
Fast Response	6
High Compensation	7
High Sensitive Fast	9
Super Sensitive	11

EN 54-5 Settings:
Mode 1 - "Heat Detector"

Parameter	No
A1R	1
BR	2
A1S	3
BS	4

EN 54-7 Settings:
Mode 2 - "Smoke Detector"

Parameter	No
Universal	1
Robust	2

Certificated Products		LPCB Ref. No.

Sensitive 3
Super Sensitive 5

2 - Parameter sets for detection when connected to AnalogPLUS communication protocol

Smoke only as DO1131A

Parameter	No
Sensitive	3
Universal Fast	4

Smoke with heat enhancement as DOT1131A

Parameter	No
Fast Response	6
Universal Fast	12

Rate of Rise heat detection as DT1131A

Parameter	No
A1R	1

Fixed temperature heat detection as DT1132A

Parameter	No
BS	4

FDOOT241-A9 — Analogue Addressable Multisensor Detector with Short Circuit Isolator (FDB221, FDB222, FDB201, FDB202, FDB299, FDB291, FDB293, FDB295, DB1101A and SPF600 bases) — 126bv/03

Note: - the following modes are approved
1 - Parameter sets for detection when connected to FDnet communication protocol and collective detector line

EN 54-29 and EN 54-7 Settings:
Mode 0 - "Neural Fire Detector-Multisensor Detector":

Parameter	No
Robust	2
Balanced	4
Suppression	5
Fast Response	6
High Compensation	7
High Sensitive Fast	9
Super Sensitive	11

EN 54-5 Settings:
Mode 1 - "Heat Detector":

Parameter	No
A1R	1
BR	2
A1S	3
BS	4

EN 54-7 Settings:
Mode 2 - "Smoke Detector":

Parameter	No
Universal	1
Robust	2
Sensitive	3
Super Sensitive	5

OOH740 — Analogue Addressable Multisensor Detector with Short Circuit Isolator (DB720, DB721, DB722, BA720, BA721, DB721D & DB110 bases) — 126bv/04

Note: - the following modes are approved
1 - Parameter sets for detection when connected to C-Net detector line

EN 54-29 and EN-54-7 Settings:
Mode 0 - "Neural Fire Detector"

Parameter	No
Robust	2
Balanced	4
Suppression	5
Fast Response	6
High Compensation	7
High Sensitive Fast	9

Certificated Products		LPCB Ref. No.
	EN 54-5 Settings: Mode 1 - "Heat Detector" Parameter No A1R 1 BR 2 A1S 3 BS 4 EN 54-7 Settings: Mode 2 - "Smoke Detector" Parameter No Universal 1 Robust 2 Sensitive 3 Super Sensitive 5 2 - Parameter sets for detection when connected to collective detector line Parameter Resistor value in detector base Standard Plus - Suppression 33 K High Sensitive Fast 68 K	
FDOOT241-A	Analogue Addressable Multisensor Detector with Short Circuit Isolator (FDB221, FDB222, FDB291, FDB293, FDB295 bases) Note: - the following modes are approved 1 - Parameter sets for detection when connected to FDnet communication protocol and collective detector line EN 54-29 and EN 54-7 Settings: Mode 0 - "Multisensor Detector": Parameter No Robust 2 Balanced 4 Suppression 5 Fast Response 6 High Compensation 7 High Sensitive Fast 9 EN 54-5 Settings: Mode 1 - "Heat Detector": Parameter No A1R 1 BR 2 A1S 3 BS 4 EN 54-7 Settings: Mode 2 - "Smoke Detector": Parameter No Universal 1 Robust 2 Sensitive 3 Super Sensitive 5	126bv/05
FDOOTC241	Analogue Addressable Multisensor Detector with Short Circuit Isolator (FDB221, FDB222, FDB295, FDSB291 & FDSB293 bases) Note - the following modes are approved: Mode 0 - Neural Fire Detector: 0.0 High Compensation 0.2 Robust 0.4 Balanced 0.5 Suppression 0.6 Fast Response 0.7 High Compensation 0.9 High Sensitive Fast 0.10 Balanced CO 0.12 Suppression CO Mode 1 - Heat Detector 1.1 A1R 1.2 BR	126bv/06

Certificated Products		LPCB Ref. No.
	1.3 A1S 1.4 BS Mode 2 - Smoke Detector 2.0 Universal 2.1 Universal 2.2 Robust 2.3 Sensitive	
OOHC740	Analogue Addressable Multisensor Detector with Short Circuit Isolator (DB720, DB721, DB722, BA720 and BA721 bases) Note: - the following modes are approved 1 - Parameter sets for detection when connected to C-Net detector line Mode 0 - "Neural Fire Detector" Parameter No Robust 2 Balanced 4 Suppression 5 Fast Response 6 High Compensation 7 High Sensitive Fast 9 Mode 1 - "Heat Detector" Parameter No A1R 1 BR 2 A1S 3 BS 4 Mode 2 - "Smoke Detector" Parameter No Universal 1 Robust 2 Sensitive 3	126bv/08

Bases

FDB221 Addressable Detector Base
FDB222 Addressable Flat Detector Base
DB1151A Base for Sinteso & AlgoRex systems
DB1131A Base for Analog Plus Fire Detectors
FDB251 Base Attachment for Sinteso & AlgoRex systems
FDB295 Base Attachment Wet
FDB291 Base Attachment for Surface Mount Cable Entry
FDB293 Base Attachment Humid
FDB241 Base Adaptor for Migration Detectors
FDB201 Detector Base Collective
FDB202 Detector Base Collective, Flat
FDB299 Base Adaptor for Migration Detectors
DB1101A Base for Collective Fire Detectors
SPF600 Detector Base for Sigmasys
DB720 Detector base
DB721 Detector base with loop contact
DB722 Detector base with loop contact
DB721D Detector base with snap lock
BA720 Base with surface mounted line
BA721 Base Attachment Wet
DB110 Base

A copy of the certificate, confirming the full scope of approval including notes relating to the superscript references in the above table, may be viewed online by clicking on the product name in the associated entry on www.RedBookLive.com

SMS (Novar Systems Ltd)

Building 5, Carlton Park, King Edward Avenue, Narborough, Leicester LE19 0AL, United Kingdom
Tel: +44 (0)116 246 2100 • Fax: +44 (0)116 246 2016
Website: www.smsfire.co.uk

Point Heat Detectors

Bases:
S4-700 standard base
S4-FLUSH semi-flush fixing kit

Certificate No: 042an to EN 54-7: 2018, EN 54-5: 2017 + A1: 2018, EN 54-3:2014 + A1:2019, EN 54-17: 2005, EN 54-18: 2005 and CEA 4021: 2003,
Certificate No: 042bf to EN54-5: 2017 + A1: 2018, EN54-7: 2018, EN54-17: 2005, EN54-18: 2005

Multi Criteria Detectors

Certificated Products		LPCB Ref. No.
SEN-770	S-Quad analogue addressable optical smoke and Category A1 heat multisensor detector with sounder (S4-700 Standard base with or without S4-FLUSH semi-flush mounting kit) *Notes:* *1. Meets the requirement of EN 54-5 and EN 54-7 at the following settings:* *State 0 - Medium optical / Category A1 heat* *2. Meets the requirements of EN 54-3 at the following sounder tone settings:* *High - Continuous 933 Hz* *Alternate - High 933 Hz for 0.25 secs / Low 700 Hz for 0.25 secs*	042an/04
SEN-710	S-Quad Analogue Addressable Optical Smoke and Category A1 Heat Multi-Sensor Detector (S4-700 Standard base with or without S4-FLUSH semi-flush mounting kit) Note: 1. Meets the requirement of EN 54-5 and EN 54-7 at the following settings except where otherwise stated: State 0 - Medium optical / Category A1 heat State 2 - Low sensitivity / Category A1 heat* State 3 - High sensitivity / Category A1 heat State 4 - Medium optical (no spoke) / Category A1 heat State 5 - Medium optical / Category B heat State 6 - Low sensitivity / Category BS heat* State 7 - Medium optical / Category A2S heat State 8 - Delayed medium optical / Category A1 heat State 11 - Low sensitivity / Category B heat* State 12 - Off / Category A1 heat* *Does not meet the requirement of EN 54-7	042bf/01

Bases:
S4-700 standard base
S4-701 S4 Quad Plate and Base
S4-FLUSH Semi-flush fixing kit

Certificate No: 042be to EN54-5: 2017 + A1: 2018, EN54-17: 2005, EN54-18: 2005
Certificate No: 042bd to EN54-7: 2018, EN54-17: 2005, EN54-18: 2005

Point Smoke Detectors

Certificated Products		LPCB Ref. No.
SEN-715	S-Quad Analogue Addressable Optical Smoke Detector with Short Circuit Isolator (S4-700 Standard base with or without S4-FLUSH semi-flush mounting kit) *Note:* 1. Meets the requirements of EN 54-7 at the following settings: - State 0 - Medium optical - *State 3 - High sensitivity* - State 4 - Medium optical (no spike) - State 8 - Delayed medium optical	042bd/01

Certificated Products		LPCB Ref. No.
SEN-720	S-Quad Analogue Addressable Category P Heat Detector with Short Circuit Isolator (S4-700 Standard base with or without S4-FLUSH semi-flush mounting kit) Note: 1. Meets the requirement of EN 54-5 at the following settings: - State 0 - Category A1 heat - State 5 - Category B heat - State 6 - Category BS heat - State 7 - Category A2S heat - State 13 - Category A2 heat	042be/01

Bases:
S4-700 standard base
S4-FLUSH semi-flush fixing kit

Certificate No: 042bh to EN 54-12:2015 & EN 54-17:2005

Beam Detectors

Certificated Products		LPCB Ref. No.
SENTRI-BEAM	Analogue addressable optical beam smoke detector with short circuit isolator (SEN-741-01, SEN-741-03 and S4-700 base) Notes: 1. The SENTRI-BEAM sensor pair comprises of an SENTRI-BEAM-TX beam transmitter, plus an SENTRI-BEAM-RX beam receiver. 2. Meets the requirements of EN 54-12 at the following sensitivity settings: States 0, 1: 3.01dB States 2, 3: 1.25dB	042bh/01

SEN-741-01	Beam Angle Bracket
SEN-741-03	Beam Parallel Bracket
S4-700	Base

Certificate No: 567ac-(cl-1) to EN 54-3:2014 + A1:2019, EN54-5: 2017 + A1: 2018, EN54-17: 2005, EN54-18: 2005, EN54-23: 2010

Multi-Sensor/Multi-Criteria Detectors

Certificated Products		LPCB Ref. No.
SEN-780-VAD-HPR	Analogue Addressable Category P Heat Sensor with Red Visual Alarm and Sounder with Short Circuit Isolator (S4-701 Base) Notes: 1. Meets the requirements of EN 54-3 at the following sounder tone settings: - High - Continuous 933 Hz - Alternate - High 933 Hz for 0.25 secs / Low 700 Hz for 0.25 secs 2. Meets the requirements of EN 54-5 at the following settings: - State 0 - Category A1 heat - State 5 - Category B heat - State 6 - Category BS Heat - State 7 - Category A2S heat - State 13 - Category A2 heat 3. The ceiling mounted Visual Alarm Device (VAD) meets the requirements of EN 54-23 or the following category (light pattern details): - High power setting - (Category C: C-3-14 and Category O: O-4.5-14) - Medium power setting - (Category C: C-3-13 and Category O: O-4-13) - Low power setting - (Category C: C-3-10 and Category O: None) - Synchronization - Flash rate 2 seconds (0.5Hz) 4. Must be used with the S4-701 base and IP seal plate in order to achieve IP21C	567ac/03
SEN-780-VAD-LPW	Analogue Addressable Category P Heat Sensor with White Visual Alarm and Sounder with Short Circuit Isolator (S4-701 Base) Notes: 1. Meets the requirements of EN 54-3 at the following sounder tone settings: - High - Continuous 933 Hz - Alternate - High 933 Hz for 0.25 secs / Low 700 Hz for 0.25 secs 2. Meets the requirements of EN 54-5 at the following settings: - State 0 - Category A1 heat - State 5 - Category B heat - State 6 - Category BS Heat	567ac/04

Certificated Products		LPCB Ref. No.
	- State 7 - Category A2S heat - State 13 - Category A2 heat 3. The ceiling mounted Visual Alarm Device (VAD) meets the requirements of EN 54-23 for the following category (light pattern details): - Low power setting - (Category C: C-3-10 and Category O: None) - Synchronization - Flash rate 2 seconds (0.5Hz) 4. Must be used with the S4-701 base and IP seal plate in order to achieve IP21C	
SEN-780-VAD-HPW	Analogue Addressable Category P Heat Sensor with White Visual Alarm and Sounder with Short Circuit Isolator (S4-701 Base) Notes: 1. Meets the requirements of EN 54-3 at the following sounder tone settings: - High- Continuous 933 Hz - Alternate - High 933 Hz for 0.25 secs / Low 700 Hz for 0.25 secs 2. Meets the requirements of EN 54-5 at the following settings: - State 0 - Category A1 heat - State 5 - Category B heat - State 6 - Category BS Heat - State 7 - Category A2S heat - State 13 - Category A2 heat 3. The ceiling mounted Visual Alarm Device (VAD) meets the requirements of EN 54-23 category (light pattern details): - High power setting - (Category C: C-6-16 and Category O: None) - Medium power setting - (Category C: C-3-14 and Category O: O-5-14) - Low power setting - (Category C: C-3-10.8 and Category O: O-4-10.8 - Synchronization - Flash rate 2 seconds (0.5Hz) 4. Must be used with the S4-701 base and IP seal plate in order to achieve IP21C	567ac/05
SEN-M-780-VAD-HPR	SENTRI M Heat Sensor, Sounder & High Power Red VAD (S4-701 Base) Notes: 1. Meets the requirements of EN 54-3 at the following sounder tone settings: - High - Continuous 933 Hz - Alternate - High 933 Hz for 0.25 secs / Low 700 Hz for 0.25 secs 2. Meets the requirements of EN 54-5 at the following settings: - State 0 - Category A1 heat - State 5 - Category B heat - State 6 - Category BS heat - State 7 - Category A2S heat - State 13 - Category A2 heat 3. The ceiling mounted Visual Alarm Device (VAD) meets the requirements of EN 54-23 for the following category (light pattern details): - Low power setting - (Category C: C-3-10 and Category O: None) - Synchronization - Flash rate 2 seconds (0.5Hz) 4. Must be used with the S4-701 base and IP seal plate in order to achieve IP21C	567ac/08

Bases:
S4-701 S4 Quad Plate and Base

A copy of the certificate, confirming the full scope of approval including notes relating to the superscript references in the above table, may be viewed online by clicking on the product name in the associated entry on www.RedBookLive.com

Certificate No: 567j-(cl-1) to EN 54-3:2014 + A1:2019, EN54-5: 2017 + A1 :2018, EN 54-7: 2018, EN 54-17: 2005, EN54-18: 2005

Multi-Sensor/Multi-Criteria Detectors

Certificated Products		LPCB Ref. No.
SEN-770-S	Analogue Addressable Optical Smoke and Category P Heat Multi-Sensor Detector with Sounder (S4-700 Standard base with or without S4-FLUSH semi-flush mounting kit) Notes:1. Meets the requirements of EN 54-3 at the following sounder tone settings: High - Continuous 933 Hz Alternate - High 933 Hz for 0.25 secs / Low 700 Hz for 0.25 secs 2. Meets the requirements of EN 54-5 and EN 54-7 at the following settings except where otherwise stated: - State 0 - Medium optical / Category A1 heat - State 2 - Low sensitivity / Category A1 heat* - State 3 - High sensitivity / Category A1 heat	567j/08

Certificated Products		LPCB Ref. No.
	- State 4 - Medium optical (no spike) / Category A1 heat - State 5 - Medium optical / Category B heat - State 6 - Low sensitivity / Category BS heat* - State 7 - Medium optical / Category A2S heat - State 8 - Delayed medium optical / Category A1 heat - State 11 - Low sensitivity / Category B heat* - State 12 - Off / Category A1 heat* *Does not meet the requirements of EN 54-7	
SEN-M-770-S	Analogue Addressable Optical Smoke and Category P Heat Multi-Sensor Detector with Sounder (S4-700 Standard Base with or without S4-FLUSH Semi-flush mounting kit) Notes: 1. Meets the requirements of EN 54-3 at the following sounder tone settings: - High- Continuous 933 Hz - Alternate - High 933 Hz for 0.25 secs / Low 700 Hz for 0.25 secs 2. Meets the requirement of EN 54-5 and EN 54-7 at the following settings except where otherwise stated: - State 0 - Medium optical / Category A1 heat - State 2 - Low sensitivity / Category A1 heat* - State 3 - High sensitivity / Category A1 heat - State 4 - Medium optical (no spike) / Category A1 heat - State 5 - Medium optical / Category B heat - State 6 - Low sensitivity / Category BS heat* - State 7 - Medium optical / Category A2S heat - State 8 - Delayed medium optical / Category A1 heat - State 11 - Low sensitivity / Category B heat* - State 12 - Off / Category A1 heat* *Does not meet with the requirements of EN 54-7	567j/12

Bases:
S4-700 standard base
S4-FLUSH Semi-flush fixing kit

A copy of the certificate, confirming the full scope of approval including notes relating to the superscript references in the above table, may be viewed online by clicking on the product name in the associated entry on www.RedBookLive.com

Certificate No: 567ab-(cl-1) to EN 54-3:2014 + A1:2019, EN54-5: 2017 + A1: 2018, EN 54-7: 2018, EN54-17: 2005, EN54-18: 2005, EN 54-23: 2010

Multi-Sensor/Multi-Criteria Detectors

Certificated Products		LPCB Ref. No.
SEN-770-VAD-HPR	Analogue Addressable Optical Smoke and Category P Heat Multi-Sensor Detector with Sounder and Red Visual Alarm (S4-701 Base) Notes: 1. Meets the requirements of EN 54-3 at the following sounder tone settings: - High- Continuous 933 Hz - Alternate - High 933 Hz for 0.25 secs / Low 700 Hz for 0.25 secs 2. Meets the requirements of EN 54-5 and EN 54-7 at the following settings except where otherwise stated: - State 0 - Medium optical / Category A1 heat - State 2 - Low sensitivity / Category A1 heat* - State 3 - High sensitivity / Category A1 heat - State 4 - Medium optical (no spike) / Category A1 heat - State 5 - Medium optical / Category B heat - State 6 - Low sensitivity / Category BS heat* - State 7 - Medium optical / Category A2S heat - State 8 - Delayed medium optical / Category A1 heat - State 11 - Low sensitivity / Category B heat* - State 12 - Off / Category A1 heat* *Does not meet the requirements of EN 54-7 3. The ceiling mounted Visual Alarm Device (VAD) meets the requirements of EN 54-23 for the following category (light pattern details): - High power setting - (Category C: C-3-14 and Category O: O-4.5-14) - Medium power setting - (Category C: C-3-13 and Category O: O-4-13) - Low power setting - (Category C: C-3-10) - Synchronization - Flash rate 2 seconds (0.5Hz) 4. Must be used with the S4-701 base and IP seal plate in order to achieve IP21C	567ab/01
SEN-770-VAD-HPW	Analogue Addressable Optical Smoke and Category P Heat Multi-Sensor Detector with Sounder and White Visual Alarm (S4-701 Base)	567ab/02

Certificated Products		LPCB Ref. No.
	Notes: 1. Meets the requirements of EN 54-3 at the following sounder tone settings: - High- Continuous 933 Hz - Alternate - High 933 Hz for 0.25 secs / Low 700 Hz for 0.25 secs 2. Meets the requirements of EN 54-5 and EN 54-7 at the following settings except where otherwise stated: - State 0 - Medium optical / Category A1 heat - State 2 - Low sensitivity / Category A1 heat* - State 3 - High sensitivity / Category A1 heat - State 4 - Medium optical (no spike) / Category A1 heat - State 5 - Medium optical / Category B heat - State 6 - Low sensitivity / Category BS heat* - State 7 - Medium optical / Category A2S heat - State 8 - Delayed medium optical / Category A1 heat - State 11 - Low sensitivity / Category B heat* - State 12 - Off / Category A1 heat* *Does not meet the requirements of EN 54-7 3. The ceiling mounted Visual Alarm Device (VAD) meets the requirements of EN 54-23 for the following category (light pattern details): - High power setting - (Category C: C-6-16) - Medium power setting - (Category C: C-3-14 and Category O: O-5-14) - Low power setting - (Category C: C-3-10.8 and Category O: O-4-10.8 - Synchronization - Flash rate 2 seconds (0.5Hz) 4. Must be used with the S4-701 base and IP seal plate in order to achieve IP21C	
SEN-770-VAD-LPW	Analogue Addressable Optical Smoke and Category P Heat Multi-Sensor Detector with Sounder and White Visual Alarm (S4-701 Base) Notes: 1. Meets the requirements of EN 54-3 at the following sounder tone settings: - High- Continuous 933 Hz - Alternate - High 933 Hz for 0.25 secs / Low 700 Hz for 0.25 secs 2. Meets the requirements of EN 54-5 and EN 54-7 at the following settings except where otherwise stated: - State 0 - Medium optical / Category A1 heat - State 2 - Low sensitivity / Category A1 heat* - State 3 - High sensitivity / Category A1 heat - State 4 - Medium optical (no spike) / Category A1 heat - State 5 - Medium optical / Category B heat - State 6 - Low sensitivity / Category BS heat* - State 7 - Medium optical / Category A2S heat - State 8 - Delayed medium optical / Category A1 heat - State 11 - Low sensitivity / Category B heat* - State 12 - Off / Category A1 heat* *Does not meet the requirements of EN 54-7 3. The ceiling mounted Visual Alarm Device (VAD) meets the requirements of EN 54-23 for the following category (light pattern details): - Low power setting - (Category C: C-3-10) - Synchronization - Flash rate 2 seconds (0.5Hz) 4. Must be used with the S4-701 base and IP seal plate in order to achieve IP21C	567ab/03
SEN-770-VAD-LPR	Analogue Addressable Optical Smoke and Category P Heat Multi-Sensor Detector with Sounder and Red Visual Alarm (S4-701 Base) Notes: 1. Meets the requirements of EN 54-3 at the following sounder tone settings: - High- Continuous 933 Hz - Alternate - High 933 Hz for 0.25 secs / Low 700 Hz for 0.25 secs 2. Meets the requirements of EN 54-5 and EN 54-7 at the following settings: - State 0 - Medium Optical / Category A1 Heat - State 5 - Medium Optical / Category B Heat - State 8 - Delayed Medium Optical / Category A1 Heat 3. The ceiling mounted Visual Alarm Device (VAD) meets the requirements of EN 54-23 for the following category (light pattern details): - Low power setting - (Category C: C-3-10) - Synchronization - Flash rate 2 seconds (0.5Hz) 4. Must be used with the S4-701 base and IP seal plate in order to achieve IP21C	567ab/09
SEN-M-770-VAD-HPR	SENTRI M Optical Heat Sensor, Sounder & High Power Red VAD (S4-701 Base and S4-700-34K) Notes: 1. Meets the requirements of EN 54-3 at the following sounder tone settings: - High - Continuous 933 Hz - Alternate - High 933 Hz for 0.25 secs / Low 700 Hz for 0.25 secs	567ab/18

Certificated Products		LPCB Ref. No.
	2. Meets the requirements of EN 54-5 and EN 54-7 at the following settings except where otherwise stated: - State 0 - Medium optical / Category A1 heat - State 2 - Low sensitivity / Category A1 heat* - State 3 - High sensitivity / Category A1 heat - State 4 - Medium optical (no spike) / Category A1 heat - State 5 - Medium optical / Category B heat - State 6 - Low sensitivity / Category BS heat* - State 7 - Medium optical / Category A2S heat - State 8 - Delayed medium optical / Category A1 heat - State 11 - Low sensitivity / Category B heat* - State 12 - Off / Category A1 heat* *Does not meet the requirements of EN 54-7 3. The ceiling mounted Visual Alarm Device (VAD) meets the requirements of EN 54-23 for the following category (light pattern details): - Low power setting - (Category C: C-3-10) - Synchronization - Flash rate 2 seconds (0.5Hz) 4. Must be used with the S4-701 base and IP seal plate in order to achieve IP21C	
SEN-M-770-VAD-LPR	SENTRI M Optical Heat Sensor, Sounder & Low Power Red VAD (S4-701 Base and S4-700-34K) Notes: 1. Meets the requirements of EN 54-3 at the following sounder tone settings: - High - Continuous 933 Hz - Alternate - High 933 Hz for 0.25 secs / Low 700 Hz for 0.25 secs 2. Meets the requirements of EN 54-5 and EN 54-7 at the following settings except where otherwise stated: - State 0 - Medium optical / Category A1 heat - State 2 - Low sensitivity / Category A1 heat* - State 3 - High sensitivity / Category A1 heat - State 4 - Medium optical (no spike) / Category A1 heat - State 5 - Medium optical / Category B heat - State 6 - Low sensitivity / Category BS heat* - State 7 - Medium optical / Category A2S heat - State 8 - Delayed medium optical / Category A1 heat - State 11 - Low sensitivity / Category B heat* - State 12 - Off / Category A1 heat* *Does not meet the requirements of EN 54-7 3. The ceiling mounted Visual Alarm Device (VAD) meets the requirements of EN 54-23 for the following category (light pattern details): - Low power setting - (Category C: C-3-10) - Synchronization - Flash rate 2 seconds (0.5Hz) 4. Must be used with the S4-701 base and IP seal plate in order to achieve IP21C	567ab/19

Bases:
S4-701 S4 Quad Plate and Base

A copy of the certificate, confirming the full scope of approval including notes relating to the superscript references in the above table, may be viewed online by clicking on the product name in the associated entry on www.RedBookLive.com

Certificate No: 567aa-(cl-1) to EN54-5: 2017 + A1: 2018, EN 54-3:2014 + A1:2019, EN54-17: 2005, EN54-18: 2005

Multi-Sensor/Multi-Criteria Detectors

Certificated Products		LPCB Ref. No.
SEN-780-S	Analogue Addressable Category P Heat Sensor with Sounder with Short Circuit Isolator (S4-700 Standard base) Notes:1. Meets the requirements of EN 54-3 at the following sounder tone settings: High - Continuous 933 Hz Alternate - High 933 Hz for 0.25 secs / Low 700 Hz for 0.25 secs 2. Meets the requirements of EN 54-5 at the following settings: - State 0 - Category A1 heat - State 5 - Category B heat - State 6 - Category BS heat - State 7 - Category A2S heat - State 13 - Category A2 heat	567aa/01
SEN-M-780-S	Analogue Addressable Category P Heat Sensor with Sounder with Short Circuit Isolator (S4-700, S4-700-34K and S4 FLUSH) Notes:	567aa/02

Certificated Products		LPCB Ref. No.
	1. Meets the requirements of EN 54-3 at the following sounder tone settings: - High - Continuous 933 Hz - Alternate - High 933 Hz for 0.25 secs / Low 700 Hz for 0.25 secs 2. Meets the requirements of EN 54-5 at the following settings: - State 0 - Category A1 heat - State 5 - Category B heat - State 6 - Category BS heat - State 7 - Category A2S heat - State 13 - Category A2 heat	

Bases:
S4-700 standard base
S4-701 S4 Quad Plate and Base
S4-FLUSH Semi-flush fixing kit

A copy of the certificate, confirming the full scope of approval including notes relating to the superscript references in the above table, may be viewed online by clicking on the product name in the associated entry on www.RedBookLive.com

---

Syncoln Ltd

3rd Floor, 14 Hanover Street, Mayfair, London W1S 1YH, United Kingdom
Tel: +44 (0)207 514 5813
E-mail: sales@syncoln.com • Website: www.syncoln.com

Certificate No: 010p-(cl-6) to EN 54-5:2017 +A1:2018

Heat Detectors

Certificated Products		LPCB Ref. No.
5000-300	Syncoln Analogue Addressable Heat Detector (5000-100 base) *Notes:* *1. Meets the requirements of EN54: Part 5 at the following modes:* *- Category A1R in mode 1 and in conventional mode* *- Category A2 in mode 2 and in conventional mode* *- Category A2S in mode 3 and in conventional mode* *- Category CR in mode 4 and in conventional mode* *- Category CS in mode 5 and in conventional mode* *Certified with Apollo Discovery, XP95, and S90 digital communications protocols configured for the Discovery Heat Detector in accordance with manufacturers instructions.*	010p/03
2000-300	Syncoln Series 27 A1R Heat Detector with Flashing LED (2000-100 base) *Note:* *Meets the requirements of EN54: Part 5 at Category A1R*	010p/05
2000-301	Syncoln Series 27 BR Heat Detector with Flashing LED (2000-100 base) *Note:* *1. Meets the requirements of EN54: Part 5 at Category BR*	010p/08
2000-302	Syncoln Series 27 CS Heat Detector with Flashing LED (2000-100 base) *Note:* *1. Meets the requirements of EN54: Part 5 at Category CS*	010p/14

Bases
2000-100 Syncoln Series 27 Standard Base
5000-100 Syncoln Mounting Base

A copy of the certificate, confirming the full scope of approval including notes relating to the superscript references in the above table, may be viewed online by clicking on the product name in the associated entry on www.RedBookLive.com

Certificate No: 010q-(cl-6) to EN 54-7:2018

Smoke Detectors

Certificated Products		LPCB Ref. No.
5000-200	Syncoln Analogue Addressable Photoelectric Smoke Detector (5000-100 base) *Note:* *1. Meets the requirements of EN54: Part 7 in modes 1, 2, 3, 4 and 5 and inconventional mode.* *Certified with Apollo Discovery, XP95, and S90 digital communicationprotocols that have been configured for the Discovery optical smoke detectors in accordance with manufacturer's instructions.*	010q/03
2000-200	Syncoln Series 27 Optical Smoke Detector with Flashing LED (2000-100 base)	010q/11

Bases

2000-100	Syncoln Series 27 Standard Base
5000-100	Syncoln Mounting Base

A copy of the certificate, confirming the full scope of approval including notes relating to the superscript references in the above table, may be viewed online by clicking on the product name in the associated entry on www.RedBookLive.com

Certificate No: 010h-(cl-2) to EN 54-5:2017 + A1:2018, EN 54-7:2018 & CEA 4021:2003

Multi-Sensor/Multi-Criteria Detectors

Certificated Products		LPCB Ref. No.
5000-400	Syncoln Analogue Addressable Multisensor Detector (5000-100 base) *Notes:* *1. Certified at the following settings:* *Mode 1 - High sensitivity smoke detector with standard heat enhancement* *Mode 2 - Smoke detection only* *Mode 3 - Medium sensitivity smoke detector with standard heat enhancement* *Mode 4 - Low sensitivity smoke detector with high heat enhancement* *Mode 5 - Class A1 heat detector* *Also approved in conventional alarm modes 1, 2, 3, 4 and 5* *2. Approved with Apollo Discovery, XP95, and S90 digital communication protocols that have been configured for the Discovery multisensor detector in accordance with manufacturers instructions.*	010h/01

Base
5000-100 Syncoln Mounting Base

A copy of the certificate, confirming the full scope of approval including notes relating to the superscript references in the above table, may be viewed online by clicking on the product name in the associated entry on www.RedBookLive.com

---

Tanda (UK) Limited

Fourth Floor, 30-31 Furnival Street, London EC4A 1JQ, United Kingdom
Tel: +44 8451162945
E-mail: info@tandauk.com • Website: www.tandauk.com

Certificate No: 1330a-(cl-1) to EN 54-12:2015

Beam Detectors

Certificated Products		LPCB Ref. No.
TX7130	Conventional Reflective Beam Detector Notes: 1. Meets the requirements of EN 54-12: 2015 at the following sensitivity settings: Level 1: 2.6 dB High sensitivity Level 2: 3.8 dB Medium sensitivity Level 3: 5.8 dB Low sensitivity 2. Suitable for use at the following separation ranges: Span 1: 8 to 20 meters Short Path (1 x mirror reflector required) Span 2: 20 to 40 meters Short Path (1 x mirror reflector required) Span 3: 40 to 70 meters Normal Path (4 x mirror reflector required) Span 4: 70 to 100 meters Long Path (4 x mirror reflector required)	1330a/01

Accessories:
Mounting Bracket
TX7130-R 1 x Mirror Reflector
TX7130-R 4 x Mirror Reflector
A copy of the certificate, confirming the full scope of approval including notes relating to the superscript references in the above table, may be viewed online by clicking on the product name in the associated entry on www.RedBookLive.com

Certificate No: 1330c-(cl-1) to EN 54-5:2017 +A1:2018

Heat Detectors

Certificated Products		**LPCB Ref. No.**
TX7110	Intelligent Heat Detector (TX7980 Base) *Note:* *1. Meets the requirements of EN 54-5 for Category A1R.*	1330c/01

Base
TX7980 Detector Base

A copy of the certificate, confirming the full scope of approval including notes relating to the superscript references in the above table, may be viewed online by clicking on the product name in the associated entry on www.RedBookLive.com

Certificate No: 1330b-(cl-1) to EN 54-7:2018

Smoke Detectors

Certificated Products		**LPCB Ref. No.**
TX7100	Intelligent Smoke Detector (TX7980 base)	1330b/01

Base
TX7980 Detector base

A copy of the certificate, confirming the full scope of approval including notes relating to the superscript references in the above table, may be viewed online by clicking on the product name in the associated entry on www.RedBookLive.com

Certificate No: 1330j-(cl-1) to EN 54-29:2015

Certificated Products		**LPCB Ref. No.**
TX7120	Intelligent Multi-sensor Fire Detector (TX7980 Base) *Notes:* *Meets the requirements of EN 54-29 for Heat Category A2R*	1330j/01

Base
TX7980

A copy of the certificate, confirming the full scope of approval including notes relating to the superscript references in the above table, may be viewed online by clicking on the product name in the associated entry on www.RedBookLive.com

---

Tanda Development Pte Ltd

21 Bukit Batok Crescent, #15-75 Wcega Tower, Singapore 658065, Singapore
Tel: +86013223307015
E-mail: Wanyuemin@tandatech.com • Website: www.tnafirealarm.com

Certificate No: 1330c-(cl-4) to EN 54-5: 2017+ A1: 2018

Certificated Products		**LPCB Ref. No.**
TX7110	Intelligent Heat Detector (TX7980 Base) *Note:* *1. Meets the requirements of EN 54-5 for Category A1R*	1330c/01

Base
TX7980
A copy of the certificate, confirming the full scope of approval including notes relating to the superscript references in the above table, may be viewed online by clicking on the product name in the associated entry on www.RedBookLive.com

Certificate No: 1330b-(cl-4) to EN 54-7: 2018

Certificated Products		**LPCB Ref. No.**
TX7100	Intelligent Smoke Detector (TX7980 Base)	1330b/01

Base
TX7980
A copy of the certificate, confirming the full scope of approval including notes relating to the superscript references in the above table, may be viewed online by clicking on the product name in the associated entry on www.RedBookLive.com

Certificate No: 1330a-(cl-8) to EN 54-12:2015

Approved Products		**LPCB Ref. No.**
TX7130	Conventional Reflective Beam Detector Notes: 1. Meets the requirements of EN 54-12: 2015 at the following sensitivity settings: - Level 1: 2.6 dB High sensitivity - Level 2: 3.8 dB Medium sensitivity - Level 3: 5.8 dB Low sensitivity 2. Suitable for use at the following separation ranges: - Span 1: 8 to 20 meters Short Path (1 x mirror reflector required) - Span 2: 20 to 40 meters Short Path (1 x mirror reflector required) - Span 3: 40 to 70 meters Normal Path (4 x mirror reflector required) - Span 4: 70 to 100 meters Long Path (4 x mirror reflector required) *Accessories* *Mounting Bracket* *TX7130-R 1 x Mirror Reflector* *TX7130-R 4 x Mirror Reflector*	1330a/01

A copy of the certificate, confirming the full scope of approval including notes relating to the superscript references in the above table, may be viewed online by clicking on the product name in the associated entry on www.RedBookLive.com

Certificate No: 1330j-(cl-4) to EN 54-29:2015

Certificated Products		**LPCB Ref. No.**
TX7120	Intelligent Multi-sensor Fire Detector (TX7980 Base) *Notes:* *Meets the requirements of EN 54-29 for Heat Category A2R*	1330j/01

Base
TX7980

A copy of the certificate, confirming the full scope of approval including notes relating to the superscript references in the above table, may be viewed online by clicking on the product name in the associated entry on www.RedBookLive.com

---

Tanda Technologies (Singapore) Pte Ltd

217 Kallang Bahru, #04-02, Singapore 339347, Singapore
Tel: +62913176 • Fax:
E-mail: tandatech@yahoo.com

Certificate No: 1148a-(cl-1) to EN 54-5:2017 + A1:2018

Heat Detectors

Certificated Products		LPCB Ref. No.
DET-C632	Conventional rate of rise & fixed temperature heat detector (DB-6 standard base) *Note:Meets the requirements of EN 54-5 at Category A2R*	1148a/01

Bases:
DB-6 Standard detector base

A copy of the certificate, confirming the full scope of approval including notes relating to the superscript references in the above table, may be viewed online by clicking on the product name in the associated entry on www.RedBookLive.com

Certificate No: 1148b-(cl-1) to EN 54-7:2018

Smoke Detectors

Certificated Products		LPCB Ref. No.
DET-C631	Conventional Optical Smoke Detector (DB-6 standard base) *Note:Meets the requirements of EN 54-7 in the normal sensitivity setting.*	1148b/01

Bases:
DB-6 Standard detector base

A copy of the certificate, confirming the full scope of approval including notes relating to the superscript references in the above table, may be viewed online by clicking on the product name in the associated entry on www.RedBookLive.com

---

Tecnoalarm S.r.l.

Via Ciriè 38, San Mauro Torinese, Turin 10099, Italy
Tel: +39011 22 35 410 • Fax: +39011 27 35 590
E-mail: info@tecnofiredetection.com • Website: www.tecnofiredetection.com

Certificate No: 1519d to EN 54-5:2000+ A1:2002, EN 54-17: 2005

Certificated Products		LPCB Ref. No.
TFDA-TR1-L	Addressable Class P Heat Detector with Short Circuit Isolator (TFBase-01 Base) *Notes:* *1 Meets the requirements of EN 54-5 for classes A2R, A2S, BR & BS*	1519d/01

Bases

TFBase-01 – Standard Base

A copy of the certificate, confirming the full scope of approval including notes relating to the superscript references in the above table, may be viewed online by clicking on the product name in the associated entry on www.RedBookLive.com

Certificate No: 1519b to EN 54-5:2000 + A1: 2002, EN 54-7: 20000+ A1: 2002+ A2: 2006, EN 54-17: 2005

Certificated Products		LPCB Ref. No.
TFDA-STR1-L	Addressable Smoke and Class A1R Heat Detector with Short Circuit Isolator (TFBase-01-Base) *Notes:* *1 Meets the requirements of EN 54-5 at the following settings* • *Class A1R Heat only* *2 Meets the requirements of EN 54-7 at the following sensitivity settings:* *a. High* *b. Normal* *c. Low*	1519b/01

Bases

TFBase-01 – Standard Base

A copy of the certificate, confirming the full scope of approval including notes relating to the superscript references in the above table, may be viewed online by clicking on the product name in the associated entry on www.RedBookLive.com

Certificate No: 1519c to EN 54-7:2000 + A1: 2002 + A2: 2006 & EN 54-17: 2005

Certificated Products		LPCB Ref. No.
TFDA-S1-L	Addressable Optical Smoke Detector with Short Circuit Isolator (TFBase01- Base) *Notes:* *1. Meets the requirements of EN 54-7 at the following sensitivity settings:* *a. High* *b. Normal* *c. Low*	1519c/01

Bases

TFBase-01 – Standard Base

A copy of the certificate, confirming the full scope of approval including notes relating to the superscript references in the above table, may be viewed online by clicking on the product name in the associated entry on www.RedBookLive.com

Teletek Electronics JSC

14A Srebarna Street, Sofia 1407, Bulgaria
Tel: +359 2 9694 700 • Fax: +359 2 9625 213
E-mail: info@teletek-electronics.bg • Website: www.teletek-electronics.com

Certificate No: 1139j to EN 54-5:2017 + A1: 2018, EN 54-17:2005

Heat Detectors

Certificated Products		LPCB Ref. No.
SensoIRIS T110 IS	Intelligent Analogue Addressable Class A1R Fire Alarm Heat Detector with Built-In Isolator Module (B124 Base)	1139j/01

Base:
B124 Standard analogue addressable detector base
A copy of the certificate, confirming the full scope of approval including notes relating to the superscript references in the above table, may be viewed online by clicking on the product name in the associated entry on www.RedBookLive.com

Certificate No: 1139k to EN 54-7:2018, EN 54-17: 2005

Smoke Detectors

Certificated Products		LPCB Ref. No.
SensoIRIS S130 IS	Intelligent Analogue Addressable Fire Alarm Optical Smoke Detector with Built-In Isolator Module (B124 Base)	1139k/01

Base:
B124 Standard analogue addressable detector base
A copy of the certificate, confirming the full scope of approval including notes relating to the superscript references in the above table, may be viewed online by clicking on the product name in the associated entry on www.RedBookLive.com

Certificate No: 1139m to EN 54-5:2017 + A1:2018, EN 54-7:2018 & CEA 4021: 2003, EN 54-17:2005

Multi-Sensor/Multi-Criteria Detectors

Certificated Products		LPCB Ref. No.
SensoIRIS M140 IS	Intelligent Analogue Addressable A1R Combined Heat and Optical Smoke Detector with Built-In Isolator Module (B124 Base)	1139m/01

Base:
B124 Standard analogue addressable detector base
A copy of the certificate, confirming the full scope of approval including notes relating to the superscript references in the above table, may be viewed online by clicking on the product name in the associated entry on www.RedBookLive.com

---

Tianjin VSAIL Intelligent Fire Technology Co Ltd

No 401, Building 6, No 1 Xinxing Road, Wuqing Development Zone, Tianjin, PRC 301700, China
Tel: +8613911191759
E-mail: ERICHENX@VSAIL.COM.CN

Certificate No: 1174a to EN 54:7:2018

Certificated Products		**LPCB Ref. No.**
VC-6623	Conventional Optical Smoke Detector (VB-6611 base) Note: 1. Meets the requirements of EN 54-7 at default sensitivity setting only	1174a/01
VI-6627	Digital Optical Smoke Detector (VB-6617 base) Note: 1. Meets the requirements of EN 54-7 at the following sensitivities: - Mode 0 (High) - Mode 1 (Factory Setting) - Mode 2 - Mode 3 (Low)	1174a/02

Base
VB-6611 Base
VB-6617 Addressable Mounting Base
A copy of the certificate, confirming the full scope of approval including notes relating to the superscript references in the above table, may be viewed online by clicking on the product name in the associated entry on www.RedBookLive.com

Certificate No: 1174b to EN 54-5:2017 + A1:2018

Certificated Products		**LPCB Ref. No.**
VC-6633	Conventional Heat Detector (VB-6611 base) Note: 1. Meets the requirements of EN 54-5 at Category A2R	1174b/01
VI-6637	Digital Heat Detector (VB-6617 base) Note: 1. Meets the requirements of EN 54-5 at Category A1R and A2	1174b/02

Bases
VB-6611 Base
VB-6617 Addressable Mounting Base

A copy of the certificate, confirming the full scope of approval including notes relating to the superscript references in the above table, may be viewed online by clicking on the product name in the associated entry on www.RedBookLive.com

Certificate No: 1174f to EN 54-5:2017 + A1:2018, EN 54-7:2018, CEA 4021:2003

Certificated Products		**LPCB Ref. No.**
VI-6647	Digital Smoke and Heat Detector (VB-6617 base) Notes: 1) Meets the requirements of EN 54-5 at Category A1R and A2 2) Meets the requirements of EN 54-7 at the following sensitivity settings - Smoke Mode 2 and A1R - Smoke Mode 2 and A2 - Smoke Mode 2 (Smoke only), heat disabled	1174f/01

Base
VB-6617 Addressable Mounting Base

A copy of the certificate, confirming the full scope of approval including notes relating to the superscript references in the above table, may be viewed online by clicking on the product name in the associated entry on www.RedBookLive.com

Tyco Fire & Security GmbH

Victor Von Bruns-Strasse 21, Neuhausen am Rheinfall 8212, Switzerland
Tel: +44 (0)1462 667700 • Fax: +44 (0)1462 667777
E-mail: deepika.sahni@jci.com • Website: www.tycosafetyproducts-europe.com

Certificate No: 681b-(cl-1) to EN 54-5:2017 + A1:2018, EN 54-7:2018, CEA 4021:2003

Certificated Products		LPCB Ref. No.
830PC (516.830.054)	MX Digital Addressable Photoelectric Smoke, Class P Heat and Carbon Monoxide Detector (4B, 4B-C, 4B-I, and 5B bases) *Notes:* *1) Approved with the following mode configurations:-* *- UNIV Universal optical smoke, A2S heat, and CO multi-criteria detector* *- RESIL Resilient optical smoke, A2S heat and CO multi-criteria detector* *- Heat detector at Class A1R* *- HPO Heat enhanced optical smoke detector at Normal sensitivity* *2) The Carbon Monoxide toxic gas/CCO/CCO+A1R modes and the CO sensor are not approved independently.* *3) Also available in the following coloured housings:* *- Orange semi-gloss (517.050.502)* *- Yellow gloss (517.050.503)* *- Green matt (517.050.504)* *- Red matt (517.050.505)* *- Brown matt (517.050.506)* *- Blue gloss (517.050.507)* *- Pink gloss (517.050.508)* *- Silver metallic (517.050.509)* *- Gold metallic (517.050.510)* *- Black matt (517.050.511)*	681b/03
840PH	MX Digital Addressable Photoelectric Smoke and Class P Heat Detector (4B, 4B-C, 4B-I, and 5B bases) *Note:* *Approved with the following mode configurations:-* *- Heat detector at Class A1R* *- Heat detector at Class A2S* *- OPT Optical smoke detector at High, Normal and Low sensitivity* *- FL OPT Optical smoke detector at High, Normal and Low sensitivity using FastLogic* *- HPO Heat enhanced optical smoke at High, Normal and Low sensitivity* *- FL HPO Heat enhanced optical smoke at High, Normal and Low sensitivity using FastLogic.*	681b/04
4098-6257	Simplex Digital Addressable Photo / Heat 830 Series Sensor (4098-5272 base) Notes: 1) Approved with the following mode configurations:- - Heat detector at Class A1R - Heat detector at Class A2S - OPT Optical smoke detector at High, Normal and Low sensitivity - FL OPT Optical smoke detector at High, Normal and Low sensitivity using FastLogic - HPO Heat enhanced optical smoke at High, Normal and Low sensitivity - FL HPO Heat enhanced optical smoke at High, Normal and Low sensitivity using FastLogic.	681b/05
830PH (516.830.051)	MX Digital Addressable Photoelectric Smoke and Class P Heat Detector (4B, 4B-C, 4B-I, and 5B bases) *Notes:* *1) Approved with the following mode configurations:-* *- Heat detector at Class A1R* *- Heat detector at Class A2S* *- OPT Optical smoke detector at High, Normal and Low sensitivity* *- FL OPT Optical smoke detector at High, Normal and Low sensitivity using FastLogic* *- HPO Heat enhanced optical smoke at High, Normal and Low sensitivity* *- FL HPO Heat enhanced optical smoke at High, Normal and Low sensitivity using FastLogic.* *2) Also available in the following coloured housings:* *- Orange semi-gloss (517.050.502)*	681b/05

Certificated Products		LPCB Ref. No.
	- Yellow gloss (517.050.503) *- Green matt (517.050.504)* *- Red matt (517.050.505)* *- Brown matt (517.050.506)* *- Blue gloss (517.050.507)* *- Pink gloss (517.050.508)* *- Silver metallic (517.050.509)* *- Gold metallic (517.050.510)* *- Black matt (517.050.511)*	
FC460PH	FireClass Digital Addressable Photoelectric Smoke and Class P Heat Detector (4B, 4B-C, 4B-I, and 5B bases) Notes: 1) Approved with the following mode configurations: - - Heat detector at Class A1R - Heat detector at Class A2S - OPT Optical smoke detector at High, Normal and Low sensitivity - FL OPT Optical smoke detector at High, Normal and Low sensitivity using FastLogic - HPO Heat enhanced optical smoke at High, Normal and Low sensitivity - FL HPO Heat enhanced optical smoke at High, Normal and Low sensitivity using FastLogic.	681b/06
FC460PC	FireClass Digital Addressable Photoelectric Smoke, Class P Heat and Carbon Monoxide Detector (4B, 4B-C, 4B-I, and 5B bases) Notes: 1) Approved with the following mode configurations: - - UNIV Universal optical smoke, A2S heat, and CO multi-criteria detector - RESIL Resilient optical smoke, A2S heat and CO multi-criteria detector - Heat detector at Class A1R - HPO Heat enhanced optical smoke detector at Normal sensitivity 2) The Carbon Monoxide toxic gas/CCO/CCO+A1R modes and the CO sensor are not approved independently.	681b/07
835PH (516.835.051)	Photo Heat Detector (4B, 5B, 4B-I, 4B-C bases) Notes: 1) Approved with the following mode configurations: - - Heat detector at Class A1R - Heat detector at Class A2S - OPT Optical smoke detector at High, Normal and Low sensitivity - FL OPT Optical smoke detector at High, Normal and Low sensitivity using FastLogic - HPO Heat enhanced optical smoke at High, Normal and Low sensitivity - FL HPO Heat enhanced optical smoke at High, Normal and Low sensitivity using FastLogic	681b/08
835PC (516.835.054)	3oTec Triple Sensor Detector (Smoke, Heat and CO) (4B, 5B, 4B-I, 4B-C bases) Notes: 1) Approved with the following mode configurations: - - UNIV Universal optical smoke, A2S heat, and CO multi-criteria detector - RESIL Resilient optical smoke, A2S heat and CO multi-criteria detector - Heat detector at Class A1R - HPO Heat enhanced optical smoke detector at Normal sensitivity 2) The Carbon Monoxide toxic gas/CCO/CCO+A1R modes and the CO sensor are not approved independently.	681b/09

Bases:
4B 4” Universal Mounting Base
4B-D 4” Diode Mounting Base
4B-C 4" Continuity Base
4B-EN 4" Ex(N) Mounting Base
5B 5” Universal Mounting Base
5BD Conventional Diode Base
MUBEx Intrinsically Safe Detector Base
5BEx Intrinsically Safe Detector Base
A copy of the certificate, confirming the full scope of approval including notes relating to the superscript references in the above table, may be viewed online by clicking on the product name in the associated entry on www.RedBookLive.com

Certificate No: 681ba-(cl-1) to EN 54-5:2017 + A1:2018, EN 54-17:2005

Certificated Products		LPCB Ref. No.
701H	Conventional Category A1R Rate of Rise Heat Detector (516.900.003) (4B, 4BD, 5B and 5BD Bases)	681ba/01
702H	Conventional Category A1S Fixed (60C) Heat Detector (516.900.004) (4B, 4BD, 5B and 5BD Bases)	681ba/02

Certificated Products		LPCB Ref. No.
703H	Conventional Category CS Fixed (90C) Heat Detector (516.900.005) (4B, 4BD, 5B and 5BD Bases)	681ba/03
711H	Conventional Rate of Rise A1R Heat Detector (516.900.103) (4B, 4BD, 5B and 5BD Bases)	681ba/04
712H	Conventional Fixed (60C) A1S Heat Detector (516.900.104) (4B, 4BD, 5B and 5BD Bases)	681ba/05
713H	Conventional Fixed (90C) CS Heat Detector (516.900.105) (4B, 4BD, 5B and 5BD Bases)	681ba/06
FC460H	FIRECLASS Digital Addressable Category P Heat Detector (4B, 4B-I and 5B bases) Note: Approved with the following mode configurations: - - Heat Detector at Category A1R - Heat Detector at Category A2S - Heat Detector at Category CR	681ba/07
840H	MX Digital Addressable Class P Heat Detector (4B, 4B-I, and 5B bases) Note: Approved with the following mode configurations: - - Heat detector at Category A1R - Heat detector at Category A2S - Heat detector at Category CR	681ba/08
4098-6255	Simplex Digital Addressable Category P Heat Detector (4098-5272 base) Notes: 1. Approved with the following mode configurations: - - Heat detector at Category A1R - Heat detector at Category A2S - Heat detector at Category CR 2. Also available in the following coloured housings: - Orange semi-gloss (517.050.502) - Yellow gloss (517.050.503) - Green matt (517.050.504) - Red matt (517.050.505) - Brown matt (517.050.506) - Blue gloss (517.050.507) - Pink gloss (517.050.508) - Silver metallic (517.050.509) - Gold metallic (517.050.510) - Black matt (517.050.511)	681ba/09
830H	MX Digital Addressable Category P Heat Detector (4B, 4B-I, and 5B bases) Notes: 1. Approved with the following mode configurations: - - Heat detector at Category A1R - Heat detector at Category A2S - Heat detector at Category CR 2. Also available in the following coloured housings: - Orange semi-gloss (517.050.502) - Yellow gloss (517.050.503) - Green matt (517.050.504) - Red matt (517.050.505) - Brown matt (517.050.506) - Blue gloss (517.050.507) - Pink gloss (517.050.508) - Silver metallic (517.050.509) - Gold metallic (517.050.510) - Black matt (517.050.511)	681ba/09
835H (516.835.053)	Heat Detector (4B, 5B, 4B-I, 4B-C bases) Notes: 1. Approved with the following mode configurations: - - Heat detector at Category A1R - Heat detector at Category A2S - Heat detector at Category CR	681ba/10
601H-R	Conventional Category A1R Heat Detector (4B, 4B-D & 5B bases)	681ba/11
MD601Ex	Conventional Intrinsically Safe Category A1R Rate of Rise Heat Detector (MUBEx and 5BEx bases)	681ba/12
MD611Ex	Conventional Intrinsically Safe Category A1S Fixed Temperature Heat Detector (MUBEx and 5BEx bases)	681ba/13
611H-F	Conventional Category A1S Fixed Temperature Heat Detector	681ba/14

Certificated Products		LPCB Ref. No.
	(4B, 4B-D and 5B bases)	
631H-F	Conventional Category CS Fixed Temperature Heat Detector (4B, 4B-D and 5B bases)	681ba/15

Bases:
4B 4” Universal Mounting Base
4B-D 4” Diode Mounting Base
4B-C 4" Continuity Base
4B-I 4” Isolator Base
5B 5” Universal Mounting Base
5BD Conventional Diode Base
MUBEx Intrinsically Safe Detector Base
5BEx Intrinsically Safe Detector Base
4098-5272 Standard 4IN Detector Base
A copy of the certificate, confirming the full scope of approval including notes relating to the superscript references in the above table, may be viewed online by clicking on the product name in the associated entry on www.RedBookLive.com

Certificate No: 681az-(cl-1) to EN 54-7:2018

Certificated Products		LPCB Ref. No.
701P	Conventional Optical Detector (516.900.001) (4B, 4BD, 5B and 5BD bases)	681az/01
711P	Conventional Optical Detector (516.900.101) (4B, 4BD, 5B and 5BD bases)	681az/02
FC460P	FireClass Digital Addressable Photoelectric Smoke Detector (4B, 4B-I, and 5B bases) Note: Approved with the following mode configurations: - - OPT Optical smoke detector at High, Normal and Low sensitivity - FL OPT Optical smoke detector at High, Normal and Low sensitivity using FastLogic	681az/03
840P	MX Digital Addressable Photoelectric Smoke Detector (4B, 4B-I, and 5B bases) Note: Approved with the following mode configurations: - - OPT Optical smoke detector at High, Normal and Low sensitivity - FL OPT Optical smoke detector at High, Normal and Low sensitivity using FastLogic	681az/04
4098-6256	Simplex Digital Addressable Photoelectric Smoke Detector (4B, 4B-I, and 5B bases) Notes: 1. Approved with the following mode configurations: - - OPT Optical smoke detector at High, Normal and Low sensitivity - FL OPT Optical smoke detector at High, Normal and Low sensitivity using FastLogic 2. Also available in the following coloured housings: - Orange semi-gloss (517.050.502) - Yellow gloss (517.050.503) - Green matt (517.050.504) - Red matt (517.050.505) - Brown matt (517.050.506) - Blue gloss (517.050.507) - Pink gloss (517.050.508) - Silver metallic (517.050.509) - Gold metallic (517.050.510) - Black matt (517.050.511)	681az/05
830P (516.830.052)	MX Digital Addressable Photoelectric Smoke Detector (4B, 4B-I, and 5B bases) Notes: 1. Approved with the following mode configurations: - - OPT Optical smoke detector at High, Normal and Low sensitivity - FL OPT Optical smoke detector at High, Normal and Low sensitivity using FastLogic 2. Also available in the following coloured housings: - Orange semi-gloss (517.050.502) - Yellow gloss (517.050.503) - Green matt (517.050.504) - Red matt (517.050.505) - Brown matt (517.050.506) - Blue gloss (517.050.507) - Pink gloss (517.050.508) - Silver metallic (517.050.509) - Gold metallic (517.050.510) - Black matt (517.050.511)	681az/05

Certificated Products		LPCB Ref. No.
835P (516.835.052)	Photo Detector (4B, 5B, 4B-I, 4B-C bases) Notes: 1. Approved with the following mode configurations: - - OPT Optical smoke detector at High, Normal and Low sensitivity - FL OPT Optical smoke detector at High, Normal and Low sensitivity using FastLogic	681az/06
601P	Conventional Optical Smoke Detector (4B, 4B-D and 5B bases)	681az/07

Bases:

4B	4” Universal Mounting Base
4B-C	4" Continuity Base
4B-D	Diode Mounting Base
4B-I	4” Isolator Base
5B	5” Universal Mounting Base
5BD	Conventional Diode Base
4098-5272	Standard 4IN Detector Base

A copy of the certificate, confirming the full scope of approval including notes relating to the superscript references in the above table, may be viewed online by clicking on the product name in the associated entry on www.RedBookLive.com

Certificate No: 681e-(cl-1) to EN 54-5:2017 + A1:2018, LPS 1265 Issue 1.0

Certificated Products		LPCB Ref. No.
601CH	Conventional Thermally Enhanced Carbon Monoxide and Category A1R Heat Detector (4B, 4B-D and 5B Bases)	681e/01

Bases:

4B	4” Universal Mounting Base
4B-D	Diode Mounting Base
5B	5” Universal Mounting Base

A copy of the certificate, confirming the full scope of approval including notes relating to the superscript references in the above table, may be viewed online by clicking on the product name in the associated entry on www.RedBookLive.com

Certificate No: 681r-(cl-1) to EN 54-10:2002 + A1:2005

Certificated Products		LPCB Ref. No.
601F	Conventional Class 2 Flame Detector (4B, 4B-D and 5B bases)	681r/01
601FEx	Conventional Class 2 Intrinsically Safe Flame Detector (MUBEx and 5BEx bases)	681r/02
801F	MX Addressable Class 2 Flame Detector (4B and 5B bases)	681r/03
801FEx	MX Addressable Class 2 Intrinsically Safe Flame Detector (MUBEx and 5BEx bases)	681r/04

Bases:

4B	4” Standard mounting base
4B-D	4” Diode mounting base
5B	Standard mounting base
MUBEx	Intrinsically safe mounting base
5BEx	Intrinsically safe mounting base

A copy of the certificate, confirming the full scope of approval including notes relating to the superscript references in the above table, may be viewed online by clicking on the product name in the associated entry on www.RedBookLive.com

Certificate No: 681ay-(cl-1) to EN 54-7:2018, EN 54-29:2015

Certificated Products		LPCB Ref. No.
711PH	Conventional Optical Smoke Detector with Heat Enhancement (516.900.102) (4B, 4B-D, 5B and 5B-D bases)	681ay/01
701PH	Conventional Optical Smoke Detector with Heat Enhancement (516.900.002) (4B, 4B-D, 5B and 5B-D bases)	681ay/02

Bases

4B	Universal Mounting Base

4BD Diode Mounting Base
5B Universal Mounting Base
5BD Conventional Diode Base

A copy of the certificate, confirming the full scope of approval including notes relating to the superscript references in the above table, may be viewed online by clicking on the product name in the associated entry on www.RedBookLive.com

Certificate No: 681w-(cl-1) to EN 54-5:2017 + A1:2018, EN 54-7:2018, EN 54-17:2005, CEA 4021:2003

Certificated Products		**LPCB Ref. No.**
4098-6254	Simplex Digital Addressable Photoelectric Smoke, Class P Heat and Carbon Monoxide Detector with Short Circuit Isolator (4098-5272 base) Notes: 1. Approved with the following mode configurations: - - UNIV Universal optical smoke, A2S heat, and CO multi-criteria detector - RESIL Resilient optical smoke, A2S heat and CO multi-criteria detector - Heat detector at Class A1R - HPO Heat enhanced optical smoke detector at normal sensitivity 2. The Carbon Monoxide toxic gas/CCO/CCO+A1R modes and the CO sensor are not approved independently. 3. Also available in the following coloured housings: - Orange semi-gloss (517.050.502) - Yellow gloss (517.050.503) - Green matt (517.050.504) - Red matt (517.050.505) - Brown matt (517.050.506) - Blue gloss (517.050.507) - Pink gloss (517.050.508) - Silver metallic (517.050.509) - Gold metallic (517.050.510) - Black matt (517.050.511)	681w/01
850PC (516.850.054)	MX Digital Addressable Photoelectric Smoke, Class P Heat and Carbon Monoxide Detector with Short Circuit Isolator (4B, 4B-C and 5B bases) Notes: 1. Approved with the following mode configurations: - - UNIV Universal optical smoke, A2S heat, and CO multi-criteria detector - RESIL Resilient optical smoke, A2S heat and CO multi-criteria detector - Heat detector at Class A1R - HPO Heat enhanced optical smoke detector at normal sensitivity 2. The Carbon Monoxide toxic gas/CCO/CCO+A1R modes and the CO sensor are not approved independently. 3. Also available in the following coloured housings: - Orange semi-gloss (517.050.502) - Yellow gloss (517.050.503) - Green matt (517.050.504) - Red matt (517.050.505) - Brown matt (517.050.506) - Blue gloss (517.050.507) - Pink gloss (517.050.508) - Silver metallic (517.050.509) - Gold metallic (517.050.510) - Black matt (517.050.511)	681w/01
850PC (516.850.054.E)	MX Digital Addressable Photoelectric Smoke, Class P Heat and Carbon Monoxide Detector with Short Circuit Isolator (4B, 4B-C and 5B bases) Notes: 1. Approved with the following mode configurations: - - UNIV Universal optical smoke, A2S heat, and CO multi-criteria detector - RESIL Resilient optical smoke, A2S heat and CO multi-criteria detector - Heat detector at Class A1R - HPO Heat enhanced optical smoke detector at normal sensitivity 2. The Carbon Monoxide toxic gas/CCO/CCO+A1R modes and the CO sensor are not approved independently. 3. Also available in the following coloured housings: - Orange semi-gloss (517.050.502) - Yellow gloss (517.050.503) - Green matt (517.050.504) - Red matt (517.050.505) - Brown matt (517.050.506) - Blue gloss (517.050.507) - Pink gloss (517.050.508) - Silver metallic (517.050.509) - Gold metallic (517.050.510)	681w/01

Certificated Products		LPCB Ref. No.
	- Black matt (517.050.511)	
4098-6251	Simplex Digital Addressable Photoelectric Smoke and Class P Heat Detector with Short Circuit Isolator (4098-5272 base) Note: 1. Approved with the following mode configurations: - - Heat detector at Class A1R - Heat detector at Class A2S - OPT Optical smoke detector at High, Normal and Low sensitivity - FL OPT Optical smoke detector at High, Normal and Low sensitivity using FastLogic - HPO Heat enhanced optical smoke at High, Normal and Low sensitivity - FL HPO Heat enhanced optical smoke at High, Normal and Low sensitivity using FastLogic. 2. Also available in the following coloured housings: - Orange semi-gloss (517.050.502) - Yellow gloss (517.050.503) - Green matt (517.050.504) - Red matt (517.050.505) - Brown matt (517.050.506) - Blue gloss (517.050.507) - Pink gloss (517.050.508) - Silver metallic (517.050.509) - Gold metallic (517.050.510) - Black matt (517.050.511)	681w/03
850PH (516.850.051)	MX Digital Addressable Photoelectric Smoke and Class P Heat Detector with Short Circuit Isolator (4B, 4B-C, and 5B bases) Note: 1. Approved with the following mode configurations: - - Heat detector at Class A1R - Heat detector at Class A2S - OPT Optical smoke detector at High, Normal and Low sensitivity - FL OPT Optical smoke detector at High, Normal and Low sensitivity using FastLogic - HPO Heat enhanced optical smoke at High, Normal and Low sensitivity - FL HPO Heat enhanced optical smoke at High, Normal and Low sensitivity using FastLogic. 2. Also available in the following coloured housings: - Orange semi-gloss (517.050.502) - Yellow gloss (517.050.503) - Green matt (517.050.504) - Red matt (517.050.505) - Brown matt (517.050.506) - Blue gloss (517.050.507) - Pink gloss (517.050.508) - Silver metallic (517.050.509) - Gold metallic (517.050.510) - Black matt (517.050.511)	681w/03
850PH (516.850.051.E)	MX Digital Addressable Photoelectric Smoke and Class P Heat Detector with Short Circuit Isolator (4B, 4B-C, and 5B bases) Note: 1. Approved with the following mode configurations: - - Heat detector at Class A1R - Heat detector at Class A2S - OPT Optical smoke detector at High, Normal and Low sensitivity - FL OPT Optical smoke detector at High, Normal and Low sensitivity using FastLogic - HPO Heat enhanced optical smoke at High, Normal and Low sensitivity - FL HPO Heat enhanced optical smoke at High, Normal and Low sensitivity using FastLogic. 2. Also available in the following coloured housings: - Orange semi-gloss (517.050.502) - Yellow gloss (517.050.503) - Green matt (517.050.504) - Red matt (517.050.505) - Brown matt (517.050.506) - Blue gloss (517.050.507) - Pink gloss (517.050.508) - Silver metallic (517.050.509) - Gold metallic (517.050.510) - Black matt (517.050.511)	681w/03
851PH	MX Digital Addressable Photoelectric Smoke and Class P Heat Detector with Short Circuit Isolator [Marine version] (4B, 4B-C, and 5B bases) Note: 1. Approved with the following mode configurations: - - Heat detector at Class A1R	681w/04

Certificated Products		LPCB Ref. No.
	- Heat detector at Class A2S - OPT Optical smoke detector at High, Normal and Low sensitivity - FL OPT Optical smoke detector at High, Normal and Low sensitivity using FastLogic - HPO Heat enhanced optical smoke at High, Normal and Low sensitivity - FL HPO Heat enhanced optical smoke at High, Normal and Low sensitivity using FastLogic.	
855PH (516.855.051)	Photo Heat Detector with SCI (4B, 5B, 4B-C bases) Note: 1. Approved with the following mode configurations: - - Heat detector at Class A1R - Heat detector at Class A2S - OPT Optical smoke detector at High, Normal and Low sensitivity - FL OPT Optical smoke detector at High, Normal and Low sensitivity using FastLogic - HPO Heat enhanced optical smoke at High, Normal and Low sensitivity - FL HPO Heat enhanced optical smoke at High, Normal and Low sensitivity using FastLogic.	681w/06
855PC (516.855.054)	3oTec Triple Sensor Detector with SCI (Smoke, Heat & CO) (4B, 5B, 4B-C bases) Notes: 1. Approved with the following mode configurations: - - UNIV Universal optical smoke, A2S heat, and CO multi-criteria detector - RESIL Resilient optical smoke, A2S heat and CO multi-criteria detector - Heat detector at Class A1R - HPO Heat enhanced optical smoke detector at normal sensitivity 2) The Carbon Monoxide toxic gas/CCO/CCO+A1R modes and the CO sensor are not approved independently.	681w/07

Bases

4B	4” Universal mounting base
4B-C	4” Continuity base
4B-EN	4” Ex{N} mounting base
5B	5” Universal mounting base
4098-5272	Standard 4” Detector Base

A copy of the certificate, confirming the full scope of approval including notes relating to the superscript references in the above table, may be viewed online by clicking on the product name in the associated entry on www.RedBookLive.com

Certificate No: 681j-(cl-1) to EN 54-7:2018, CEA 4021:2003

Certificated Products		LPCB Ref. No.
601PH	Conventional High Performance Photoelectric Smoke Detector (4B, 4B-D and 5B Bases)	681j/01
MR601TEx	Conventional Intrinsically Safe High Performance Photoelectric Smoke Detector with Heat Enhancement (MUBEx base, 5BEx Bases)	681j/02

Bases

4B	4” Universal mounting base
4B-D	4” Diode mounting base
5B	5” Universal mounting base
MUBEx	Intrinsically safe detector base
5BEx	Intrinsically safe detector base

A copy of the certificate, confirming the full scope of approval including notes relating to the superscript references in the above table, may be viewed online by clicking on the product name in the associated entry on www.RedBookLive.com

Certificate No: 681p-(cl-1) to EN 54-5:2017 + A1:2018, EN 54-17:2005

Certificated Products		LPCB Ref. No.
850H (516.850.053)	MX Digital Addressable Class P Heat Detector with Short Circuit Isolator (4B, 4B-C and 5B bases) Notes: 1. Approved with the following mode configurations: - - Heat detector at Class A1R - Heat detector at Class A2S - Heat detector at Class CR 2. Also available in the following coloured housings:	681p/01

Certificated Products		LPCB Ref. No.
	- Orange semi-gloss (517.050.502) - Yellow gloss (517.050.503) - Green matt (517.050.504) - Red matt (517.050.505) - Brown matt (517.050.506) - Blue gloss (517.050.507) - Pink gloss (517.050.508) - Silver metallic (517.050.509) - Gold metallic (517.050.510) - Black matt (517.050.511)	
850H (516.850.053.E)	MX Digital Addressable Class P Heat Detector with Short Circuit Isolator (4B, 4B-C and 5B bases) Notes: 1. Approved with the following mode configurations: - - Heat detector at Class A1R - Heat detector at Class A2S - Heat detector at Class CR 2. Also available in the following coloured housings: - Orange semi-gloss (517.050.502) - Yellow gloss (517.050.503) - Green matt (517.050.504) - Red matt (517.050.505) - Brown matt (517.050.506) - Blue gloss (517.050.507) - Pink gloss (517.050.508) - Silver metallic (517.050.509) - Gold metallic (517.050.510) - Black matt (517.050.511)	681p/01
855H (516.855.053)	Heat Detector with SCI (4B, 5B, 4B-C bases) Notes: 1. Approved with the following mode configurations: - - Heat detector at Class A1R - Heat detector at Class A2S - Heat detector at Class CR	681p/02
4098-6253	Simplex Digital Addressable Class P Heat Detector with Short Circuit Isolator (4098-5272 base) Notes: 1. Approved with the following mode configurations: - - Heat detector at Class A1R - Heat detector at Class A2S - Heat detector at Class CR 2. Also available in the following coloured housings: - Orange semi-gloss (517.050.502) - Yellow gloss (517.050.503) - Green matt (517.050.504) - Red matt (517.050.505) - Brown matt (517.050.506) - Blue gloss (517.050.507) - Pink gloss (517.050.508) - Silver metallic (517.050.509) - Gold metallic (517.050.510) - Black matt (517.050.511)	691p/01

Bases

4B	4” Universal Mounting Base
4B-C	4” Continuity Base
5B	5” Universal Mounting Base
4098-5272	Standard 4IN Detector Base

A copy of the certificate, confirming the full scope of approval including notes relating to the superscript references in the above table, may be viewed online by clicking on the product name in the associated entry on www.RedBookLive.com

Certificate No: 681z-(cl-1) to EN 54-7:2018

Certificated Products		LPCB Ref. No.
4098-6252	Simplex Digital Addressable Photoelectric Smoke Detector with Short Circuit Isolator (4098-5272 base) Notes: 1. Approved with the following mode configurations:- - OPT Optical smoke detector at High, Normal and Low sensitivity - FL OPT Optical smoke detector at High, Normal and Low sensitivity using FastLogic	681z/01

Certificated Products		LPCB Ref. No.
	2. Also available in the following coloured housings: - Orange semi-gloss (517.050.502) - Yellow gloss (517.050.503) - Green matt (517.050.504) - Red matt (517.050.505) - Brown matt (517.050.506) - Blue gloss (517.050.507) - Pink gloss (517.050.508) - Silver metallic (517.050.509) - Gold metallic (517.050.510) - Black matt (517.050.511)	
850P (516.850.052)	MX Digital Addressable Photoelectric Smoke Detector with Short Circuit Isolator (4B, 4B-C and 5B bases) Notes: 1. Approved with the following mode configurations:- - OPT Optical smoke detector at High, Normal and Low sensitivity - FL OPT Optical smoke detector at High, Normal and Low sensitivity using FastLogic 2. Also available in the following coloured housings: - Orange semi-gloss (517.050.502) - Yellow gloss (517.050.503) - Green matt (517.050.504) - Red matt (517.050.505) - Brown matt (517.050.506) - Blue gloss (517.050.507) - Pink gloss (517.050.508) - Silver metallic (517.050.509) - Gold metallic (517.050.510) - Black matt (517.050.511)	681z/01
850P (516.850.052.E)	MX Digital Addressable Photoelectric Smoke Detector with Short Circuit Isolator (4B, 4B-C and 5B bases) Notes: 1. Approved with the following mode configurations:- - OPT Optical smoke detector at High, Normal and Low sensitivity - FL OPT Optical smoke detector at High, Normal and Low sensitivity using FastLogic 2. Also available in the following coloured housings: - Orange semi-gloss (517.050.502) - Yellow gloss (517.050.503) - Green matt (517.050.504) - Red matt (517.050.505) - Brown matt (517.050.506) - Blue gloss (517.050.507) - Pink gloss (517.050.508) - Silver metallic (517.050.509) - Gold metallic (517.050.510) - Black matt (517.050.511)	681z/01
855P (516.855.052)	Photo Detector with SCI (4B, 5B, 4B-C bases) Notes: 1. Approved with the following mode configurations: - - OPT Optical smoke detector at High, Normal and Low sensitivity - FL OPT Optical smoke detector at High, Normal and Low sensitivity using FastLogic	681z/02

Bases

4B	4” Universal Mounting Base
4B-C	4” Continuity Base
5B	5” Universal Mounting Base
4098-5272	Standard 4IN Detector Base

A copy of the certificate, confirming the full scope of approval including notes relating to the superscript references in the above table, may be viewed online by clicking on the product name in the associated entry on www.RedBookLive.com

V-GREAT GLOBAL CORPORATION

Second Floor, Capital City, Independence Avenue, P O Box 1008, Victoria, Mahe, Seychelles
Tel: 008613581542023
E-mail: vgreatech@hotmail.com

Certificate No: 1174a-(cl-1) to EN 54-7:2018

Smoke Detector

Certificated Products		LPCB Ref. No.
VG-6623	Conventional Optical Smoke Detector (VG-6611 base) *Note:* *1. Meets the requirements of EN 54-7 at default sensitivity setting only*	1174a/01
VG-6627	Addressable Optical Smoke Detector (VG-6617 base) *Note:* *1. Meets the requirements of EN 54-7 at the following sensitivities:* *- Mode 0 (High)* *- Mode 1 (Factory Setting)* *- Mode 2* *- Mode 3 (Low)*	1174a/02

Bases
VG-6611 Base
VG-6617 Addressable mounting base

A copy of the certificate, confirming the full scope of approval including notes relating to the superscript references in the above table, may be viewed online by clicking on the product name in the associated entry on www.RedBookLive.com

Certificate No: 1174b-(cl-1) to EN 54-5:2017 + A1:2018

Heat Detectors

Certificated Products		LPCB Ref. No.
VG-6633	Conventional Heat Detector (VG-6611 base) *Note:* *1. Meets the requirements of EN 54-5 at Category A2R*	1174b/01
VG-6637	Addressable Heat Detector (VG-6617 base) *Note:* *1. Meets the requirements of EN 54-5 at Category A1R and A2*	1174b/02

Bases
VG-6611 Base
VG-6617 Addressable mounting base

A copy of the certificate, confirming the full scope of approval including notes relating to the superscript references in the above table, may be viewed online by clicking on the product name in the associated entry on www.RedBookLive.com

Certificate No: 1174f-(cl-2) to EN 54-5:2017 + A1:2018; EN 54-7:2018, CEA 4021:2003

Multi-Sensor/Multi-Criteria Detectors

Certificated Products		LPCB Ref. No.
VG-6647	Addressable Smoke and Heat Detector (VG-6617 base) *Notes:* *1) Meets the requirements of EN 54-5 at Category A1R and A2* *2) Meets the requirements of EN 54-7 at the following sensitivity settings* *- Smoke Mode 2 and A1R* *- Smoke Mode 2 and A2* *- Smoke Mode 2 (Smoke only), heat disabled*	1174f/01

Bases
VG-6617 Addressable mounting base

A copy of the certificate, confirming the full scope of approval including notes relating to the superscript references in the above table, may be viewed online by clicking on the product name in the associated entry on www.RedBookLive.com

---

Vighnaharta Technologies Pvt Ltd.

Survey No. 11/11, Karanjakar Estate, Nanded Gaon, Pune MH- 411041, India
Tel: +91-9011033259
E-mail: sales@vighnaharta.in • Website: www.vighnaharta.in

Certificate No: 010h-(cl-4) to EN 54-5:2017 + A1:2018, EN 54-7:2018 & CEA 4021:2003

Multi-Sensor/Multi-Criteria Detectors

Certificated Products		LPCB Ref. No.
MSD-700TSF	TrueSafe Multisensor Detector Addressable (BASE-210TSF) Notes: 1. Certified at the following settings: Mode 1 High sensitivity smoke detector with standard heat enhancement Mode 2 Smoke detection only Mode 3 Medium sensitivity smoke detector with standard heat enhancement Mode 4 Low sensitivity smoke detector with high heat enhancement Mode 5 Class A1 heat detector Also approved in conventional alarm modes 1, 2, 3, 4 and 5	010h/01

Base
BASE-210TSF TrueSafe Detector Base
A copy of the certificate, confirming the full scope of approval including notes relating to the superscript references in the above table, may be viewed online by clicking on the product name in the associated entry on www.RedBookLive.com

---

VIVA ELEKTRONIK SISTEMLER

Rasimpasa Mah. Muhendis Sari Ali, Sok. Birlik Han No:3/1, Kadikoy, ISTANBUL 34716, Turkey
Tel: 0090 549 797 70 80
E-mail: info@vivafire.com • Website: www.vivafire.com

Certificate No: 1426b-(cl-1) to EN 54-5: 2017+ A1: 2018

Certificated Products		LPCB Ref. No.
VI 200-T	Intelligent Addressable Heat Detector (DZ-912 Base) *Notes:* *Meets the requirements of EN 54-5 for Category A2*	1426b/01

Base
DZ-912
A copy of the certificate, confirming the full scope of approval including notes relating to the superscript references in the above table, may be viewed online by clicking on the product name in the associated entry on www.RedBookLive.com

Certificate No: 1426c-(cl-1) to EN 54-7:2018

Certificated Products		LPCB Ref. No.
VI 200-0	Intelligent Addressable Smoke Detector (DZ-912 Base) *Notes:* *Meets the requirements of EN 54-7 for 1 sensitivity setting*	1426c/01

A copy of the certificate, confirming the full scope of approval including notes relating to the superscript references in the above table, may be viewed online by clicking on the product name in the associated entry on www.RedBookLive.com

Wagner Group GmbH

Schleswigstraße 5, D-30853 Langenhagen, Germany
Tel: +49 511 97383 0 • Fax: +49 511 73338 6
E-mail: info@wagner.de • Website: www.wagner.de

Certificate No: 524c to EN 54-20: 2006

Aspirating Smoke Detectors

Certificated Products	**LPCB Ref. No.**
TITANUS PRO-SENS	524c/01

Notes:

1. *Approval of the detector is conditional upon the following requirements:*
   - *For compliance with Clause 5.10 of EN 54-20: 2006, the detector shall be supplied with power from a power supply conforming to the requirements of EN 54-4.*
   - *System design, installation and commissioning shall be performed in accordance with the manufacturer's installation guide, associated manuals and design software TF-SC-1.*
   - *The detector shall be installed with sampling pipe conforming to EN 61386-1, to at least Class 1131.*

2. *Approved detector configurations (Class A, Class B and Class C):*
   - *TP-1/a (standard version, no bargraph display, 1 alarm, not available for networking)*
   - *TP-1-F/a (deep freeze version, no bargraph display, 1 alarm, not available for networking)*
   - *TP-1-SL (silent version, no bargraph display, 1 alarm, not available for networking)*

3. *The approved detector must incorporate one or two of the following detector modules:*
   - *DM-TP-01-L (standard version, sensitivity of 0.015%/m)*
   - *DM-TP-01-L-F (deep freeze version, sensitivity of 0.015%/m)*
   - *DM-TP-10-L (standard version, sensitivity of 0.10%/m)*
   - *DM-TP-10-L-F (deep freeze version, sensitivity of 0.10%/m)*
   - *DM-TP-50-L (standard version, sensitivity of 0.50%/m)*
   - *DM-TP-50-L-F (deep freeze version, sensitivity of 0.50%/m)*

TITANUS PRO-SENS/net — 524c/02

Notes:

1. *Approval of the detector is conditional upon the following requirements:*
   - *For compliance with Clause 5.10 of EN 54-20: 2006, the detector shall be supplied with power from a power supply conforming to the requirements of EN 54-4.*
   - *System design, installation and commissioning shall be performed in accordance with the manufacturer's installation guide, associated manuals and design software TF-SC-1.*
   - *The detector shall be installed with sampling pipe conforming to EN 61386-1, to at least Class 1131.*

2. *Approved detector configurations (Class A, Class B and Class C):*
   - *TP-3 (standard version, no bargraph display, 1 alarm, prepared for networking)*
   - *TP-3-F (deep freeze version, no bargraph display, 1 alarm, prepared for networking)*
   - *TP-3-SL (silent version, no bargraph display, 1 alarm, prepared for networking)*
   - *TP-4 (standard version, no bargraph display, 2 alarms, prepared for networking)*
   - *TP-4-F (deep freeze version, no bargraph display, 2 alarms, prepared for networking)*
   - *TP-4-SL (silent version, no bargraph display, 2 alarms, prepared for networking)*
   - *TP-5 (standard version, no bargraph display, 3 alarms, prepared for networking)*
   - *TP-5-F (deep freeze version, no bargraph display, 3 alarms, prepared for networking)*
   - *TP-5-SL (silent version, no bargraph display, 3 alarms, prepared for networking)*

Certificated Products		LPCB Ref. No.
	3 The approved detector must incorporate one or two of the following detector modules: • *DM-TT-01-L (standard version, sensitivity of 0.015%/m)* • *DM-TT-01-L-F (deep freeze version, sensitivity of 0.015%/m)* • *DM-TT-10-L (standard version, sensitivity of 0.10%/m)* • *DM-TT-10-L-F (deep freeze version, sensitivity of 0.10%/m)* • *DM-TT-50-L (standard version, sensitivity of 0.50%/m)* • *DM-TT-50-L-F (deep freeze version, sensitivity of 0.50%/m)*	
TITANUS TOP-SENS	***Notes:*** *1. Approval of the detector is conditional upon the following requirements:* • *For compliance with Clause 5.10 of EN 54-20: 2006, the detector shall be supplied with power from a power supply conforming to the requirements of EN 54-4.* • *System design, installation and commissioning shall be performed in accordance with the manufacturer's installation guide, associated manuals and design software TF-SC-1.* • *The detector shall be installed with sampling pipe conforming to EN 61386-1, to at least Class 1131.* *2. Approved detector configurations (Class A, Class B and Class C):* • *TT-1/a (standard version, bargraph display, 3 alarms, prepared for networking)* • *TT-1-F/a (deep freeze version, bargraph display, 3 alarms, prepared for networking)* • *TT-1-SL (silent version, bargraph display, 3 alarms, prepared for networking)* *3. The approved detector must incorporate one or two of the following detector modules:* • *DM-TT-01-L (standard version, sensitivity of 0.015%/m)* • *DM-TT-01-L-F (deep freeze version, sensitivity of 0.015%/m)* • *DM-TT-10-L (standard version, sensitivity of 0.10%/m)* • *DM-TT-10-L-F (deep freeze version, sensitivity of 0.10%/m)* • *DM-TT-50-L (standard version, sensitivity of 0.50%/m)* • *DM-TT-50-L-F (deep freeze version, sensitivity of 0.50%/m)*	524c/03
TITANUS MICRO-SENS	***Notes:*** *1. Approval of the detector is conditional upon the following requirements:* • *For compliance with Clause 5.10 of EN 54-20: 2006, the detector shall be supplied with power from a power supply conforming to the requirements of EN 54-4.* • *System design, installation and commissioning shall be performed in accordance with the manufacturer's installation guide, associated manuals and design software TF-SC-1.* • *The detector shall be installed with sampling pipe conforming to EN 61386-1, to at least Class 1131.* *2. Approved detector configurations, sensitivity of 0.10%/m (Class A, Class B and Class C):* • *DM-TM-10 (standard version)* • *DM-TM-R-10 (version with ROOM IDENT)* • *DM-TM-B-10 (version with bargraph display)* • *DM-TM-RB-10 (version with ROOM IDENT, bargraph display)* • *DM-TM-Z-10 (version with redundancy fan)* • *DM-TM-ZB-10 (version with redundancy fan, bargraph display)* • *DM-TM-10-F (deep freeze version)* • *DM-TM-B-10-F (version with bargraph display, deep freeze)* • *DM-TMV-10 (version with 2 stages of alarm)* • *DM-TMV-R-10 (version with 2 stages of alarm, ROOM IDENT)* • *DM-TMV-B-10 (version with 2 stages of alarm, bargraph display)* • *DM-TMV-RB-10 (version with 2 stages of alarm, ROOM IDENT, bargraph display)* • *DM-TMV-10-F (version with 2 stages of alarm, deep freeze)* • *DM-TMV-B-10-F (version with 2 stages of alarm, bargraph display, deep freeze)* • *DM-MB-TM-10 (version without fan to be used as detector box)* • *DM-MB-TM-B-10 (version without fan to be used as detector box, bargraph display)* *3. Approved detector configurations, sensitivity of 0.50%/m (Class A, Class B and*	524c/04

Certificated Products		LPCB Ref. No.
	Class C): • *DM-TM-50 (standard version)* • *DM-TM-R-50 (version with ROOM IDENT)* • *DM-TM-B-50 (version with bargraph display)* • *DM-TM-RB-50 (version with ROOM IDENT, bargraph display)* • *DM-TM-Z-50 (version with redundancy fan)* • *DM-TM-ZB-50 (version with redundancy fan, bargraph display)* • *DM-TM-50-F (deep freeze version)* • *DM-TM-B-50-F (version with bargraph display, deep freeze)* • *DM-TMV-50 (version with 2 stages of alarm)* • *DM-TMV-R-50 (version with 2 stages of alarm, ROOM IDENT)* • *DM-TMV-B-50 (version with 2 stages of alarm, bargraph display)* • *DM-TMV-RB-50 (version with 2 stages of alarm, ROOM IDENT, bargraph display)* • *DM-TMV-50-F (version with 2 stages of alarm, deep freeze)* • *DM-TMV-B-50-F (version with 2 stages of alarm, bargraph display, deep freeze)* • *DM-MB-TM-50 (version without fan to be used as detector box)* • *DM-MB-TM-B-50 (version without fan to be used as detector box, bargraph display)*	
TITANUS RACK-SENS	***Notes:*** *1. Approval of the detector is conditional upon the following requirements:* • *For compliance with Clause 5.10 of EN 54-20: 2006, the detector shall be supplied with power from a power supply conforming to the requirements of EN 54-4.* • *System design, installation and commissioning shall be performed in accordance with the manufacturer's installation guide, associated manuals and design software TF-SC-1.* • *The detector shall be installed with sampling pipe conforming to EN 61386-1, to at least Class 1131.* *2. Approved detector configurations (Class A, Class B and Class C):* • *TR1-10 (placed in a '1U' housing, sensitivity of 0.10%/m)* • *TR1-50 (placed in a '1U' housing, sensitivity of 0.50%/m)* • *TR2-10 (placed in a '2U' housing, sensitivity of 0.10%/m)* • *TR2-50 (placed in a '2U' housing, sensitivity of 0.50%/m)*	524c/05

A copy of the certificate, confirming the full scope of approval including notes relating to the superscript references in the above table, may be viewed online by clicking on the product name in the associated entry on www.RedBookLive.com

---

Walter Kidde Portable Equipment Inc. (Trading as Edwards, A Carrier Company)

8985 Town Center Parkway, Bradenton, FL 34202, USA

Certificate No: 904b-(cl-1) to EN 54-5:2017 + A1:2018

Certificated Products		LPCB Ref. No.
SIGA-HRDI	Intelligent Category A1/A2R Fixed Temperature and Rate of Rise Heat Detector (SIGA-SB, SIGA-SB4, SIGA-RB, SIGA-RB4,SIGA-IB, SIGA-IB4, SIGI-IBS and SIGA-AB4G bases) Note: 1) The SIGA-LED indicator is also approved for use with the SIGA-SB and SIGA-SB4 bases.	904b/03

Bases:
SIGI-IBS Isolator base
SIGA-SB Standard base
SIGA-SB4 Standard base with trim skirt
SIGA-RB Relay base
SIGA-RB4 Relay base with trim skirt
SIGA-IB Isolator Base
SIGA-IB4 Isolator base with 4 inch mounting adaptors
SIGA-AB4G Sounder base
SIGA-AB4GI Addressable Type A sounder base RoHS model

Accessories:
SIGA-LED Indicator
A copy of the certificate, confirming the full scope of approval including notes relating to the superscript references in the above table, may be viewed online by clicking on the product name in the associated entry on www.RedBookLive.com

Certificate No: 904d-(cl-1) to EN 54-7:2018

Certificated Products		LPCB Ref. No.
SIGA-PDI	Intelligent Photoelectric Smoke Detector (SIGA-SB, SIGA-SB4, SIGA-IB, SIGA-IB4, SIGI-IBS, SIGA-RB, SIGA-RB4, SIGA-AB4G) Notes: 1. Meets the requirements of EN 54-7:2018 at sensitivity settings 1.0%/ft, 2%/ft, 2.5%/ft, 3%/ft, and 3.5%/ft. 2. The SIGA-LED indicator is approved for use with the SIGA-SB and SIGA-SB4 bases.	904d/03

Bases:
SIGI-IBS Isolator base
SIGA-SB Standard base
SIGA-SB4 Standard base with trim skirt
SIGA-RB Relay base
SIGA-RB4 Relay base with trim skirt
SIGA-IB Isolator Base
SIGA-IB4 Isolator base with 4 inch mounting adaptors
SIGA-AB4G Sounder base
SIGA-AB4GI Addressable Type A sounder base RoHS model

Accessories:
SIGA-LED Indicator
A copy of the certificate, confirming the full scope of approval including notes relating to the superscript references in the above table, may be viewed online by clicking on the product name in the associated entry on www.RedBookLive.com

Certificate No: 904e-(cl-1) to EN 54-5:2017 + A1:2018, EN 54-7:2018, CEA 4021:2003

Certificated Products		LPCB Ref. No.
SIGA-PHDI	Intelligent Category A2R Multisensor Photo-Heat Detector (SIGA-SB, SIGA-SB4, SIGA-RB, SIGA-RB4, SIGA-IB, SIGA-IB4, SIGI-IBS and SIGA-AB4G bases) Notes: 1) Meets the requirements of EN 54-7:2018 at sensitivity settings 1.0%/ft, 2%/ft, 2.5%/ft, 3%/ft, and 3.5%/ft. 2) Meets the requirements of EN 54-5 at Category A2R 3) The SIGA-LED indicator is approved for use with the SIGA-SB and SIGA-SB4 bases	904e/02

Bases:
SIGI-IBS Isolator base with switch
SIGA-SB Standard base
SIGA-SB4 Standard base with trim skirt
SIGA-RB Relay base
SIGA-RB4 Relay base with trim skirt
SIGA-IB Isolator Base
SIGA-IB4 Isolator base with 4 inch mounting adaptors
SIGA-AB4G Sounder base
SIGA-AB4GI Addressable Type A sounder base RoHS model

Accessories:
SIGA-LED Indicator
A copy of the certificate, confirming the full scope of approval including notes relating to the superscript references in the above table, may be viewed online by clicking on the product name in the associated entry on www.RedBookLive.com

Certificate No: 904q-(cl-1) to EN 54-5:2017 + A1:2018

Certificated Products		LPCB Ref. No.
SIGA-HFDI	Intelligent Category A2S Fixed Heat Detector (SIGA-SB, SIGA-SB4, SIGA-IB, SIGA-IB4, SIGA-RB, SIGA-RB4) Notes: 1. Meets the requirements of EN 54-5 at Heat Category A2S	904q/01

Bases

SIGA-SB	Standard Base
SIGA-SB4	Standard Base with Trim Skirt
SIGA-IB	Isolator Base
SIGA-IB4	Isolator Base with Trim Skirt
SIGA-RB	Relay Base
SIGA-RB4	Relay Base with Trim Skirt

A copy of the certificate, confirming the full scope of approval including notes relating to the superscript references in the above table, may be viewed online by clicking on the product name in the associated entry on www.RedBookLive.com

Certificate No: 904m-(cl-1) to EN 54-7:2018, EN 54-17:2005

Certificated Products		LPCB Ref. No.
SIGI-OSDI	Intelligent Photoelectric Smoke Detector with Short Circuit Isolator (SIGI-SB base) Notes: 1. Meets the requirements of EN 54-7 at sensitivity settings 1.0%/ft, 2%/ft, 2.5%/ft, 3%/ft, and 3.5%/ft.	904m/01

Base

SIGI-SB	Standard Base

A copy of the certificate, confirming the full scope of approval including notes relating to the superscript references in the above table, may be viewed online by clicking on the product name in the associated entry on www.RedBookLive.com

Certificate No: 904k-(cl-1) to EN 54-7:2018

Certificated Products		LPCB Ref. No.
SIGA-OSDI	Intelligent Photoelectric Smoke Detector (SIGA-SB, SIGA-SB4, SIGA-IB, SIGA-IB4, SIGA-RB, SIGA-RB4) Notes: 1. Meets the requirements of EN 54-7 at sensitivity settings 1.0%/ft, 2%/ft, 2.5%/ft, 3%/ft, and 3.5%/ft.	904k/01

Bases

SIGA-SB	Standard Base
SIGA-SB4	Standard Base with Trim Skirt
SIGA-IB	Isolator Base
SIGA-IB4	Isolator Base with Trim Skirt
SIGA-RB	Relay Base
SIGA-RB4	Relay Base with Trim Skirt

A copy of the certificate, confirming the full scope of approval including notes relating to the superscript references in the above table, may be viewed online by clicking on the product name in the associated entry on www.RedBookLive.com

Certificate No: 904p-(cl-1) to EN 54-7:2018, EN 54-5:2017 + A1:2018, EN 54-17:2005

Certificated Products		LPCB Ref. No.
SIGI-OSHDI	Intelligent Multisensor Category A2R Photo-Heat Detector with Short Circuit Isolator (SIGI-SB base) Notes: 1. Meets the requirements of EN 54-7 at sensitivity settings 1.0%/ft, 2%/ft, 2.5%/ft, 3%/ft, and 3.5%/ft. 2. Meets the requirements of EN 54-5 at Heat Category A2R 3. Note: The SIGI-OSHDI is a Smoke-Heat detector where the individual heat detector meets the requirement of EN 54-5 at category A2R and the individual smoke detector meets EN 54-7 at sensitivity setting 1%-3.5%ft, however when used as a combined smoke and heat detector, they can only meet the EN 54-5 and EN 54-7 requirement	904p/01

Certificated Products		LPCB Ref. No.
	when installed in an environment of < 93% noncondensing humidity as specified by the manufacturer.	

Bases

SIGI-SB	Standard Base

A copy of the certificate, confirming the full scope of approval including notes relating to the superscript references in the above table, may be viewed online by clicking on the product name in the associated entry on www.RedBookLive.com

Certificate No: 904n-(cl-1) to EN 54-7:2018, EN 54-5:2017 + A1:2018

Certificated Products		LPCB Ref. No.
SIGA-OSHDI	Intelligent Multisensor Category A2R Photo-Heat Detector (SIGA-SB, SIGA-SB4, SIGA-IB, SIGA-IB4, SIGA-RB, SIGA-RB4) Notes: 1. Meets the requirements of EN 54-7 at sensitivity settings 1.0%/ft, 2%/ft, 2.5%/ft, 3%/ft, and 3.5%/ft. 2. Meets the requirements of EN 54-5 at Heat Category A2R 3. Note: The SIGI-OSHDI is a Smoke-Heat detector where the individual heat detector meets the requirement of EN 54-5 at category A2R and the individual smoke detector meets EN 54-7 at sensitivity setting 1%-3.5%ft, however when used as a combined smoke and heat detector, they can only meet the EN 54-5 and EN 54-7 requirement when installed in an environment of < 93% noncondensing humidity as specified by the manufacturer.	904n/01

Bases

SIGA-SB	Standard Base
SIGA-SB4	Standard Base with Trim Skirt
SIGA-IB	Isolator Base
SIGA-IB4	Isolator Base with Trim Skirt
SIGA-RB	Relay Base
SIGA-RB4	Relay Base with Trim Skirt

A copy of the certificate, confirming the full scope of approval including notes relating to the superscript references in the above table, may be viewed online by clicking on the product name in the associated entry on www.RedBookLive.com

Wizmart Technology Inc.

Building B, No 88, Changyang Road, Jiangbei Investment Pioneering Park, Ningbo, Zhejiang 315033, China
Tel: +86-574-55003366
E-mail: rock@wizmart.cn • Website: http://wizmart.biz/

Certificate No: 1163g to EN 54-5:2017 + A1:2018

Heat Detectors

Certificated Products		LPCB Ref. No.
NB380-H2	2-Wire Conventional Heat Detector (972913 Base) Note: 1. Meets the requirement of Class A1R	1163g/01
NB380-H2L	2-Wire Conventional Heat Detector with Remote LED Output (972914 Base) Note: 1. Meets the requirement of Class A1R	1163g/02
NB380-H4R	4-Wire Conventional Heat Detector with Relay Output (972915 Base) Note: 1. Meets the requirement of Class A1R	1163g/03
NB380F-H2	2-Wire Conventional Heat Detector (LED Flashes when Quiescent) (972913 Base) Note: 1. Meets the requirement of Class A1R	1163g/04
NB380F-H2L	2-Wire Conventional Heat Detector with Remote LED Output (LED Flashes when	1163g/05

Certificated Products		LPCB Ref. No.
	Quiescent) (972914 Base) Note: 1. Meets the requirement of Class A1R	
NB380F-H4R	4-Wire Conventional Heat Detector with Relay Output (LED Flashes when Quiescent) (972915 Base) Note: 1. Meets the requirement of Class A1R	1163g/06

Bases

972913	Low profile 100mm diameter base
972914	Low profile 100mm diameter base with remote LED Connection
972915	Low profile 100mm diameter base 4 wire

A copy of the certificate, confirming the full scope of approval including notes relating to the superscript references in the above table, may be viewed online by clicking on the product name in the associated entry on www.RedBookLive.com

Certificate No: 1163h to EN 54-7:2018

Smoke Detectors

Certificated Products		LPCB Ref. No.
NB380-S2	2-Wire Conventional Smoke Detector (972913 Base)	1163h/01
NB380-S2L	2-Wire Conventional Smoke Detector with Remote LED Output (972914 Base)	1163h/02
NB380-S4R	4-Wire Conventional Smoke Detector with Relay Output (972915 Base)	1163h/03
NB380F-S2	2-Wire Conventional Smoke Detector (LED Flashes when Quiescent) (972913 Base)	1163h/04
NB380F-S2L	2-Wire Conventional Smoke Detector with Remote LED Output (LED Flashes when Quiescent) (972914 Base)	1163h/05
NB380F-S4R	4-Wire Conventional Smoke Detector with Relay Output (LED Flashes when Quiescent) (972915 Base)	1163h/06

Bases

972913	Low profile 100mm diameter base
972914	Low profile 100mm diameter base with remote LED Connection
972915	Low profile 100mm diameter base 4 wire

A copy of the certificate, confirming the full scope of approval including notes relating to the superscript references in the above table, may be viewed online by clicking on the product name in the associated entry on www.RedBookLive.com

Certificate No: 1163j to EN 54-5:2017 + A1:2018 & EN 54-7:2018

Multi-Sensor/Multi-Criteria Detectors

Certificated Products		LPCB Ref. No.
NB380-SH2	2-Wire Conventional Smoke and Heat Detector (972913 Base) Note: 1. Meets the requirements of Class A2	1163j/01
NB380-SH2L	2-Wire Conventional Smoke and Heat Detector with Remote LED Output (972914 Base) Note: 1. Meets the requirements of Class A2	1163j/02
NB380-SH4R	4-Wire Conventional Smoke and Heat Detector with Relay Output (972915 Base) Note: 1. Meets the requirements of Class A2	1163j/03
NB380F-SH2	2-Wire Conventional Smoke and Heat Detector (LED Flashes when Quiescent) (972913 Base) Note: 1. Meets the requirements of Class A2	1163j/04
NB380F-SH2L	2-Wire Conventional Smoke and Heat Detector with Remote LED Output (LED Flashes when Quiescent) (972914 Base) Note: 1. Meets the requirements of Class A2	1163j/05
NB380F-SH4R	4-Wire Conventional Smoke and Heat Detector with Relay Output (LED Flashes when Quiescent) (972915 Base) Note: 1. Meets the requirements of Class A2	1163j/06

Bases

972913	Low profile 100mm diameter base
972914	Low profile 100mm diameter base with remote LED Connection
972915	Low profile 100mm diameter base 4 wire

A copy of the certificate, confirming the full scope of approval including notes relating to the superscript references in the above table, may be viewed online by clicking on the product name in the associated entry on www.RedBookLive.com

Certificate No: 1163m to EN 54-5:2017 + A1:2018 & EN 54-17:2005

Heat Detectors

Certificated Products		LPCB Ref. No.
NB390A-HP	Addressable Heat Detector (A2R or A2S) with Short Circuit Isolator (982913 base) Note: 1. Meets the requirements of EN 54-5 for the following settings: - Category A2R - Category A2S	1163m/01
NB390A-HPL	Addressable Heat Detector (A2R or A2S) with Remote LED Output and Short Circuit Isolator (982914 base) Note: 1. Meets the requirements of EN 54-5 for the following settings: - Category A2R - Category A2S	1163m/02
NB390D-HF	Addressable Heat Detector (A2S) with DIP Switch and Short Circuit Isolator (982913 base) Note: 1. Meets the requirements of EN 54-5 for the following settings: - Category A2S	1163m/03
NB390D-HFL	Addressable Heat Detector (A2S) with DIP Switch, Remote LED Output and Short Circuit Isolator (982914 base) Note: 1. Meets the requirements of EN 54-5 for the following settings: - Category A2S	1163m/04
NB390D-HR	Addressable Heat Detector (A2R) with DIP Switch and Short Circuit Isolator (982913 base) Note: 1. Meets the requirements of EN 54-5 for the following settings: - Category A2R	1163m/05
NB390D-HRL	Addressable Heat Detector (A2R) with DIP Switch, Remote Indicator and Short Circuit Isolator (982914 base) Note: 1. Meets the requirements of EN 54-5 for the following settings: - Category A2R	1163m/06

Bases

982913 3-Term Low profile 100mm diameter base with SCI
982914 4-Term Low profile 100mm diameter base with SCI

A copy of the certificate, confirming the full scope of approval including notes relating to the superscript references in the above table, may be viewed online by clicking on the product name in the associated entry on www.RedBookLive.com

Certificate No: 1163k to EN 54-7:2018 & EN 54-17:2005

Smoke Detectors

Certificated Products		LPCB Ref. No.
NB390A-S	Addressable Smoke Detector with Short Circuit Isolator (982913 base)	1163k/01
NB390A-SL	Addressable Smoke Detector with Remote LED Output and Short Circuit Isolator (982914 base)	1163k/02
NB390D-S	Addressable Smoke Detector with DIP Switch and Short Circuit Isolator (982913 base)	1163k/03
NB390D-SL	Addressable Smoke Detector with DIP Switch, Remote LED Output and Short Circuit Isolator (982914 base)	1163k/04

Bases

982913 3-Term Low profile 100mm diameter base with SCI
982914 4-Term Low profile 100mm diameter base with SCI

A copy of the certificate, confirming the full scope of approval including notes relating to the superscript references in the above table, may be viewed online by clicking on the product name in the associated entry on www.RedBookLive.com

Certificate No: 1163n to EN54-5: 2017 + A1: 2018, EN 54-7:2018, EN 54-17:2005

Multi-Sensor/Multi-Criteria Detectors

Certificated Products		LPCB Ref. No.
NB390A-SHP	Addressable Smoke and Heat Detector (A2R or A2S) and Short Circuit Isolator (982913 base) Notes: 1. Meets the requirements of EN 54-5 for the following settings: - Category A2R - Category A2S	1163n/01
NB390A-SHPL	Addressable Smoke and Heat Detector (A2S or A2R) with Remote LED Output and Short Circuit Isolator (982914 base) Notes: 1. Meets the requirements of EN 54-5 for the following settings: - Category A2R - Category A2S	1163n/02
NB390D-SHF	Addressable Smoke and Heat Detector (A2S) with DIP Switch and Short Circuit Isolator (982913 base) Notes: 1. Meets the requirements of EN 54-5 for the following settings: - Category A2S	1163n/03
NB390D-SHFL	Addressable Smoke and Heat Detector (A2S) with DIP Switch, Remote LED Output and Short Circuit Isolator (982914 base) Notes: 1. Meets the requirements of EN 54-5 for the following settings: - Category A2S	1163n/04
NB390D-SHR	Addressable Smoke and Heat Detector (A2R) with DIP Switch and Short Circuit Isolator (982913 base) Notes: 1. Meets the requirements of EN 54-5 for the following settings: - Category A2R	1163n/05
NB390D-SHRL	Addressable Smoke and Heat Detector (A2R) with DIP Switch, Remote LED Output and Short Circuit Isolator (982914 base) Notes: 1. Meets the requirements of EN 54-5 for the following settings: - Category A2R	1163n/06

Bases

982913 3-Term Low profile 100mm diameter base with SCI
982914 4-Term Low profile 100mm diameter base with SCI

A copy of the certificate, confirming the full scope of approval including notes relating to the superscript references in the above table, may be viewed online by clicking on the product name in the associated entry on www.RedBookLive.com

---

Xtralis Pty Limited

4 North Drive, Virginia Park, 236-262 East Boundary Road, East Bentleigh, Victoria 3165, Australia
Tel: +61 3 9936 7001, +44 (0)1442 242330 • Fax: +61 3 9936 7201
E-mail: marketing-emea@xtralis.com • Website: www.xtralis.com

European Operations at:

Xtralis (UK) Limited, Vision House, Focus 31, Mark Road, Hemel Hempstead, Hertfordshire HP2 7BW, United Kingdom
Tel: +44 (0)1442 242330 • Fax: +44 (0)1442 249327

Certificate No: 305e to EN 54-20: 2006

Aspirating Smoke Detectors

Certificated Products		LPCB Ref. No.
XCC-010 (XCC-01000-NF)	Xtralis Class C aspirating smoke detector *Notes:* *1. For compliance with clause 5.10 of EN 54-20 the detector shall be supplied with power from a power supply conforming with the requirements of EN 54-4.* *2. System design, installation and commissioning shall be performed in accordance with the Xtralis Class C XCC-010 product guide (Document 14159).* *3. The device is approved for sensitivity Class C.*	305e/01

Certificated Products		LPCB Ref. No.
	4. The detector is also approved when used with in-line filter models, E700-FILASSY and VSP-850 in accordance with the appropriate VESDA application guide (10856 or 17785). *5. When installing pipework systems containing in-line components, guidance from the 18336 "Xtralis Open-flow In-Line Components" document shall be sought and the recommendations followed.* *6. XCC-01000-NF alternative model number intended for French market.*	
XCC-010 (XCC-01000-NF)	Xtralis Class C aspirating smoke detector *Notes:* *1. For compliance with clause 5.10 of EN 54-20 the detector shall be supplied with power from a power supply conforming with the requirements of EN 54-4.* *2. System design, installation and commissioning shall be performed in accordance with the Xtralis Class C XCC-010 product guide (Document 14159).* *3. The device is approved for sensitivity Class C.* *4. The detector is also approved when used with in-line filter models, E700-FILASSY and VSP-850 in accordance with the appropriate VESDA application guide (10856 or 17785).* *5. When installing pipework systems containing in-line components, guidance from the 18336 "Xtralis Open-flow In-Line Components" document shall be sought and the recommendations followed.* *6. XCC-01000-NF alternative model number intended for French market.*	305e/02
XCC-011 (XCC-01100-NF)	Xtralis Class C aspirating smoke detector *Notes:* *1. For compliance with clause 5.10 of EN 54-20 the detector shall be supplied with power from a power supply conforming with the requirements of EN 54-4.* *2. System design, installation and commissioning shall be performed in accordance with the Xtralis Class C XCC-011 product guide (Document 19137).* *3. The device is approved for sensitivity Class C.* *4. The detector is also approved when used with in-line filter models, E700-FILASSY and VSP-850 in accordance with the appropriate VESDA application guide (10856 or 17785).* *5. When installing pipework systems containing in-line components, guidance from the 18336 "Xtralis Open-flow In-Line Components" document shall be sought and the recommendations followed.* *6. XCC-01100-NF alternative model number intended for French market.*	305e/03
XCC-011 (XCC-01100-NF)	Xtralis Class C aspirating smoke detector *Notes:* *1. For compliance with clause 5.10 of EN 54-20 the detector shall be supplied with power from a power supply conforming with the requirements of EN 54-4.* *2. System design, installation and commissioning shall be performed in accordance with the Xtralis Class C XCC-011 product guide (Document 19137).* *3. The device is approved for sensitivity Class C.* *4. The detector is also approved when used with in-line filter models, E700-FILASSY and VSP-850 in accordance with the appropriate VESDA application guide (10856 or 17785).* *5. When installing pipework systems containing in-line components, guidance from the 18336 "Xtralis Open-flow In-Line Components" document shall be sought and the recommendations followed.* *6. XCC-01100-NF alternative model number intended for French market.*	305e/04

Accessories:
E700-FILASSY In line filter
VSP-850 In line filter

A copy of the certificate, confirming the full scope of approval including notes relating to the superscript references in the above table, may be viewed online by clicking on the product name in the associated entry on www.RedBookLive.com

Certificate No: 305d to EN 54-20: 2006

Aspirating Smoke Detectors

Certificated Products		LPCB Ref. No.
VESDA VLF-250-xx (VLF-250-01NF*) high sensitivity aspirating smoke detector	Incorporating the following ancillary equipment: - VIC-010 VESDAnet network card - VIC-020 Multifunction control card - VIC-030 Multifunction control card - VRT-V00 Remote VLF display (with 7 relays) - VRT-W00 Remote VLF display (no relays) - VRT-500 Remote relay unit (with 7 relays)	305d/01

Certificated Products		LPCB Ref. No.
	Notes: *1. For compliance with clause 5.10 of EN 54-20 the detector shall be supplied with power from a power supply conforming to the requirements of EN 54-4.* 2. The device is approved for sensitivity Classes A, B and C. The Class of any pipe/hole configuration and detector sensitivity must be determined using ASPIRE2. *3. System design, installation and commissioning shall be performed in accordance with the VESDA VLF product guide (07208).* 4. Remote display, programmer and relay modules are also approved in a 19 sub rack. *5. The detector is also approved when used with in-line filter models, E700-FILASSY and VSP-850 in accordance with the appropriate VESDA application guide (10856 or 17785).* 6. xx denotes alternative language version where xx (range 00 to 99) designates the language of the product labels. 7. Alternative model number with suffix* as indicated, intended for French market. 8. When installing pipework systems containing in-line components, guidance from the 18336 "Xtralis Open-flow In-Line Components" document shall be sought and the recommendations followed.	
VESDA VLF-500-xx (VLF-500-01NF*) high sensitivity aspirating smoke detector	Incorporating the following ancillary equipment: - VIC-010 VESDAnet network card - VIC-020 Multifunction control card - VIC-030 Multifunction control card - VRT-V00 Remote VLF display (with 7 relays) - VRT-W00 Remote VLF display (no relays) - VRT-500 Remote relay unit (with 7 relays) *Notes:* *1. For compliance with clause 5.10 of EN 54-20 the detector shall be supplied with power from a power supply conforming to the requirements of EN 54-4.* *2. The device is approved for sensitivity Classes A, B and C. The Class of any pipe/hole configuration and detector sensitivity must be determined using ASPIRE2.* *3. System design, installation and commissioning shall be performed in accordance with the VESDA VLF product guide (07209).* *4. Remote display, programmer and relay modules are also approved in a 19 sub rack.* *5. The detector is also approved when used with in-line filter models, E700-FILASSY and VSP-850 in accordance with the appropriate VESDA application guide (10856 or 17785).* *6. xx denotes alternative language version where xx (range 00 to 99) designates the language of the product labels.* *7. Alternative model number with suffix* as indicated, intended for French market.* 8. When installing pipework systems containing in-line components, guidance from the 18336 "Xtralis Open-flow In-Line Components" document shall be sought and the recommendations followed.	305d/02
VESDA VLC High sensitivity aspirating smoke detector	Approved configurations: - VLC-500 (VLF-50000-NF*) VLC Relays only (RO) version - VLC-505 (VLF-50500-NF*) VLC VESDAnet (VN) version - VLC-400 (VLF-400-NF*) VLC Apollo (AP) version - VLC-700 (801519.F0*) VLC Esser (EB) version - VLC-800 (VLF-800-NF*) VLC Tyco (MX) version Approved remote units with the VLC-505 VESDAnet (VN) version: - VRT-J00 Remote VLC display (with 7 relays) - VRT-K00 Remote VLC display (no relays) - VRT-500 Remote relay unit (with 7 relays) *Notes:* *1. For compliance with clause 5.10 of EN 54-20 the detector shall be supplied with power from a power supply conforming to the requirements of EN 54-4.* *2. The device is approved for sensitivity Classes A, B and C. The Class of any pipe/hole configuration and detector sensitivity must be determined using ASPIRE2.* *3. System design, installation and commissioning shall be performed in accordance with the VESDA VLC product guides (10280 [VLC-500 & VLC-505], 03494 [VLC-400], 09411 [VLC-700], 09515 [VLC-800]).* *4. Remote display, programmer and relay modules are also approved in a 19 sub rack.* *5. The detector is also approved when used with in-line filter models, E700-FILASSY and VSP-850 in accordance with the appropriate VESDA application guide (10856 or 17785).* *6. Alternative model numbers with suffix* as indicated, intended for French market.* 7. When installing pipework systems containing in-line components, guidance from the 18336 "Xtralis Open-flow In-Line Components" document shall be sought and the recommendations followed	305d/03
VESDA VLP High sensitivity aspirating smoke detector	Approved Configurations: VLP-012 (VLP-01200-NF*) VLP detector with Display & Programmer VLP-002 (VLP-00200-NF*) VLP detector with Display VLP-400 (VLP-00000-NF*) VLP detector with Fire/OK LEDs only	305d/04

Certificated Products		LPCB Ref. No.
	VLP-401 (VLP-00100-NF*) VLP detector with Programmer & Fire/OK LEDs VLP-100 VLP detector with OEM cover Approved remote units: VRT-100 Remote Programmer VRT-200 Remote VLP Display unit (with 7 relays) VRT-300 VESDAnet socket VRT-500 Remote Relay unit (with 7 relays) VRT-600 Remote VLP Display unit (without relays) *Notes:* *1. For compliance with clause 5.10 of EN 54-20 the detector shall be supplied with power from a power supply conforming to the requirements of EN 54-4.* *2. The device is approved for sensitivity Classes A, B and C. The Class of any pipe/hole configuration and detector sensitivity must be determined using ASPIRE2.* *3. System design, installation and commissioning shall be performed in accordance with the VESDA VLP product guide (10278).* *4. Remote display, programmer and relay modules are also approved in a 19 sub rack.* *5. The detector is also approved when used with in-line filter models, E700-FILASSY and VSP-850 in accordance with the appropriate VESDA application guide (10856 or 17785).* *6. Alternative model numbers with suffix* as indicated, intended for French market.* 7. When installing pipework systems containing in-line components, guidance from the 18336 "Xtralis Open-flow In-Line Components" document shall be sought and the recommendations followed.	
VESDA VLS High sensitivity aspirating smoke detector	Approved Configurations: VLS-600 (VLS-20000-NF*) VLS with 7 relays and Fire/OK LEDs VLS-204 (VLS-20400-NF*) VLS with 7 Relays and Display Module VLS-214 (VLS-21400-NF*) VLS with 7 Relays, Display and Program Module VLS-700 (VLS-30000-NF*) VLS with 12 relays and Fire/OK LEDs VLS-304 (VLS-30400-NF*) VLS with 12 Relays and Display Module VLS-314 (VLS-31400-NF*) VLS with 12 Relays, Display and Program Module VLS-100 VLS with 7 Relays and OEM cover VLS-500 VLS with 12 Relays and OEM cover Approved Remote Units: VRT-400 Remote Scanner Display with 7 relays VRT-700 Remote Scanner Display with no relays VRT-800 Remote Scanner Display with 12 relays VRT-900 Remote Scanner Relays -12 relays VRT-E00 Remote Scanner Relays - 7 relays *Notes:* *1. For compliance with clause 5.10 of EN 54-20 the detector shall be supplied with power from a power supply conforming to the requirements of EN 54-4.* *2. The device is approved for sensitivity Classes A, B and C. The Class of any pipe/hole configuration and detector sensitivity must be determined using ASPIRE2.* *3. System design, installation and commissioning shall be performed in accordance with the VESDA VLS product guide (10279).* *4. Remote display, programmer and relay modules are also approved in a 19 sub rack.* *5. The detector is also approved when used with in-line filter models, E700-FILASSY and VSP-850 in accordance with the appropriate VESDA application guide (10856 or 17785).* *6. Alternative model numbers with suffix* as indicated, intended for French market.* 7. When installing pipework systems containing in-line components, guidance from the 18336 "Xtralis Open-flow In-Line Components" document shall be sought and the recommendations followed	305d/05
VESDA VLF-250-xx (VLF-250-01NF*) high sensitivity aspirating smoke detector	Incorporating the following ancillary equipment: - VIC-010 VESDAnet network card - VIC-020 Multifunction control card - VIC-030 Multifunction control card - VRT-V00 Remote VLF display (with 7 relays) - VRT-W00 Remote VLF display (no relays) - VRT-500 Remote relay unit (with 7 relays) *Notes:* *1. For compliance with clause 5.10 of EN 54-20 the detector shall be supplied with power from a power supply conforming to the requirements of EN 54-4.* 2. The device is approved for sensitivity Classes A, B and C. The Class of any pipe/hole configuration and detector sensitivity must be determined using ASPIRE2. *3. System design, installation and commissioning shall be performed in accordance with the VESDA VLF product guide (07208).* 4. Remote display, programmer and relay modules are also approved in a 19 sub rack. *5. The detector is also approved when used with in-line filter models, E700-FILASSY and VSP-850 in accordance with the appropriate VESDA application guide (10856 or 17785).* 6. xx denotes alternative language version where xx (range 00 to 99) designates the	305d/06

Certificated Products		LPCB Ref. No.
	language of the product labels. 7. Alternative model number with suffix* as indicated, intended for French market. 8. When installing pipework systems containing in-line components, guidance from the 18336 "Xtralis Open-flow In-Line Components" document shall be sought and the recommendations followed.	
VESDA VLF-500-xx (VLF-500-01NF*) high sensitivity aspirating smoke detector	Incorporating the following ancillary equipment: - VIC-010 VESDAnet network card - VIC-020 Multifunction control card - VIC-030 Multifunction control card - VRT-V00 Remote VLF display (with 7 relays) - VRT-W00 Remote VLF display (no relays) - VRT-500 Remote relay unit (with 7 relays) *Notes:* *1. For compliance with clause 5.10 of EN 54-20 the detector shall be supplied with power from a power supply conforming to the requirements of EN 54-4.* *2. The device is approved for sensitivity Classes A, B and C. The Class of any pipe/hole configuration and detector sensitivity must be determined using ASPIRE2.* *3. System design, installation and commissioning shall be performed in accordance with the VESDA VLF product guide (07209).* *4. Remote display, programmer and relay modules are also approved in a 19 sub rack.* *5. The detector is also approved when used with in-line filter models, E700-FILASSY and VSP-850 in accordance with the appropriate VESDA application guide (10856 or 17785).* *6. xx denotes alternative language version where xx (range 00 to 99)designates the language of the product labels.* *7. Alternative model number with suffix* as indicated, intended for French market.* 8. When installing pipework systems containing in-line components, guidance from the 18336 "Xtralis Open-flow In-Line Components" document shall be sought and the recommendations followed.	305d/07
VESDA VLC High sensitivity aspirating smoke detector	Approved configurations: - VLC-500 (VLF-50000-NF*) VLC Relays only (RO) version - VLC-505 (VLF-50500-NF*) VLC VESDAnet (VN) version - VLC-400 (VLF-400-NF*) VLC Apollo (AP) version - VLC-700 (801519.F0*) VLC Esser (EB) version - VLC-800 (VLF-800-NF*) VLC Tyco (MX) version Approved remote units with the VLC-505 VESDAnet (VN) version: - VRT-J00 Remote VLC display (with 7 relays) - VRT-K00 Remote VLC display (no relays) - VRT-500 Remote relay unit (with 7 relays) *Notes:* *1. For compliance with clause 5.10 of EN 54-20 the detector shall be supplied with power from a power supply conforming to the requirements of EN 54-4.* *2. The device is approved for sensitivity Classes A, B and C. The Class of any pipe/hole configuration and detector sensitivity must be determined using ASPIRE2.* *3. System design, installation and commissioning shall be performed in accordance with the VESDA VLC product guides (10280 [VLC-500 & VLC-505], 03494 [VLC-400], 09411 [VLC-700], 09515 [VLC-800]).* *4. Remote display, programmer and relay modules are also approved in a 19 sub rack.* *5. The detector is also approved when used with in-line filter models, E700-FILASSY and VSP-850 in accordance with the appropriate VESDA application guide (10856 or 17785).* *6. Alternative model numbers with suffix* as indicated, intended for French market.* 7. When installing pipework systems containing in-line components, guidance from the 18336 "Xtralis Open-flow In-Line Components" document shall be sought and the recommendations followed.	305d/08
VESDA VLP High sensitivity aspirating smoke detector	Approved Configurations: VLP-012 (VLP-01200-NF*) VLP detector with Display & Programmer VLP-002 (VLP-00200-NF*) VLP detector with Display VLP-400 (VLP-00000-NF*) VLP detector with Fire/OK LEDs only VLP-401 (VLP-00100-NF*) VLP detector with Programmer & Fire/OK LEDs VLP-100 VLP detector with OEM cover Approved remote units: VRT-100 Remote Programmer VRT-200 Remote VLP Display unit (with 7 relays) VRT-300 VESDAnet socket VRT-500 Remote Relay unit (with 7 relays) VRT-600 Remote VLP Display unit (without relays) Notes: *1. For compliance with clause 5.10 of EN 54-20 the detector shall be supplied with*	305d/09

Certificated Products		LPCB Ref. No.
	power from a power supply conforming to the requirements of EN 54-4. *2. The device is approved for sensitivity Classes A, B and C. The Class of any pipe/hole configuration and detector sensitivity must be determined using ASPIRE2.* *3. System design, installation and commissioning shall be performed in accordance with the VESDA VLP product guide (10278).* *4. Remote display, programmer and relay modules are also approved in a 19 sub rack.* *5. The detector is also approved when used with in-line filter models, E700-FILASSY and VSP-850 in accordance with the appropriate VESDA application guide (10856 or 17785).* *6. Alternative model numbers with suffix* as indicated, intended for French market.* 7. When installing pipework systems containing in-line components, guidance from the 18336 "Xtralis Open-flow In-Line Components" document shall be sought and the recommendations followed.	
VESDA VLS High sensitivity aspirating smoke detector	Approved Configurations: VLS-600 (VLS-20000-NF*) VLS with 7 relays and Fire/OK LEDs VLS-204 (VLS-20400-NF*) VLS with 7 Relays and Display Module VLS-214 (VLS-21400-NF*) VLS with 7 Relays, Display and Program Module VLS-700 (VLS-30000-NF*) VLS with 12 relays and Fire/OK LEDs VLS-304 (VLS-30400-NF*) VLS with 12 Relays and Display Module VLS-314 (VLS-31400-NF*) VLS with 12 Relays, Display and Program Module VLS-100 VLS with 7 Relays and OEM cover VLS-500 VLS with 12 Relays and OEM cover Approved Remote Units: VRT-400 Remote Scanner Display with 7 relays VRT-700 Remote Scanner Display with no relays VRT-800 Remote Scanner Display with 12 relays VRT-900 Remote Scanner Relays -12 relays VRT-E00 Remote Scanner Relays - 7 relays *Notes:* *1. For compliance with clause 5.10 of EN 54-20 the detector shall be supplied with power from a power supply conforming to the requirements of EN 54-4.* *2. The device is approved for sensitivity Classes A, B and C. The Class of any pipe/hole configuration and detector sensitivity must be determined using ASPIRE2.* *3. System design, installation and commissioning shall be performed in accordance with the VESDA VLS product guide (10279).* *4. Remote display, programmer and relay modules are also approved in a 19 sub rack.* *5. The detector is also approved when used with in-line filter models, E700-FILASSY and VSP-850 in accordance with the appropriate VESDA application guide (10856 or 17785).* *6. Alternative model numbers with suffix* as indicated, intended for French market.* 7. When installing pipework systems containing in-line components, guidance from the 18336 "Xtralis Open-flow In-Line Components" document shall be sought and the recommendations followed	305d/10

Accessories:
E700-FILASSY In line filter
VSP-850 In line filter

A copy of the certificate, confirming the full scope of approval including notes relating to the superscript references in the above table, may be viewed online by clicking on the product name in the associated entry on www.RedBookLive.com

Certificate No: 305g to EN 54-20: 2006

Aspirating Smoke Detectors

Certificated Products		LPCB Ref. No.
VLI-880	(VLI-88000-NF) VESDA Laser Industrial aspirating smoke detector Incorporating the following ancillary equipment: - VRT-Q00 Remote VLI display (with 7 relays) - VRT-T00 Remote VLI display (no relays) - VRT-500 Remote relay unit (with 7 relays) **Notes:** 1. For compliance with clause 5.10 of EN 54-20 the detector shall be supplied with power from a power supply conforming to the requirements of EN 54-4. 2. The device is approved for sensitivity Classes A, B and C. The Class of any pipe/hole configuration and detector sensitivity must be determined using ASPIRE2. 3. System design, installation and commissioning shall be performed in accordance with the VESDA VLI product guide (18500).	305g/01

Certificated Products		LPCB Ref. No.
	4. Remote display, programmer and relay modules are also approved in a 19 sub rack. 5. The detector is also approved when used with in-line filter models, E700-FILASSY and VSP-850 in accordance with the appropriate VESDA application guide (10856 or 17785). 6. VLI-88000-NF is the alternative model number intended for French market. 7. When installing pipework systems containing in-line components, guidance from the 18336 "Xtralis Open-flow In-Line Components" document shall be sought and the recommendations followed.	
VLI-885	(VLI-88500-NF) VESDA Laser Industrial aspirating smoke detector with VESDAnet card Incorporating the following ancillary equipment: - VRT-Q00 Remote VLI display (with 7 relays) - VRT-T00 Remote VLI display (no relays) - VRT-500 Remote relay unit (with 7 relays) **Notes:** 1. For compliance with clause 5.10 of EN 54-20 the detector shall be supplied with power from a power supply conforming to the requirements of EN 54-4. 2. The device is approved for sensitivity Classes A, B and C. The Class of any pipe/hole configuration and detector sensitivity must be determined using ASPIRE2. 3. System design, installation and commissioning shall be performed in accordance with the VESDA VLI product guide (18500). 4. Remote display, programmer and relay modules are also approved in a 19 sub rack. 5. The detector is also approved when used with in-line filter models, E700-FILASSY and VSP-850 in accordance with the appropriate VESDA application guide (10856 or 17785). 6. VLI-88500-NF alternative model number intended for French market. 7. When installing pipework systems containing in-line components, guidance from the 18336 "Xtralis Open-flow In-Line Components" document shall be sought and the recommendations followed.	305g/02
VLQ-100 (VLQ-10000-NF)	VESDA VLQ Aspirating Smoke Detector Notes: 1. For compliance with clause 5.10 of EN 54-20 the detector shall be supplied with power from a power supply conforming to the requirements of EN 54-4. 2. The device is approved for sensitivity Classes A, B and C. The Class of any pipe/hole configuration and detector sensitivity is provided in the VESDA VLQ Product Guide (26104). 3. System design, installation and commissioning shall be performed in accordance with the VESDA VLQ Product Guide (26104). 4. The detector is also approved when used with in-line filter model, VSP-850 in accordance with the VESDA application guide (17785). 5. The detector is also approved when used with the ECO gas detection module when fitted with the ECO-LQ Adaptor. 6. VLQ-10000-NF is the alternative model number intended for French market (Product Guide 26746). 7. When installing pipework systems containing in-line components, guidance from the 18336 "Xtralis Open-flow In-Line Components" document shall be sought and the recommendations followed.	305g/03
ILQ-100 (ILQ-10000-NF)	ICAM ILQ Aspirating Smoke Detector Notes: 1. For compliance with clause 5.10 of EN 54-20 the detector shall be supplied with power from a power supply conforming to the requirements of EN 54-4. 2. The device is approved for sensitivity Classes A, B and C. The Class of any pipe/hole configuration and detector sensitivity is provided in the ICAM ILQ Product Guide (26105). 3. System design, installation and commissioning shall be performed in accordance with the ICAM ILQ Product Guide (26105). 4. The detector is also approved when used with in-line filter model, VSP-850 in accordance with the application guide (17785). 5. The detector is also approved when used with the ECO gas detection module when fitted with the ECO-LQ Adaptor. 6. ILQ-10000-NF is the alternative model number intended for French market (Product Guide 26749). 7. When installing pipework systems containing in-line components, guidance from the 18336 "Xtralis Open-flow In-Line Components" document shall be sought and the recommendations followed.	305g/04

Accessories:
E700-FILASSY In line filter
VSP-850 In line filter

A copy of the certificate, confirming the full scope of approval including notes relating to the superscript references in the above table, may be viewed online by clicking on the product name in the associated entry on www.RedBookLive.com

Yingkou Tiancheng Fire Protection Equipment Co., Ltd

No. 11-2, Kechechang Xili,, Xishi District, Yingkou, Pilot Free Trade Zone, Liaoning 115004, China
Tel: +8618604079002
E-mail: wayne@tcfiretech.com • Website: www.tcfiretech.com

Certificate No: 1450c to EN54-7:2018

Certificated Products		LPCB Ref. No.
JTY-GM-TC5161	Addressable Photoelectric Smoke Detector (TCDZ5000 Base)	1450c/01

Base
TCDZ5000 – Standard Base

A copy of the certificate, confirming the full scope of approval including notes relating to the superscript references in the above table, may be viewed online by clicking on the product name in the associated entry on www.RedBookLive.com

Certificate No: 1450d to EN 54-5:2017+ A1: 2018

Certificated Products		LPCB Ref. No.
JTW-ZOM-TC5162	Addressable Class A2R Rate of Rise and Fixed Temperature Heat Detector (TCDZ5000 Base)	1450d/01

A copy of the certificate, confirming the full scope of approval including notes relating to the superscript references in the above table, may be viewed online by clicking on the product name in the associated entry on www.RedBookLive.com

Certificate No: 1450j to EN 54-29:2015

Certificated Products		LPCB Ref. No.
JTF-GOM-TC5163	Addressable Smoke and Heat Multi Detector (Standard Base) *Notes:* *1. Meets the requirements of EN 54-29 for Heat Category A2R* *2. Meets the requirements of EN 54-29 at Smoke sensitivity levels High, Medium and Low*	1450j/01

Standard Base
A copy of the certificate, confirming the full scope of approval including notes relating to the superscript references in the above table, may be viewed online by clicking on the product name in the associated entry on www.RedBookLive.com

Zeta Alarms Limited

Detection House, 72-78 Morfa Road, Swansea SA1 2EN, United Kingdom
Tel: +44 (0)1792 455175 • Fax: +44 (0)1792 455176
E-mail: ghassan@zetaalarmsystems.com • Website: www.zetaalarmsystems.com

Certificate No: 330n to EN54-7: 2000 + A1: 2002 + A2: 2006

Point Smoke Detectors

Certificated Products		LPCB Ref. No.
MKII-OP	Fyreye II Conventional optical smoke detector (FE-CB/D base, FE-CB/S base and FE-CB base) Note: 1. Meets the requirements of EN 54-7:2000 at Smoke Sensitivity setting Range:0.08%dB~ 0.12%dB	330n/01
MKII-AOP	Fyreye II Addressable optical smoke detector MKII-CB/D base and MKII-CB base) Note:	330n/02

Certificated Products		LPCB Ref. No.
	1) Meets the requirements of EN 54-7:2000 at Smoke Sensitivity setting Range:0.09%dB~ 0.11%dB	

Bases:
80-050 FE CB Common mounting base
80-052 FE DB Diode mounting base
80-054 FE RB Relay mounting base
80-080 FEA RB Addressable relay mounting base
80-090 FE IB Negative switching isolating base
FE-CB/D deep base
FE-CB/S shallow base
FE-CB standard base
A copy of the certificate, confirming the full scope of approval including notes relating to the superscript references in the above table, may be viewed online by clicking on the product name in the associated entry on www.RedBookLive.com

Certificate No: 330q to EN54-5: 2000 + A1: 2002

Point Heat Detectors

Certificated Products		LPCB Ref. No.
MKII-HF	Fyreye II Conventional A2S heat detector (FE-CB/D base, FE-CB/S base and FE-CB base) Note: 1. Meets the requirements of EN 54-5:2000 at Class A2S	330q/01
MKII-HR	Fyreye II Conventional A2R heat detector (FE-CB/D base, FE-CB/S base and FE-CB base) Note: 1. Meets the requirements of EN 54-5:2000 at Class A2R	330q/02
MKII-AHF	Fyreye II Addressable A2S heat detector MKII-CB/D base and MKII-CB base) Note: 1) Meets the requirements of EN 54-5:2000 at Class A2S	330q/03
MKII-AHR	Fyreye II Addressable A1R heat detector MKII-CB/D base and MKII-CB base) Note: 1) Meets the requirements of EN 54-5:2000 at Class A1R	330q/04
MKII-AHF/CS90	Fyreye MKII Addressable Fixed Heat Detector 90 Degrees (MKII-CB/D Base and MKII-CB Base) Note: 1. Meets the requirements of EN 54-5:2000 at Class CS	330q/05
MKII-HF/CS90	Fyreye MKII Conventional Fixed Heat Detector 90 Degrees (MKII-CB/D Base and MKII-CB Base) Note: 1. Meets the requirements of EN 54-5:2000 at Class CS	330q/06

Bases:
80-050 FE CB Common mounting base
80-052 FE DB Diode mounting base
80-054 FE RB Relay mounting base
80-080 FEA RB Addressable relay mounting base
80-090 FE IB Negative switching isolating base
FE-CB/D deep base
FE-CB/S shallow base
FE-CB standard base
MKII-CB/D Deep base
MKII-CB Shallow base
A copy of the certificate, confirming the full scope of approval including notes relating to the superscript references in the above table, may be viewed online by clicking on the product name in the associated entry on www.RedBookLive.com

Certificate No: 330p to EN54-5: 2000 + A1: 2002, EN54-7: 2000 + A1: 2002 + A2: 2006, CEA 4021: 2003

Multi-Sensor/Multi-Criteria Detectors

Certificated Products		LPCB Ref. No.
MKII-OH	Fyreye II Conventional optical and heat detector (FE-CB/D base, FE-CB/S base and FE-CB base) Note: 1. Meets the requirements of EN 54-7:2000 at Smoke Sensitivity setting	330p/01

Certificated Products		LPCB Ref. No.
	Range:0.08%dB~ 0.12%dB 2. Meets the requirements of EN 54-5:2000 at Class A2	
MKII-AOH	Fyreye II Addressable optical and heat detector MKII-CB/D base and MKII-CB base) Notes: 1) Meets the requirements of EN 54-7:2000 at Smoke Sensitivity setting Range:0.09%dB~ 0.12%dB 2) Meets the requirements of EN 54-5:2000 at Class A1	330p/02

Bases
FE-CB/D deep base
FE-CB/S shallow base
FE-CB standard base
A copy of the certificate, confirming the full scope of approval including notes relating to the superscript references in the above table, may be viewed online by clicking on the product name in the associated entry on www.RedBookLive.com

---

Zhongshan Guta Fire Equipment Technology Co., Ltd

4/F 10# Xingye Road,, Huojo District, Zhongshan City, Guangdong 528400, China
Tel: 8613828765759
E-mail: strongwang@asenware.com • Website: www.guta-fire.com

Certificate No: 1395a to EN 54-7:2018

Certificated Products		LPCB Ref. No.
AW-CSD381	Conventional Photo-electronic Smoke Detector (AW-BS01) *Meets the requirements of EN 54-7 for 1 sensitivity setting*	1395a/01

Base
AW-BS01
A copy of the certificate, confirming the full scope of approval including notes relating to the superscript references in the above table, may be viewed online by clicking on the product name in the associated entry on www.RedBookLive.com

Certificate No: 1395b to EN 54-5: 2017+ A1: 2018

Certificated Products		LPCB Ref. No.
AW-CTD382	Conventional Rate of Rise Heat Detector *Notes:* *Meets the requirements of EN 54-5 for Category A2R*	1395b/01

AW-BS01 - base
A copy of the certificate, confirming the full scope of approval including notes relating to the superscript references in the above table, may be viewed online by clicking on the product name in the associated entry on www.RedBookLive.com

Certificate No: 1330a-(cl-7) to EN 54-12: 2015

Certificated Products		LPCB Ref. No.
AW-BK901	Conventional Reflective Beam Detector (Asenware) *Notes:* *1. Meets the requirements of EN 54-12: 2015 at the following sensitivity settings:* *- Level 1: 2.6 dB High sensitivity* *- Level 2: 3.8 dB Medium sensitivity* *- Level 3: 5.8 dB Low sensitivity* *2. Suitable for use at the following separation ranges:* *- Span 1: 8 to 20 meters Short Path (1 x mirror reflector required)* *- Span 2: 20 to 40 meters Short Path (1 x mirror reflector required)* *- Span 3: 40 to 70 meters Normal Path (4 x mirror reflector required)* *- Span 4: 70 to 100 meters Long Path (4 x mirror reflector required)*	1330a/01

Mounting Bracket
AW-BK901-R 1 x Mirror Reflector

AW-BK901-R 4 x Mirror Reflector

A copy of the certificate, confirming the full scope of approval including notes relating to the superscript references in the above table, may be viewed online by clicking on the product name in the associated entry on www.RedBookLive.com

Statistics show that Government initiatives, which have increased the amount of self-contained smoke alarms fitted in domestic dwellings, have had a significant impact in reducing the amount of deaths and injuries caused by fire in the UK.

In Section 1: Fire detection and fire alarm systems of the Building Regulations 2010, Document B1 Fire Safety in Dwellings it states that "All new dwelling houses shall be provided with a fire detection and fire alarm system in accordance with the relevant recommendations of BS 5839-6 to at least a Grade D, Category LD3 standard"

BS 5839-6 Grade D requires a system of one or more mains-powered smoke alarms each with an integral standby supply (i.e. battery back-up). The system may in addition incorporate one or more mains powered heat alarms, each with an integral standby supply.

LPCB's list of approved products in this section is intended to help you select equipment that complies with these regulatory requirements. The initial approval and continued approval processes of these types of detectors are outlined in scheme document SD078.

Products listed in this section have been approved to:

- BS 5446-2 *Fire detection and fire alarm devices for dwellings Part 2 Specification for heat alarms*
- EN 14604 *Smoke alarm devices*
- EN 50291-1 *Electrical apparatus for the detection of Carbon monoxide in domestic premises - Test method and performance requirements*
- EN 50291-2 *Electrical apparatus for the detection of Carbon monoxide in domestic premises - Part 2: Electrical apparatus for continuous operation in a fixed installation in recreational vehicles and similar premises including recreational craft-Additional test method and performance requirements.*

For domestic applications, care needs to be taken over the correct choice of the type of detector, its siting and the condition of batteries in order to maintain the alarm in accordance with the manufacturer's requirements.

Further guidance is available from LPCB if required.

Audit:
Regular product auditing and regular factory inspections are carried out by LPCB ensuring high manufacturing standards and continued compliance with the applicable product standard.

---

4 Fire International ApS

Sadelmagervej 27, Vejle DK7100, Denmark
Tel: +4520445168
E-mail: info@4fire-int.com • Website: www.4fire-int.com

Certificate No: 1275c-(cl-1) to EN 14604:2005/AC:2008

Smoke Alarms

Certificated Products		**LPCB Ref. No.**
SMD18-01	Ten Year Battery Operated Photoelectric Domestic Smoke Alarm Notes: 1. This smoke alarm uses a non-replaceable battery 2. Battery types approved with this domestic smoke alarm - Pairdeer Lithium CR123A 3V - HCB Primary Lithium CR17355/CR123A - Energizer123 (EL123AP) - EVE CR123A	1275c/01

A copy of the certificate, confirming the full scope of approval including notes relating to the superscript references in the above table, may be viewed online by clicking on the product name in the associated entry on www.RedBookLive.com

Al Tahadi Security And Safety Equipment Trading

PO Box 45668, Ind. Area 11, Sharjah, United Arab Emirates
Tel: +971 5 0868 4543 • Fax: +971 6535 9220
E-mail: Sharqawi61@yahoo.com • Website: www.tahadi-fire.com

Certificate No: 506f-(cl-1) to EN 14604:2005

Certificated Products		LPCB Ref. No.
OM-BS9	Single Station Smoke Detector	506f/01

A copy of the certificate, confirming the full scope of approval including notes relating to the superscript references in the above table, may be viewed online by clicking on the product name in the associated entry on www.RedBookLive.com

Certificate No: 1529a-(cl-1) to EN 14604:2005

Certificated Products		LPCB Ref. No.
205-004	Omex Smoke Alarm, Battery Operated 3V, Non-Replaceable 10 Year Lithium Battery Notes: 1.This smoke alarm uses a non-replaceable battery 2.Battery types approved with this domestic smoke alarm - Lithium Huiderui CR123A	1529a/03
205-005	Omex Smoke Alarm, 3V, User Replaceable Lithium Battery, Wireless Interconnect Notes: 1.This smoke alarm uses a replaceable battery 2.Battery types approved with this domestic smoke alarm - Lithium Huiderui CR123A	1529a/04
205-015	Smoke Alarm, Battery Operated 3V, Non-Replaceable 10-year Lithium Battery, Wireless Interconnect Notes: 1.This smoke alarm uses a non-replaceable battery 2.Battery types approved with this domestic smoke alarm - Lithium Huiderui CR17450	1529a/06

A copy of the certificate, confirming the full scope of approval including notes relating to the superscript references in the above table, may be viewed online by clicking on the product name in the associated entry on www.RedBookLive.com

Ambest Electronics (Ningbo) Co Ltd T/A Numens

55 Yunhui Road, Yingzhou District, Ningbo, Zhejiang 315137, China
Tel: +86 574 82817218
E-mail: allen.cheng@numens.com

Certificate No: 1529a to EN 14604:2005

Certificated Products		LPCB Ref. No.
205-001	Battery Operated 3V, Non-Replaceable 10 Year Lithium Battery Smoke Alarm Notes: 1. This smoke alarm uses a non-replaceable battery 2. Battery types approved with this domestic smoke alarm - Lithium Huiderui CR123A	1529a/01
205-002	Smoke Alarm, 3V, User Replaceable Lithium Batterym Wireless Interconnect Notes: 1. This smoke alarm uses a replaceable battery 2. Battery types approved with this domestic smoke alarm - Lithium Huiderui CR123A	1529a/02
205-004	Battery Operated 3V, Non-Replaceable 10 Year Lithium Battery Smoke Alarm Notes: 1. This smoke alarm uses a non-replaceable battery 2. Battery types approved with this domestic smoke alarm - Lithium Huiderui CR123A	1529a/03
205-005	Smoke Alarm, 3V, User Replaceable Lithium Battery, Wireless Interconnect	1529a/04

Certificated Products		LPCB Ref. No.
	Notes: 1. This smoke alarm uses a replaceable battery 2. Battery types approved with this domestic smoke alarm - Lithium Huiderui CR123A	
205-014	Smoke Alarm, Battery Operated 3V, Non-Replaceable 10-year Lithium Battery, Wireless Interconnect Notes: 1.This smoke alarm uses a non-replaceable battery 2.Battery types approved with this domestic smoke alarm - Lithium Huiderui CR17450	1529a/05
205-015	Smoke Alarm, Battery Operated 3V, Non-Replaceable 10-year Lithium Battery, Wireless Interconnect Notes: 1.This smoke alarm uses a non-replaceable battery 2.Battery types approved with this domestic smoke alarm - Lithium Huiderui CR17450	1529a/06

A copy of the certificate, confirming the full scope of approval including notes relating to the superscript references in the above table, may be viewed online by clicking on the product name in the associated entry on www.RedBookLive.com

---

Demco Industries Sdn. Bhd.

Lot 3928, Jalan Keretapi Lama, Off Jalan Kapar 5 ½ Miles, Klang, Selangor Darul Ehsan 42100, Malaysia
Tel: +60 3 3290 3333 • Fax: +60 3 3290 2288
E-mail: sales@demcoalarm.com • Website: www.demcoalarm.com

Certificate No: 1471a-(cl-2) to EN 14604: 2005/ AC:2008

Certificated Products		LPCB Ref. No.
D-243-4	Battery Operated Photoelectric Smoke Alarm (Replaceable Battery) *Notes:* *1. Battery types approved with this domestic smoke alarm:* *(a). 6F22 - 9V (Carbon-Zinc) Foshan Zhaoneng Battery Industrial Co.Ltd* *(b). 6LR61 - 9V (Alkaline) Foshan Zhaoneng Battery Industrial Co.Ltd* *(c). 6F22 - 9V (Carbon-Zinc) Zhongyin (Ningbo) Battery Co. Ltd* *(d). 6LR61 – 9V (Alkaline) Zhongyin (Ningbo) Battery Co. Ltd* *(e). 522 – 9V (Alkaline) Energizer Holdings* *(f). MN1604 – 9V (Alkaline) Duracell Incorporation* *(g). GP1604A – 9V (Alkaline) Gold Peak Industries(Holdings) Ltd.* *(h). PP1604E – 9V (Carbon-Zinc) Gold Peak Industries (Holdings) Ltd* *(i) . RayMax 6LR61 Zhejiang Mustang Battery Co., Ltd*	1471a/01
D-243-5	Battery Operated Photoelectric Smoke Alarm (Replaceable Battery) *Notes:* *1. Battery types approved with this domestic smoke alarm:* *(a). 6F22 - 9V (Carbon-Zinc) Foshan Zhaoneng Battery Industrial Co.Ltd* *(b). 6LR61 - 9V (Alkaline) Foshan Zhaoneng Battery Industrial Co.Ltd* *(c). 6F22 - 9V (Carbon-Zinc) Zhongyin (Ningbo) Battery Co. Ltd* *(d). 6LR61 – 9V (Alkaline) Zhongyin (Ningbo) Battery Co. Ltd* *(e). 522 – 9V (Alkaline) Energizer Holdings* *(f). MN1604 – 9V (Alkaline) Duracell Incorporation* *(g). GP1604A – 9V (Alkaline) Gold Peak Industries(Holdings) Ltd.* *(h). PP1604E – 9V (Carbon-Zinc) Gold Peak Industries (Holdings) Ltd* *(i) . RayMax 6LR61 Zhejiang Mustang Battery Co., Ltd*	1471a/02
D-243-6	Battery Operated Photoelectric Smoke Alarm (Replaceable Battery) *Notes:* *1. Battery types approved with this domestic smoke alarm:* *(a). 6F22 - 9V (Carbon-Zinc) Foshan Zhaoneng Battery Industrial Co.Ltd* *(b). 6LR61 - 9V (Alkaline) Foshan Zhaoneng Battery Industrial Co.Ltd* *(c). 6F22 - 9V (Carbon-Zinc) Zhongyin (Ningbo) Battery Co. Ltd* *(d). 6LR61 – 9V (Alkaline) Zhongyin (Ningbo) Battery Co. Ltd* *(e). 522 – 9V (Alkaline) Energizer Holdings* *(f). MN1604 – 9V (Alkaline) Duracell Incorporation* *(g). GP1604A – 9V (Alkaline) Gold Peak Industries(Holdings) Ltd.* *(h). PP1604E – 9V (Carbon-Zinc) Gold Peak Industries(Holdings) Ltd*	1471a/03

Certificated Products			LPCB Ref. No.
(i) .	*RayMax 6LR61*	*Zhejiang Mustang Battery Co., Ltd*	

A copy of the certificate, confirming the full scope of approval including notes relating to the superscript references in the above table, may be viewed online by clicking on the product name in the associated entry on www.RedBookLive.com

Digital Security Controls, a Division of Tyco Safety Products Canada Ltd

3301 Langstaff Road, Concord, ON L4K 4L2, Canada
Tel: (001) 905 760 3000 • Fax: (001) 905 760 3020
E-mail: dnita@tycoint.com • Website: www.dsc.com

Certificate No: 1018b to EN 50291-1:2010 + A1:2012

Certificated Products		LPCB Ref. No.
DSC PG4913	Type A Battery Operated, Wireless, Carbon Monoxide Alarm Notes: 1. Battery type approved with this Carbon Monoxide alarm - Alkaline battery, 9V Energizer Alkaline #552 2. The wireless functionality is not included within the scope of the approval. 3. Only approved for use in EN mode.	1018b/01
DSC PG8913	Type A Battery Operated, Wireless, Carbon Monoxide Alarm Notes: 1. Battery type approved with this Carbon Monoxide alarm - Alkaline battery, 9V Energizer Alkaline #552 2. The wireless functionality is not included within the scope of the approval. 3. Only approved for use in EN mode.	1018b/02

A copy of the certificate, confirming the full scope of approval including notes relating to the superscript references in the above table, may be viewed online by clicking on the product name in the associated entry on www.RedBookLive.com

FireAngel Safety Technology Ltd

Vanguard Centre, Sir William Lyons Road, Coventry CV4 7EZ, United Kingdom
Tel: +44 (0)2476 323232 • Fax: +44 (0)2476 693610
E-mail: Info@fireangeltech.com • Website: www.fireangeltech.com

Certificate No: 651d to EN 14604:2005/AC:2008

Smoke Alarms

Certificated Products		LPCB Ref. No.
ST-630-XX	FireAngel Thermoptek Battery Operated Thermally Enhanced Photoelectric Smoke Alarm *Note:* *1. Battery types approved with this smoke alarm:* • *CR17335/T1 (EVE)* • *CR123AP-Tag (Hao Cheng)* • *Panasonic 3V CR-2/3AZ*	651d/11
WST- 630-XX	FireAngel Thermoptek Battery Operated Thermally Enhanced Photoelectric Smoke Alarm - with RF Transceiver Module *Notes:* *1. The RF transmitter module is not covered within the scope of this approval* *2. Battery types approved with this smoke alarm:* *- CR17335/T1 for alarm (EVE)* *- CR123AP-Tag for alarm (Hao Cheng)* *- Panasonic 3V CR-2/3AZ for alarm only*	651d/12
WST-AE630-XX	AngelEye Thermoptek Battery Operated Thermally Enhanced Photoelectric Smoke Alarm - with RF Transceiver Module *Notes:* *1. The RF transmitter module is not covered within the scope of this approval* *2. Battery types approved with this smoke alarm:*	651d/12

Certificated Products		LPCB Ref. No.
	- *CR17335/T1 for alarm (EVE)* - *CR123AP-Tag for alarm (Hao Cheng)* - *Panasonic 3V CR-2/3AZ for alarm only*	
ST-632	FireAngel Thermoptek Battery Operated Thermally Enhanced Photoelectric Smoke Alarm Note: 1. Battery types approved with this smoke alarm: - CR17335/T1 (EVE) - CR123AP-Tag (Hao Cheng) - Panasonic 3V CR-2/3AZ	651d/13
ST-632-DE	FireAngel Thermoptek Battery Operated Thermally Enhanced Photoelectric Smoke Alarm Note: 1. Battery types approved with this smoke alarm: - CR17335/T1 (EVE) - CR123AP-Tag (Hao Cheng) - Panasonic 3V CR-2/3AZ	651d/13

Additional Information

XXX, denotes Country and Language variants

Suffix	Description
Blank	UK variant
DE	Germany variant
FR	France variant
NO	Norway variant
NL	Netherlands variant
FI	Finland variant
ES	Spain variant
BE	Belgium variant
SE	Sweden variant
AT	Austria variant
IT	Italy variant
DK	Denmark variant
EU	Generic European variant
BNL	Dual-language variant for Belgium and the Netherlands (Dutch and French language)
NEU	Northern Europe variant
SEU	Southern Europe variant
CEU	Central Europe variant
EEU	Eastern Europe variant
INT	International variant
PL	Poland variant
SC	Scandinavia variant
T	Trade variant
R	Retail variant
P	Panasonic variant
V	VDS variant

A copy of the certificate, confirming the full scope of approval including notes relating to the superscript references in the above table, may be viewed online by clicking on the product name in the associated entry on www.RedBookLive.com

---

Frontier Safety Ltd UK

85 Great Portland Street, London, England W1W 7, United Kingdom
Tel: 00447708000050
E-mail: mikefrontiersafety@gmail.com • Website: www.frontierpumps.com

Certificate No: 1529a-(cl-2) to EN 14604:2005

Smoke Alarms

Certificated Products		LPCB Ref. No.
FRN 205-01	Smoke Alarm, Battery Operated 3V, Non-Replaceable 10 Year Lithium Battery Notes: 1.This smoke alarm uses a non-replaceable battery 2.Battery types approved with this domestic smoke alarm	1529a/01

Certificated Products		LPCB Ref. No.
	- Lithium Huiderui CR123A	
FRN 205-02	Smoke Alarm, 3V, User Replaceable Lithium Battery, Wireless Interconnect Notes: 1.This smoke alarm uses a replaceable battery 2.Battery types approved with this domestic smoke alarm - Lithium Huiderui CR123A	1529a/02
FRN 205-04	Smoke Alarm, Battery Operated 3V, Non-Replaceable 10 Year Lithium Battery Notes: 1.This smoke alarm uses a non-replaceable battery 2.Battery types approved with this domestic smoke alarm - Lithium Huiderui CR123A	1529a/03
FRN 205-05	Smoke Alarm, 3V, User Replaceable Lithium Battery, Wireless Interconnect Notes: 1.This smoke alarm uses a replaceable battery 2.Battery types approved with this domestic smoke alarm - Lithium Huiderui CR123A	1529a/04

A copy of the certificate, confirming the full scope of approval including notes relating to the superscript references in the above table, may be viewed online by clicking on the product name in the associated entry on www.RedBookLive.com

---

Guangdong Isafenest Co., Ltd

Rm402, Building 7, Tianfulai II, No 37 Changbao West Road,, Ronggui, Shunde, Foshan City, Guangdong 528305, China
Tel: +86-757-29382335 • Fax: 0757-29293200
E-mail: scarlett.shun@letmesmarthome.com

Certificate No: 1471a to EN 14604:2005/AC:2008

Domestic Alarms

Certificated Products		LPCB Ref. No.
LZ-1901	Battery Operated Photoelectric Smoke Alarm (Replaceable Battery) *Notes:* *1. Battery types approved with this domestic smoke alarm:* *(a). 6F22 - 9V (Carbon-Zinc) Foshan Zhaoneng Battery Industrial Co.Ltd* *(b). 6LR61 - 9V (Alkaline) Foshan Zhaoneng Battery Industrial Co.Ltd* *(c). 6F22 - 9V (Carbon-Zinc) Zhongyin (Ningbo) Battery Co. Ltd* *(d). 6LR61 - 9V (Alkaline) Zhongyin (Ningbo) Battery Co. Ltd* *(e). 522 - 9V (Alkaline) Energizer Holdings* *(f). MN1604 - 9V (Alkaline) Duracell Incorporation* *(g). GP1604A - 9V (Alkaline) Gold Peak Industries(Holdings) Ltd.* *(h). PP1604E - 9V (Carbon-Zinc) Gold Peak Industries (Holdings) Ltd* *(i) . RayMax 6LR61 Zhejiang Mustang Battery Co., Ltd*	1471a/01
LZ-1902	Battery Operated Photoelectric Smoke Alarm (Replaceable Battery) *Notes:* *1. Battery types approved with this domestic smoke alarm:* *(a). 6F22 - 9V (Carbon-Zinc) Foshan Zhaoneng Battery Industrial Co.Ltd* *(b). 6LR61 - 9V (Alkaline) Foshan Zhaoneng Battery Industrial Co.Ltd* *(c). 6F22 - 9V (Carbon-Zinc) Zhongyin (Ningbo) Battery Co. Ltd* *(d). 6LR61 – 9V (Alkaline) Zhongyin (Ningbo) Battery Co. Ltd* *(e). 522 – 9V (Alkaline) Energizer Holdings* *(f). MN1604 – 9V (Alkaline) Duracell Incorporation* *(g). GP1604A – 9V (Alkaline) Gold Peak Industries(Holdings) Ltd.* *(h). PP1604E – 9V (Carbon-Zinc) Gold Peak Industries (Holdings) Ltd* *(i) . RayMax 6LR61 Zhejiang Mustang Battery Co., Ltd*	1471a/02
LZ-1903	Battery Operated Photoelectric Smoke Alarm (Replaceable Battery) *Notes:* *1. Battery types approved with this domestic smoke alarm:* *(a). 6F22 - 9V (Carbon-Zinc) Foshan Zhaoneng Battery Industrial Co.Ltd* *(b). 6LR61 - 9V (Alkaline) Foshan Zhaoneng Battery Industrial Co.Ltd* *(c). 6F22 - 9V (Carbon-Zinc) Zhongyin (Ningbo) Battery Co. Ltd* *(d). 6LR61 – 9V (Alkaline) Zhongyin (Ningbo) Battery Co. Ltd* *(e). 522 – 9V (Alkaline) Energizer Holdings* *(f). MN1604 – 9V (Alkaline) Duracell Incorporation*	1471a/03

Certificated Products		LPCB Ref. No.
	(g). GP1604A – 9V (Alkaline) Gold Peak Industries(Holdings) Ltd. *(h). PP1604E – 9V (Carbon-Zinc) Gold Peak Industries(Holdings) Ltd* *(i) . RayMax 6LR61 Zhejiang Mustang Battery Co., Ltd*	
LZ-1921	Battery Operated Photoelectric Smoke Alarm (10 Year Irreplaceable Battery) *Notes:* *1. Battery types approved with this domestic smoke alarm:* *(a). CR123A -3V, (1500mAh- Lithium-Manganese Dioxide) By Guangzhou Great Power Energy & Technology Co.Ltd.* *(b). CR123A -3V, (1500mAh- Pairdeer Lithium-Manganese Dioxide) By Zhongyin (Ningbo) Battery Co., Ltd.*	1471a/04
LZ-1922	Battery Operated Photoelectric Smoke Alarm (10 Year Irreplaceable Battery) *Notes:* *1. Battery types approved with this domestic smoke alarm:* *(a). CR123A -3V, (1500mAh- Lithium-Manganese Dioxide) By Guangzhou Great Power Energy & Technology Co. Ltd.* *(b). CR123A -3V, (1500mAh- Pairdeer Lithium-Manganese Dioxide) By Zhongyin (Ningbo) Battery Co., Ltd.*	1471a/05
LZ-1923	Mains Powered Optical Smoke Detector with 10-Year Non-Replaceable Lithium Cell Battery Back Up (Standard Mounting Base) Notes: 1. Battery types approved with this domestic smoke alarm: (a). CR123A GP 3V Lithium Battery (10 Years) By Guangzhou Great Power Energy & Technology Co.Ltd (b). CR123A Huiderui 3V Lithium-Manganese Dioxide Battery (10 Years) By Huizhou Huiderui Lithium Battery Technology Co., Ltd. 2. The radio link functionality is not included within the scope of approval	1471a/06
LZ-1908	230V AC Mains Powered Optical Smoke Alarm with 9V Replaceable Battery Back-up *Notes:* *1. Battery types approved with this domestic smoke alarm:* *(a). MN1604 - 9V (Alkaline) Duracell Incorporation* *(b). GP1604A - 9V (Alkaline) Gold Peak Industries(Holdings) Ltd* *(c). GP1604E - 9V (Alkaline) Gold Peak Industries(Holdings) Ltd* *(d). RayMax 6LR61 Zhejiang Mustang Battery Co., Ltd*	1471a/07
LZ-1909	9V Replaceable Battery Operated Optical Smoke Alarm *Notes:* *1. Battery types approved with this domestic smoke alarm:* *(a). MN1604 - 9V (Alkaline) Duracell Incorporation* *(b). GP1604A - 9V (Alkaline) Gold Peak Industries(Holdings) Ltd* *(c). GP1604E - 9V (Alkaline) Gold Peak Industries(Holdings) Ltd* *(d). RayMax 6LR61 Zhejiang Mustang Battery Co., Ltd*	1471a/08

Base:
Standard Mounting Base
A copy of the certificate, confirming the full scope of approval including notes relating to the superscript references in the above table, may be viewed online by clicking on the product name in the associated entry on www.RedBookLive.com

Certificate No: 1471c to BS 5446-2:2003

domestic alarms

Certificated Products		LPCB Ref. No.
LZ-7601	Mains Powered Heat Smoke Detector with 10-Year Non-Replaceable Lithium Cell Battery Back Up (Standard Mounting Base) Notes: 1. Meets the requirements of BS 5446-2 for Class A2 2. Battery types approved with this domestic heat alarm: (a). CR123A GP 3V Lithium Battery (10 Years) By Guangzhou Great Power Energy & Technology Co.Ltd (b). CR123A Huiderui 3V Lithium-Manganese Dioxide Battery (10 Years) By Huizhou Huiderui Lithium Battery Technology Co., Ltd.	1471c/01

Certificated Products		LPCB Ref. No.
	3. The radio link functionality is not included within the scope of approval	
LZ-7603	Heat Detector with 9V replaceable battery *Notes:* *1. Meets the requirements of BS 5446-2 for Class A2* *2. Battery types approved with this domestic heat alarm:* *(a). 9V Duracell MN 1604* *(b). 9V GP 1604A* *(c). 9V GP 1604E* *(d). 9V RayMax 6LR61*	1471c/02
LZ-7605	230V AC mains powered heat detector with 9V Replaceable Battery Back-up *Notes:* *1. Meets the requirements of BS 5446-2 for Class A2* *2. Battery types approved with this domestic heat alarm:* *(a). 9V Duracell MN 1604* *(b). 9V GP 1604A* *(c). 9V GP 1604E* *(d). 9V RayMax 6LR61*	1471c/03

Base:
Standard Mounting Base
A copy of the certificate, confirming the full scope of approval including notes relating to the superscript references in the above table, may be viewed online by clicking on the product name in the associated entry on www.RedBookLive.com

Certificate No: 1471b to EN 14604:2005/AC:2008, BS 5446-2:2003

Certificated Products		LPCB Ref. No.
LZ-6911	Mains Powered Multi (Smoke and Heat) Detector with 10-Year Non-Replaceable Lithium Cell Battery Back Up (Standard Mounting Base) Notes: 1. Meets the requirements of BS 5446-2 for Class A2 2. Battery types approved with this domestic smoke and heat alarm: (a). CR123A GP 3V Lithium Battery (10 Years) By Guangzhou Great Power Energy & Technology Co.Ltd (b). CR123A Huiderui 3V Lithium-Manganese Dioxide Battery (10 Years) By Huizhou Huiderui Lithium Battery Technology Co., Ltd. 3. The radio link functionality is not included within the scope of approval	1471b/01

Base

Standard Mounting Base

A copy of the certificate, confirming the full scope of approval including notes relating to the superscript references in the above table, may be viewed online by clicking on the product name in the associated entry on www.RedBookLive.com

---

Horing LIH Industrial Co Ltd

No. 35, Er-Hu Road, Hu-Hsi Village, Yuan-Shan Hsiang, Yilan Hsien 264, Taiwan ROC
Tel: +886 2 22487599 • Fax: +886 2 22407752

Certificate No: 506f to EN 14604:2005

Certificated Products		LPCB Ref. No.
NQ9S	Single Station Smoke Detector	506f/01

A copy of the certificate, confirming the full scope of approval including notes relating to the superscript references in the above table, may be viewed online by clicking on the product name in the associated entry on www.RedBookLive.com

IKEA of Sweden AB

Tulpänvagen 8, Box 702, Älmhult SE 34381, Sweden
Tel: +46 476 81000
E-mail: sipp@ikea.com • Website: WWW.IKEA.COM

Certificate No: 1159a-(cl-2) to EN 14604:2005/AC:2008

Domestic Alarms - Smoke, heat and carbon monoxide

Certificated Products		LPCB Ref. No.
EK3060	9V Battery Operated Photoelectric Smoke Alarm with Alarm Silence Feature (Standard base) *Notes:* *1)This smoke alarm uses replaceable DC 9V Batteries:* *a) Carbon Zinc Batteries by; Gold Peak: GP1604P & GN1604G Golden Power: G6F22 & G6F22Mb) Alkaline Battery by; Gold Peak:GN1604A IKEA 6LR61*	1159a/02

Bases:
Standard base
A copy of the certificate, confirming the full scope of approval including notes relating to the superscript references in the above table, may be viewed online by clicking on the product name in the associated entry on www.RedBookLive.com

Certificate No: 1463a-(cl-2) to EN 14604:2005/AC:2008

Certificated Products		LPCB Ref. No.
EK3060	9V Battery Operated Photoelectric Smoke Alarm with alarm silence feature (Standard base) *Notes:* *1)This smoke alarm uses replaceable DC 9V Batteries:* *a) Carbon Zinc Batteries by; Gold Peak: GP1604P & GN1604G Golden Power: G6F22 & G6F22Mb) Alkaline Battery by; Gold Peak:GN1604A IKEA 6LR61*	1463a/02

A copy of the certificate, confirming the full scope of approval including notes relating to the superscript references in the above table, may be viewed online by clicking on the product name in the associated entry on www.RedBookLive.com

Ningbo Kingdun Electronic Industry Co Ltd

No 28 Fengyuan Road, South of Economic Development Area, Yuyao City, Zhejiang Province 315400, China
Tel: 86-13245660018
E-mail: eric@kingdun.com

Certificate No: 1275a to EN 14604:2005/AC:2008

Certificated Products		LPCB Ref. No.
LM-107A	Ten Year Battery Operated Photoelectric Domestic Smoke Alarm *Notes:* *1. This smoke alarm uses a non-replaceable battery* *2. Battery types approved with this domestic smoke alarm* *- Pairdeer Lithium CR123A 3V* *- HCB Primary Lithium CR17355/CR123A* *- Energizer123 (EL123AP)* *- EVE CR123A*	1275a/01
LM-107B	Ten Year Battery Operated Photoelectric Domestic Smoke Alarm *Notes:* *1. This smoke alarm uses a non-replaceable battery*	1275a/02

Certificated Products		LPCB Ref. No.
	2. Battery types approved with this domestic smoke alarm *- Pairdeer Lithium CR123A 3V* *- HCB Primary Lithium CR17355/CR123A* *- Energizer123 (EL123AP)* *- EVE CR123A*	
LM-107C	Ten Year Battery Operated Photoelectric Domestic Smoke Alarm *Notes:* *1. This smoke alarm uses a non-replaceable battery* *2. Battery types approved with this domestic smoke alarm* *- Pairdeer Lithium CR123A 3V* *- HCB Primary Lithium CR17355/CR123A* *- Energizer123 (EL123AP)* *- EVE CR123A*	1275a/03
LM-101LA	Battery Operated Domestic Smoke Alarm with RF Interlinkable Function (502003 mounting plate) *Notes:* *1. Battery types approved with this domestic smoke alarm* *- Pair Deer 9V 6F22* *- GP 9V 1604S* *- Mustang 9V 6F22* *- Pair Deer 9V 6LR61* *- GP 9V 1604A* *- Pair Deer 3 x 1.5V LR6/AA* *- GP 3 x 1.5V GP15AU* *- Mustang 3 x 1.5V LR6/AA* *2. The radio link functionality is not included within the scope of approval*	1275a/04
LM-101LB	Battery Operated Domestic Smoke Alarm with RF Interlinkable Function (502003 mounting plate) *Notes:* *1. Battery types approved with this domestic smoke alarm* *- Pair Deer 9V 6F22* *- GP 9V 1604S* *- Mustang 9V 6F22* *- Pair Deer 9V 6LR61* *- GP 9V 1604A* *- Pair Deer 3 x 1.5V LR6/AA* *- GP 3 x 1.5V GP15AU* *- Mustang 3 x 1.5V LR6/AA* *2. The radio link functionality is not included within the scope of approval*	1275a/05
LM-101LC	Battery Operated Domestic Smoke Alarm with RF Interlinkable Function (502003 mounting plate) *Notes:* *1. Battery types approved with this domestic smoke alarm* *- Pair Deer 9V 6F22* *- GP 9V 1604S* *- Mustang 9V 6F22* *- Pair Deer 9V 6LR61* *- GP 9V 1604A* *- Pair Deer 3 x 1.5V LR6/AA* *- GP 3 x 1.5V GP15AU* *- Mustang 3 x 1.5V LR6/AA* *2. The radio link functionality is not included within the scope of approval*	1275a/06
LM-101LD	Battery Operated Domestic Smoke Alarm with RF Interlinkable Function (502003 mounting plate) *Notes:* *1. Battery types approved with this domestic smoke alarm* *- Pair Deer 9V 6F22* *- GP 9V 1604S* *- Mustang 9V 6F22* *- Pair Deer 9V 6LR61* *- GP 9V 1604A* *- Pair Deer 3 x 1.5V LR6/AA* *- GP 3 x 1.5V GP15AU* *- Mustang 3 x 1.5V LR6/AA* *2. The radio link functionality is not included within the scope of approval*	1275a/07
LM-101LE	Battery Operated Domestic Smoke Alarm with RF Interlinkable Function (502003 mounting plate) *Notes:*	1275a/08

Certificated Products		LPCB Ref. No.
	1. Battery types approved with this domestic smoke alarm *- Pair Deer 9V 6F22* *- GP 9V 1604S* *- Mustang 9V 6F22* *- Pair Deer 9V 6LR61* *- GP 9V 1604A* *- Pair Deer 3 x 1.5V LR6/AA* *- GP 3 x 1.5V GP15AU* *- Mustang 3 x 1.5V LR6/AA* *2. The radio link functionality is not included within the scope of approval*	
LM-101LF	Battery Operated Domestic Smoke Alarm with RF Interlinkable Function (502003 mounting plate) *Notes:* *1. Battery types approved with this domestic smoke alarm* *- Pair Deer 9V 6F22* *- GP 9V 1604S* *- Mustang 9V 6F22* *- Pair Deer 9V 6LR61* *- GP 9V 1604A* *- Pair Deer 3 x 1.5V LR6/AA* *- GP 3 x 1.5V GP15AU* *- Mustang 3 x 1.5V LR6/AA* *2. The radio link functionality is not included within the scope of approval*	1275a/09
LM-109A	Battery Operated Photoelectric Smoke Alarm with 10 Years Life *Note:* *1. Battery type approved with this smoke alarm:* *- HCB Battery Co. Ltd CP952434, Li ion, 3Vdc*	1275a/10
LM-109B	Battery Operated Photoelectric Smoke Alarm with 10 Years Life *Note:* *1. Battery type approved with this smoke alarm:* *- HCB Battery Co. Ltd CP952434, Li ion, 3Vdc*	1275a/11
LM-109C	Battery Operated Photoelectric Smoke Alarm with 10 Years Life *Note:* *1. Battery type approved with this smoke alarm:* *- HCB Battery Co. Ltd CP952434, Li ion, 3Vdc*	1275a/12
LM-109D	Battery Operated Photoelectric Smoke Alarm with 10 Years Life *Note:* *1. Battery type approved with this smoke alarm:* *- HCB Battery Co. Ltd CP952434, Li ion, 3Vdc*	1275a/13
LM-109E	Battery Operated Photoelectric Smoke Alarm with 10 Years Life *Note:* *1. Battery type approved with this smoke alarm:* *- HCB Battery Co. Ltd CP952434, Li ion, 3Vdc*	1275a/14
LM-109F	Battery Operated Photoelectric Smoke Alarm with 10 Years Life *Note:* *1. Battery type approved with this smoke alarm:* *- HCB Battery Co. Ltd CP952434, Li ion, 3Vdc*	1275a/15
LM-109G	Battery Operated Photoelectric Smoke Alarm with 10 Years Life *Note:* *1. Battery type approved with this smoke alarm:* *- HCB Battery Co. Ltd CP952434, Li ion, 3Vdc*	1275a/16
LM-101LAW	Domestic Smoke Alarm with RF interlinkable function (Mounting Plate) Notes: 1. Battery types approved with this domestic smoke alarm • Pair Deer 9V 6F22 • GP 9V 1604S • Mustang 9V 6F22 • Pair Deer 9V 6LR61 • GP 9V 1604A • Pair Deer 3 x 1.5V LR6/AA • GP 3 x 1.5V GP15AU • Mustang 3 x 1.5V LR6/AA The radio link functionality is not included within the scope of approval	1275a/17
LM-101LG	Battery Operated Domestic Smoke Alarm with RF interlinkable function (Mounting Plate) Notes:	1275a/18

Certificated Products		LPCB Ref. No.
	1. Battery types approved with this domestic smoke alarm • Pair Deer 9V 6F22 • GP 9V 1604S • Mustang 9V 6F22 • Pair Deer 9V 6LR61 • GP 9V 1604A • Pair Deer 3 x 1.5V LR6/AA • GP 3 x 1.5V GP15AU • Mustang 3 x 1.5V LR6/AA • Fanso ER9V • Forte ER9V The radio link functionality is not included within the scope of approval	
KD-125A	Battery Operated Photoelectric Smoke Alarm with a 5 year Battery (502003 mounting plate) Note: 1. Battery types approved with this domestic smoke alarm - Pair Deer 2 x 1.5V LR03/AAA - Mustang Raymax 2 x 1.5V LR03 - Dukecell 2 x 1.5V LR03	1275a/19
KD-125B	Battery Operated Photoelectric Smoke Alarm with a 5 year Battery (502003 mounting plate) Note: 1. Battery types approved with this domestic smoke alarm - Pair Deer 2 x 1.5V LR03/AAA - Mustang Raymax 2 x 1.5V LR03 - Dukecell 2 x 1.5V LR03	1275a/20
KD-125C	Battery Operated Photoelectric Smoke Alarm with a 5 year Battery (502003 mounting plate) Note: 1. Battery types approved with this domestic smoke alarm - Pair Deer 2 x 1.5V LR03/AAA - Mustang Raymax 2 x 1.5V LR03 - Dukecell 2 x 1.5V LR03	1275a/21
KD-122LA	Wireless Interconnected Fire Detecting Smoke Alarm with a 10 Year Life (502003 Mounting Plate) Notes: 1. Battery types approved with this domestic smoke alarm - CP605050 3.0V 2. The radio link functionality is not included within the scope of approval	1275a/22
KD-122LC	Wireless Interconnected Fire Detecting Smoke Alarm with a 10 Year Life (502003 Mounting Plate) Notes: 1. Battery types approved with this domestic smoke alarm: - CP605050 3.0V 2. The radio link functionality is not included within the scope of approval	1275a/23
KD-122LE	Wireless Interconnected Fire Detecting Smoke Alarm (502003 mounting plate) Notes: 1. Battery types approved with this domestic smoke alarm • Pair Deer 2x1.5V LR03/AAA • Dukecell 2x1.5V LR03/AAA 2. The radio link functionality is not included within the scope of approval	1275a/24

Base:
502003 Mounting Plate

A copy of the certificate, confirming the full scope of approval including notes relating to the superscript references in the above table, may be viewed online by clicking on the product name in the associated entry on www.RedBookLive.com

Ningbo Sentek Electronics Co. Ltd

448 Yingchun Road, Wangchun Industrial Park, Ningbo City 315175, China
Tel: 0086-574-8715 5635
E-mail: service@sentek.cc • Website: http://www.sentek.cc/

Certificate No: 1050b to EN 14604:2005

Certificated Products		**LPCB Ref. No.**
SK-20	Domestic Smoke Alarm (Mounting Plate) *Notes:* *1. This smoke alarm uses a non-replaceable battery* *2. Battery types approved with this smoke alarm:* • *Energizer 3V Lithium EL123AP* • *EVE 3V Lithium CR17335* • *Huizhou Huiderui 3V Lithium CR123A/CR17345*	1050b/01
SK40	Battery Operated Domestic Smoke Alarm Notes: 1. This smoke alarm uses a replaceable 9V battery 2. Battery types approved with this smoke alarm: • Pairdeer 6F22 (Carbon Zinc battery) • Pairdeer 6LR61 (Alkaline battery) • Pairdeer CR-V9 (Lithium battery) • Duracell MN1604 (Alkaline battery) • Gold Peak 1604P & Gold Peak 1604A (Alkaline battery), • Gold Peak 1604S (Carbon Zinc battery) • Golden Power G6F22 (Carbon Zinc battery) • Golden Power GL6F22A (Alkaline battery) • Eveready 522 (Alkaline battery) • Eveready 216 (Carbon Zinc battery) • Eveready 1222 (Carbon Zinc battery)	1050b/02
SK50	Battery Operated Domestic Smoke Alarm Notes: 1. This smoke alarm uses a replaceable 9V battery 2. Battery types approved with this smoke alarm: • Pairdeer 6F22 (Carbon Zinc battery) • Pairdeer 6LR61 (Alkaline battery) • Pairdeer CR-V9 (Lithium battery) • Duracell MN1604 (Alkaline battery) • Gold Peak 1604P & Gold Peak 1604A (Alkaline battery), • Gold Peak 1604S (Carbon Zinc battery) • Golden Power G6F22 (Carbon Zinc battery) • Golden Power GL6F22A (Alkaline battery) • Eveready 522 (Alkaline battery) • Eveready 216 (Carbon Zinc battery) • Eveready 1222 (Carbon Zinc battery)	1050b/03

Ancillary
Mounting Plate

A copy of the certificate, confirming the full scope of approval including notes relating to the superscript references in the above table, may be viewed online by clicking on the product name in the associated entry on www.RedBookLive.com

REV Ritter GmbH

Frankenstrasse 1-4, Frankenstrasse 1-4
Mömbris, 63776, Germany
Tel: +49 6029 707 566
E-mail: marcus.huth@rev.de • Website: www.rev.de

Certificate No: 1050b-(cl-3) to EN 14604:2005

Certificated Products		LPCB Ref. No.
RWM-20	Domestic Smoke Alarm (Mounting Plate) *Notes:* *1. This smoke alarm uses a non-replaceable battery* *2. Battery types approved with this smoke alarm:* • *Energizer 3V Lithium EL123AP* • *EVE 3V Lithium CR17335* • *Huizhou Huiderui 3V Lithium CR123A/CR17345*	1050b/01

Ancillary
Mounting Plate

A copy of the certificate, confirming the full scope of approval including notes relating to the superscript references in the above table, may be viewed online by clicking on the product name in the associated entry on www.RedBookLive.com

Sentura Group Ltd. (including Fire Depot and Firechief Global)

Sentura House, 3 Lands End Way, Oakham, Rutland LE15 6RB, United Kingdom
Tel: +44 (0)330 999 22 33 • Fax: +44 (0)1572 770133
E-mail: sales@firedepot.co.uk • Website: www.firedepot.co.uk

Certificate No: 1471a-(cl-3) to EN 14604:2005/AC:2008

Certificated Products		LPCB Ref. No.
FBSD1	Battery Operated Photoelectric Smoke Alarm (Replaceable Battery) *Notes:* *1. Battery types approved with this domestic smoke alarm:* *(a). 6F22 - 9V (Carbon-Zinc) Foshan Zhaoneng Battery Industrial Co.Ltd* *(b). 6LR61 - 9V (Alkaline) Foshan Zhaoneng Battery Industrial Co.Ltd* *(c). 6F22 - 9V (Carbon-Zinc) Zhongyin (Ningbo) Battery Co. Ltd* *(d). 6LR61 - 9V (Alkaline) Zhongyin (Ningbo) Battery Co. Ltd* *(e). 522 - 9V (Alkaline) Energizer Holdings* *(f). MN1604 - 9V (Alkaline) Duracell Incorporation* *(g). GP1604A - 9V (Alkaline) Gold Peak Industries(Holdings) Ltd.* *(h). PP1604E - 9V (Carbon-Zinc) Gold Peak Industries (Holdings) Ltd* *(i) . RayMax 6LR61 Zhejiang Mustang Battery Co., Ltd*	1471a/02

Shanghai Huiying Industry Co Ltd

Room 1313, Tower A, 1088 New Jinqiao Road, 201206, Shanghai, China
Tel: +86 21 61681700 • Fax: +86 21 61681701
E-mail: sales@pike-fire.com • Website: www.pike-fire.com

Certificate No: 1275a-(cl-1) to EN 14604:2005/AC:2008

Smoke Alarm

Certificated Products		LPCB Ref. No.
DT-122LA	Wireless Interconnected Fire Detecting Smoke Alarm with a 10 Year Life (502003 Mounting Plate) Notes: 1. Battery types approved with this domestic smoke alarm - CP605050 3.0V 2. The radio link functionality is not included within the scope of approval	1275a/22

Bases:
502003 Mounting Plate
A copy of the certificate, confirming the full scope of approval including notes relating to the superscript references in the above table, may be viewed online by clicking on the product name in the associated entry on www.RedBookLive.com

---

Shenzhen Heiman Technology Co Ltd

No 84 Fuqian Road, Yuexingwei Community, Guanlan, Longhua New District, Shenzhen 518110, China
Tel: +86 75584193930 x8018 • Fax:
E-mail: office@heiman.com.cn

Certificate No: 1138b to EN 14604:2005/AC:2008

Certificated Products		LPCB Ref. No.
HM-625PHS	Ten Year Battery Operated Photoelectric Smoke Alarm *Notes:* *1. This smoke alarm uses a non-replaceable battery.* *2. The only battery type approved with this domestic smoke alarm is* *- CR17335 CR123A, 3V DC battery manufactured by HCB Battery Co Ltd*	1138b/01
HM-626PHS	Ten Year Battery Operated Photoelectric Smoke Alarm *Notes:* *1. This smoke alarm uses a non-replaceable battery.* *2. The only battery type approved with this domestic smoke alarm is* *- CR17335 CR123A, 3V DC battery manufactured by HCB Battery Co Ltd*	1138b/02

A copy of the certificate, confirming the full scope of approval including notes relating to the superscript references in the above table, may be viewed online by clicking on the product name in the associated entry on www.RedBookLive.com

---

Shenzhen HTI Sanjiang Electronics CO., Ltd

3/F., Guangcai Xintiandi Mansion, Nanshan Road, Nanshan District, Shenzhen, Guangdong 51804, China
Tel: +86 755 26521071
E-mail: shuxian.wei@fhsjdz.com

Certificate No: 1159a-(cl-3) to EN 14604:2005/AC:2008

Smoke Alarms

Certificated Products		LPCB Ref. No.
EK3060	9V Battery Operated Photoelectric Smoke Alarm with Alarm Silence Feature (Standard base) *Notes:* *1)This smoke alarm uses replaceable DC 9V Batteries:* *a) Carbon Zinc Batteries by; Gold Peak: GP1604P & GN1604G* *Golden Power: G6F22 & G6F22Mb) Alkaline Batteries by; Gold Peak:GN1604A* *IKEA 6LR61*	1159a/02

Standard Base

A copy of the certificate, confirming the full scope of approval including notes relating to the superscript references in the above table, may be viewed online by clicking on the product name in the associated entry on www.RedBookLive.com

Certificate No: 1463a-(cl-3) to EN 14604:2005/AC:2008

Certificated Products		LPCB Ref. No.
EK3060	9V Battery Operated Photoelectric Smoke Alarm with Alarm Silence Feature (Standard base) *Notes:* *1)This smoke alarm uses replaceable DC 9V Batteries:* *a) Carbon Zinc Batteries by; Gold Peak: GP1604P & GN1604G* *Golden Power: G6F22 & G6F22Mb) Alkaline Batteries by; Gold Peak:GN1604A* *IKEA 6LR61*	1463a/02

Standard Base

A copy of the certificate, confirming the full scope of approval including notes relating to the superscript references in the above table, may be viewed online by clicking on the product name in the associated entry on www.RedBookLive.com

---

Siterwell Electronics CO., Limited

No 666 Qingfeng Road, Jiangbei District, Ningbo, Zhejiang 315034, China
Tel: +31 657615907
E-mail: certificate001@china-siter.com • Website: www.china-siter.com

Certificate No: 1044a to EN 14604:2005/AC:2008

Certificated Products		LPCB Ref. No.
GS506	Battery Operated Photoelectric Smoke Alarm (Replaceable Battery) *1. Battery types approved with this domestic smoke alarm* *- Raymax: 6LR61* *- Duracell: 6LR61 or MN1604* *- Golite: G6F22 or 1604D* *- Forte: ER9V* *- Gold Peak: GP1604S* *- Golden Power: G6F22A or G6F22M or S006P* *- Lonlife: 6F22*	1044a/02
GS503	Battery Operated Photoelectric Smoke Alarm (Replaceable Battery) *Note:* *1. Battery types approved with this domestic smoke alarm* *- Raymax: 6LR61* *- Duracell: 6LR61 or MN1604* *- Golite: G6F22 or 1604D* *- Forte: ER9V* *- Gold Peak: GP1604S* *- Golden Power: G6F22A or G6F22M or S006P* *- Lonlife: 6F22*	1044a/03
GS506A	Battery Operated Photoelectric Smoke Alarm (Replaceable Battery) *Note:1. Identical to GS506 with silver coloured cover*	1044a/04
GS506H	Battery Operated Photoelectric Smoke Alarm (Replaceable Battery) *Note:1. Identical to GS506 with wood coloured cover*	1044a/05

A copy of the certificate, confirming the full scope of approval including notes relating to the superscript references in the above table, may be viewed online by clicking on the product name in the associated entry on www.RedBookLive.com

---

V-GREAT GLOBAL CORPORATION

Second Floor, Capital City, Independence Avenue, P O Box 1008, Victoria, Mahe, Seychelles
Tel: 008613581542023
E-mail: vgreatech@hotmail.com

Certificate No: 1275a-(cl-2) to EN 14604:2005/AC:2008

Smoke Alarms

Certificated Products		LPCB Ref. No.
VG-6622	Wireless Interconnected Fire Detecting Smoke Alarm with a 10 Year Life (502003 Mounting Plate) Notes: 1. Battery types approved with this domestic smoke alarm - CP605050 3.0V 2. The radio link functionality is not included within the scope of approval	1275a/22

Bases
502003 Mounting Plate

A copy of the certificate, confirming the full scope of approval including notes relating to the superscript references in the above table, may be viewed online by clicking on the product name in the associated entry on www.RedBookLive.com

---

Visonic

24 Habarzel Street, Tel Aviv 69710, Israel
Tel: +44 (0)870 7300810 • Fax: +44 (0)870 7300801
E-mail: zuri.rubin@jci.com • Website: www.visonic.com

Certificate No: 512j-(cl-1) to EN50291-1: 2010 + A1: 2012

Carbon Monoxide Alarms

Certificated Products		LPCB Ref. No.
GSD-442 PG2	Type A Battery Operated, Wireless, Carbon Monoxide Alarm Notes: 1. Battery types approved with this Carbon Monoxide alarm - Lithium battery, 9V Ultralife Lithium U9VL-J-P - Alkaline battery, 9V Energizer Alkaline #522 - Alkaline battery, 9V, Duracell MN1604 2. The wireless functionality is not included withing the scope of the approval 3. Only approved for use in EN mode	512j/01

A copy of the certificate, confirming the full scope of approval including notes relating to the superscript references in the above table, may be viewed online by clicking on the product name in the associated entry on www.RedBookLive.com

---

Wizmart Technology Inc.

Building B, No 88, Changyang Road, Jiangbei Investment Pioneering Park, Ningbo, Zhejiang 315033, China
Tel: +86-574-55003366
E-mail: rock@wizmart.cn • Website: http://wizmart.biz/

Certificate No: 1163d to BS 5446-2:2003

Combined Smoke and Carbon Monoxide alarms

Certificated Products		LPCB Ref. No.
NB840-H	AC-DC Domestic Heat Alarm Notes: 1. Class A2 approved only 2. Battery types approved with this domestic heat alarm: - EVE CR9V-P - GP 1604S - GP GN1604A - PAIRDEER 6F22 - PAIRDEER 6LR61	1163d/01

A copy of the certificate, confirming the full scope of approval including notes relating to the superscript references in the above table, may be viewed online by clicking on the product name in the associated entry on www.RedBookLive.com

Certificate No: 1163e to EN 14604:2005/AC:2008

Combined Smoke and Carbon Monoxide alarms

Certificated Products		LPCB Ref. No.
NB840-S	AC-DC Domestic Smoke Alarm Note: 1. Battery types approved with this domestic smoke alarm: - EVE CR9V-P - GP 1604S - GP GN1604A - PAIRDEER 6F22 - PAIRDEER 6LR61	1163e/01

A copy of the certificate, confirming the full scope of approval including notes relating to the superscript references in the above table, may be viewed online by clicking on the product name in the associated entry on www.RedBookLive.com

Certificate No: 1163f to EN 14604:2005/AC:2008 & BS 5446-2:2003

Combined Smoke and Carbon Monoxide alarms

Certificated Products		LPCB Ref. No.
NB840-SH	AC-DC Domestic Multi Alarm Notes: 1. Class A2 Approved Only 2. Battery types approved with this domestic multi alarm: - EVE CR9V-P - GP 1604S - GP GN1604A - PAIRDEER 6F22 - PAIRDEER 6LR61	1163f/01

A copy of the certificate, confirming the full scope of approval including notes relating to the superscript references in the above table, may be viewed online by clicking on the product name in the associated entry on www.RedBookLive.com

---

Zeta Alarms Limited

Detection House, 72-78 Morfa Road, Swansea SA1 2EN, United Kingdom
Tel: +44 (0)1792 455175 • Fax: +44 (0)1792 455176
E-mail: ghassan@zetaalarmsystems.com • Website: www.zetaalarmsystems.com

Certificate No: 330u to EN 14604:2005/AC:2008

Certificated Products		LPCB Ref. No.
ZT-MS	Smoke Alarm Device Note: 1. Battery types approved with this domestic heat alarm: - EVE CR9V-P - GP 1604S - GP GN1604A - PAIRDEER 6F22 - PAIRDEER 6LR61	330u/01

A copy of the certificate, confirming the full scope of approval including notes relating to the superscript references in the above table, may be viewed online by clicking on the product name in the associated entry on www.RedBookLive.com

Certificate No: 330t to BS 5446-2:2003

Heat Alarms

Certificated Products		LPCB Ref. No.
ZT-MH	Heat Alarm Device Notes: 1. Class A2 approved only	330t/01

Certificated Products		LPCB Ref. No.
	2. Battery types approved with this domestic heat alarm: - EVE CR9V-P - GP 1604S - GP GN1604A - PAIRDEER 6F22 - PAIRDEER 6LR61	

A copy of the certificate, confirming the full scope of approval including notes relating to the superscript references in the above table, may be viewed online by clicking on the product name in the associated entry on www.RedBookLive.com

Certificate No: 330v to EN 14604:2005/AC:2008 & BS 5446-2:2003

Combined Smoke and Carbon Monoxide alarms

Certificated Products		LPCB Ref. No.
ZT-MSH	Smoke and Heat Alarm Device Notes: 1. Class A2 Approved Only 2. Battery types approved with this domestic heat alarm: - EVE CR9V-P - GP 1604S - GP GN1604A - PAIRDEER 6F22 - PAIRDEER 6LR61	330v/01

A copy of the certificate, confirming the full scope of approval including notes relating to the superscript references in the above table, may be viewed online by clicking on the product name in the associated entry on www.RedBookLive.com

The purpose of a manual call point is to enable a person discovering a fire to initiate the operation of a fire alarm system so that appropriate measures can be taken. Therefore it is important for the manual call point to be recognizable and simple to use. For this reason, the European standard has attempted to standardise their appearance and function.

There are basically two types of manual call points which are related to the method of operation.
- Type A: direct operation (single action).
- Type B: indirect operation (double action).

Both types require the breaking or the visible displacement by change of position of a frangible element forming part of the front face.

Guidance on the selection, siting and speed of response should be sought from the applicable installation rule or code of practice (e.g. BS 5839-1). For example BS 5839-1 recommends only type A with a speed of evacuation signal within 3 seconds. Other codes of practice, may require a type B installation.

This section lists manual call points approved for use in fire detection and fire alarm systems in buildings. The initial approval and continued approval processes for manual call points are outlined in scheme document SD041.

Products listed in this section have been approved to:

- EN 54-11 *Manual call points*
- EN 54-25 *Components using radio links*
- ISO 7240-11 *Manual call points*

Audit:
Regular product auditing and regular factory inspections are carried out by LPCB ensuring high manufacturing standards and continued compliance with the applicable product standard.

Notes:
1. Since the LPCB uses national and international standards for the listing of products, in some instances the requirements of these standards may conflict with the recommendations of local codes of practice. We recommend that specifiers seek advice from the relevant local authorities and amend their specifications accordingly.

Adkinns Inc.

5063 Commercial Circle, Concord CA 94520, USA
Tel: +1 (650) 457 4580
Website: www.adkinns.com

Certificate No: 1426d-(cl-6) to EN 54-11:2001 + A1:2005

Certificated Products		LPCB Ref. No.
PYR-FA-CHA-MCP	Addressable Manual Call Point (Branded as Pyronics)	1426d/01

A copy of the certificate, confirming the full scope of approval including notes relating to the superscript references in the above table, may be viewed online by clicking on the product name in the associated entry on www.RedBookLive.com

Advanced Electronics Limited

The Bridges, Balliol Business Park, Longbenton, Newcastle-Upon-Tyne NE12 8EW, United Kingdom
Tel: +44 (0)345 894 7000 • Fax: +44 (0)1670 707 222
E-mail: pbrown@advancedco.com • Website: www.advancedco.com

Certificate No: 928h-(cl-5) to EN 54-11: 2001 + A1: 2002 + A2: 2006 and EN 54-17: 2005

Certificated Products		LPCB Ref. No.
AXIS-CP	Altair Type A Indoor Addressable Manual Call Point with Short Circuit Isolator (ALCI-Transparent hinged cover and FMP-303 Flush Fitting Bezel)	928h/02
AXIS-WCP	Altair Type A Outdoor Addressable Manual Call Point with Short Circuit Isolator (Waterproof) (ALCI -Transparent hinged cover)	928h/03

Ancillaries
SR01 Surface mounting box
Flush mounting plate
ALCI -Transparent hinged cover
FMP-303 Flush Fitting Bezel

A copy of the certificate, confirming the full scope of approval including notes relating to the superscript references in the above table, may be viewed online by clicking on the product name in the associated entry on www.RedBookLive.com

Certificate No: 928p-(cl-1) to EN 54-11:2001+A1:2005, EN 54-25:2008

Certificated Products		LPCB Ref. No.
AXIS-RCP	Wireless Type A Indoor Addressable Manual Call Point (ALCI-Transparent hinged cover) Note: This device must be used with the following battery only: CR123A (3Vdc) Batteries	928p/02

Ancillaries
ALCI- Transparent hinged cover

A copy of the certificate, confirming the full scope of approval including notes relating to the superscript references in the above table, may be viewed online by clicking on the product name in the associated entry on www.RedBookLive.com

Advantronic Systems S.L.

C/Yunque 9 Nave B1, Tres Cantos, Madrid 28760, Spain
Tel: +34 91 806 2343 • Fax: +34 91 803 1171
E-mail: jpedrouzo@advantronic.es • Website: www.advantronic.es

Certificate No: 928h-(cl-3) to EN 54-11: 2001 + A1: 2002 + A2: 2006 and EN 54-17: 2005

Certificated Products		LPCB Ref. No.
AV411AL	Altair Type A Indoor Addressable Manual Call Point with Short Circuit Isolator (ALCI-Transparent hinged cover and FMP-303 Flush Fitting Bezel)	928h/02
AV411ALE	Altair Type A Outdoor Addressable Manual Call Point with Short Circuit Isolator (Waterproof) (ALCI -Transparent hinged cover)	928h/03

Ancillaries
SR01 Surface mounting box
Flush mounting plate
ALCI -Transparent hinged cover
FMP-303 Flush Fitting Bezel

A copy of the certificate, confirming the full scope of approval including notes relating to the superscript references in the above table, may be viewed online by clicking on the product name in the associated entry on www.RedBookLive.com

Certificate No: 928p-(cl-2) to EN 54-11:2001+A1:2005, EN 54-25:2008

Certificated Products		LPCB Ref. No.
AVW411AL	Wireless Type A Indoor Addressable Manual Call Point (ALCI-Transparent hinged cover) Note: This device must be used with the following battery only: CR123A (3Vdc) Batteries	928p/02

A copy of the certificate, confirming the full scope of approval including notes relating to the superscript references in the above table, may be viewed online by clicking on the product name in the associated entry on www.RedBookLive.com

Al Rayan Security & Safety Trading

Warehouse No, 12, Al Qusais Industrial Area 4, P O Box 233949, Dubai, United Arab Emirates
Tel: +971 42630396 • Fax: +971 42630397
E-mail: rayandxb@eim.ae • Website: www.rayandxb.ae

Certificate No: 1174d-(cl-5) to EN 54-11:2001 + A1:2005

Manual Call Points

Certificated Products		LPCB Ref. No.
SC-6653	Conventional Resettable Type A Indoor Manual Call Point (branded as SECURE)	1174d/01
SI-6657	Addressable Resettable Type A Indoor Manual Call Point (branded as SECURE)	1174d/02

A copy of the certificate, confirming the full scope of approval including notes relating to the superscript references in the above table, may be viewed online by clicking on the product name in the associated entry on www.RedBookLive.com

Al Tahadi Security And Safety Equipment Trading

PO Box 45668, Ind. Area 11, Sharjah, United Arab Emirates
Tel: +971 5 0868 4543 • Fax: +971 6535 9220
E-mail: Sharqawi61@yahoo.com • Website: www.tahadi-fire.com

Certificate No: 506d-(cl-6) to EN 54-11: 2001 + A1: 2005

Manual Call points

Certificated Products		LPCB Ref. No.
OM-0217	Conventional Type A Indoor Surface/Flush Mounting Manual Call Point *Note:* *1. Approved for surface mount use when used with the AHMB-0217 back box*	506d/01

Accessories:
AHMB-0217 Back box for surface mounting
A copy of the certificate, confirming the full scope of approval including notes relating to the superscript references in the above table, may be viewed online by clicking on the product name in the associated entry on www.RedBookLive.com

Ampac Pty Ltd

7 Ledgar Road, Balcatta 6021, Australia
Tel: +618 (9242) 3333 • Fax: +618 (9242) 3334
E-mail: askellham@ampac.net • Website: www.ampac.net

Certificate No: 010w to EN 54-11:2001 and EN 54-17:2005

Certificated Products		LPCB Ref. No.
213-0051	Analogue addressable manual call point with short circuit isolator and surface mounting box	010w/01
58100-951AMP	Discovery analogue addressable waterproof manual call point with short circuit isolator	010w/06

43785-278 Mounting Bracket
43785-279 Back Box

Certificate No: 010bh-(cl-4) to EN 54-11:2001 + A1:2005 & EN 54-17:2005

Manual Call points

Certificated Products		LPCB Ref. No.
SA5900-908AMP	Intelligent Analogue Addressable Type A Indoor Manual Call Point with Short Circuit Isolator (Mounting Bracket and Back Box)	010bh/01

43785-278 Mounting Bracket
43785-279 Back Box

A copy of the certificate, confirming the full scope of approval including notes relating to the superscript references in the above table, may be viewed online by clicking on the product name in the associated entry on www.RedBookLive.com

---

Apollo Fire Detectors Limited

36 Brookside Road, Havant, Hampshire PO9 1JR, United Kingdom
Tel: +44 (0)2392 492412 • Fax: +44 (0)2392 492754
E-mail: enquiries@apollo-fire.co.uk

Sales Enquiries Germany
Apollo Deutschland GmbH
Tel: +49 5241 330 60 • Fax: +49 5241 330 629
E-mail: info@apollo-feuer.de

Sales Enquiries Spain
Apollo Espana
Tel: +34 627 988 061 • Fax: +34 949 335 289
E-mail: apollo.espana@apollo-fire.com

Sales Enquiries China
Apollo Fire Detectors Limited, Shanghai representative office
Tel: +86 21 5237 0922 • Fax: +86 21 5237 0920
E-mail: tony.ye@apollo-fire.com

Certificate No: 010n to EN 54-11: 2001

Certificated Products		LPCB Ref. No.
55100-905	XP95 Analogue addressable manual call point with surface mounting box	010n/02
58100-910	Discovery Analogue addressable manual call point with surface mounting box	010n/06
58100-950	Discovery Analogue addressable waterproof manual call point	010n/08
55100-940	XP95IS Analogue addressable intrinsically safe manual call point.	010n/09
58100-950PRC	Discovery Analogue Addressable Waterproof Manual Call Point	010n/08
55100-940PRC	XP95 IS Analogue Addressable Intrinsically Safe Manual Call Point	010n/09

Bases

38532-008	Back Box
43785-278	Mounting Bracket
43785-279	Back Box

A copy of the certificate, confirming the full scope of approval including notes relating to the superscript references in the above table, may be viewed online by clicking on the product name in the associated entry on www.RedBookLive.com

Certificate No: 010w to EN 54-11: 2001 and EN 54-17: 2005

Manual Call points

Certificated Products		LPCB Ref. No.
55100-908 XP95	Analogue addressable manual call point with short circuit isolator and surface mounting box	010w/01
58100-908 Discovery	Analogue addressable manual call point with short circuit isolator and surface mounting box	010w/03
58100-951 Discovery	Analogue addressable waterproof manual call point with short circuit isolator	010w/06
58100-908SIL	Discovery Analogue Addressable Manual Call Point with Short Circuit Isolator and Surface Mounting Box	010w/03
58100-908PRC	Discovery Analogue Addressable Manual Call Point with Short Circuit Isolator and Surface Mounting Box	010w/03

Bases

38532-008	Back Box
43785-278	Mounting Bracket
43785-279	Back Box

A copy of the certificate, confirming the full scope of approval including notes relating to the superscript references in the above table, may be viewed online by clicking on the product name in the associated entry on www.RedBookLive.com

Certificate No: 010au to EN 54-11: 2001 + A1: 2005

Manual Call points

Certificated Products		LPCB Ref. No.
55400-894	Alarmsense Type A Indoor Manual Call Point (43785-278 Mounting Bracket and 43785-279 Back Box)	010au/14

Bases

38532-008	Back Box
43785-278	Mounting Bracket
43785-279	Back Box

A copy of the certificate, confirming the full scope of approval including notes relating to the superscript references in the above table, may be viewed online by clicking on the product name in the associated entry on www.RedBookLive.com

Certificate No: 010av to EN 54-11: 2001 + A1: 2005 and EN 54-17: 2005

Manual Call points

Certificated Products		LPCB Ref. No.
58200-971	Discovery Analogue Addressable Type A Indoor Manual Call Point with Short Circuit Isolator	010av/03

A copy of the certificate, confirming the full scope of approval including notes relating to the superscript references in the above table, may be viewed online by clicking on the product name in the associated entry on www.RedBookLive.com

Certificate No: 010bh to EN 54-11:2001 + A1:2005 & EN 54-17:2005

Manual Call points

Certificated Products		LPCB Ref. No.
SA5900-908	Intelligent Analogue Addressable Manual Call Point with Short Circuit Isolator (Mounting Bracket and Back Box)	010bh/01
SA5900-928	Intelligent Analogue Addressable Marine Manual Call Point with Short Circuit Isolator (Mounting Bracket and Back Box)	010bh/03
SA5900-908	Intelligent Analogue Addressable Type A Indoor Manual Call Point with Short Circuit Isolator (Mounting Bracket and Back Box)	010bh/05
SA5900-928	Intelligent Analogue Addressable Type A Indoor Marine Manual Call Point with Short Circuit Isolator (Mounting Bracket and Back Box)	010bh/06

Bases

38532-008	Back Box

43785-278	Mounting Bracket
43785-279	Back Box

A copy of the certificate, confirming the full scope of approval including notes relating to the superscript references in the above table, may be viewed online by clicking on the product name in the associated entry on www.RedBookLive.com

---

Argus Security S.r.l.

Via del Canneto 14, Valle delle Noghere, 34015 Muggia, Trieste, Italy
Tel: +39 (0) 402821110 • Fax: +39 (0) 402823483
E-mail: dcresseri@argussecurity.it • Website: www.argussecurity.it

Certificate No: 928h to EN 54-11: 2001 + A1: 2002 and EN 54-17: 2005

Certificated Products		LPCB Ref. No.
ALCP100	Altair Type A Indoor Addressable Manual Call Point with Short Circuit Isolator (ALCI-Transparent hinged cover and FMP-303 Flush Fitting Bezel)	928h/02
AI-CPW-R-01	Altair Type A Outdoor Addressable Manual Call Point with Short Circuit Isolator (Waterproof) (ALCI -Transparent hinged cover)	928h/03

Ancillaries
SR01 Surface mounting box
Flush mounting plate
ALCI -Transparent hinged cover
FMP-303 Flush Fitting Bezel

A copy of the certificate, confirming the full scope of approval including notes relating to the superscript references in the above table, may be viewed online by clicking on the product name in the associated entry on www.RedBookLive.com

Certificate No: 928p to EN 54-11:2001+A1:2005, EN 54-25:2008

Certificated Products		LPCB Ref. No.
SGCP200	Wireless Type A Indoor Addressable Manual Call Point (ALCI-Transparent hinged cover) Note: This device must be used with the following battery only: CR123A (3Vdc) Batteries	928p/02

Ancillaries
ALCI- Transparent hinged cover

A copy of the certificate, confirming the full scope of approval including notes relating to the superscript references in the above table, may be viewed online by clicking on the product name in the associated entry on www.RedBookLive.com

---

Armor Safety & Security Ltd

120 Baker Street, London W1U 6TU, United Kingdom
Tel: +971506531199
Website: www.armorsafety.org

Certificate No: 928h-(cl-13) to EN 54-11:2001 + A1: 2005, EN 54-17:2005

Certificated Products		LPCB Ref. No.
ARM-ALCP100	Altair Type A Indoor Addressable Manual Call Point with Short Circuit Isolator (ALCI-Transparent hinged cover and FMP-303 Flush Fitting Bezel)	928h/02
ARM-WCP	Altair Type A Outdoor Addressable Manual Call Point with Short Circuit Isolator (Waterproof) (ALCI -Transparent hinged cover)	928h/03

Ancillaries
ALCI -Transparent hinged cover
FMP-303 Flush Fitting Bezel

A copy of the certificate, confirming the full scope of approval including notes relating to the superscript references in the above table, may be viewed online by clicking on the product name in the associated entry on www.RedBookLive.com

ASENWARE LTD

6 Prospect Way, Royal Oak Industrial Estate, Daventry, Northamptonshire NN11 8PL, United Kingdom
Tel: +8613828765759
E-mail: info@asenware.com

Certificate No: 1426d-(cl-3) to EN 54-11:2001 + A1:2005

Certificated Products		LPCB Ref. No.
AW-D305	Addressable Manual Call Point	1426d/01

A copy of the certificate, confirming the full scope of approval including notes relating to the superscript references in the above table, may be viewed online by clicking on the product name in the associated entry on www.RedBookLive.com

ASI Oy Ltd

Laitaatsillantie 3, Savonlinna 57170, Finland
Tel: +358 20 730 8550
E-mail: mail@asioy.fi • Website: https://asioy.fi/

Certificate No: 1571d to EN 54-11:2001 + A1:2005 & EN 54-25:2008

Manual Call points

Certificated Products		LPCB Ref. No.
ARF-WL8-CP	Wireless Type A Indoor Manual Call Point Note: 1. The device must be used with the following batteries only: - Primary CR123A (3V) - Secondary CR2032 (3V)	1571d/01
EK-WL8-CP	(EKHO Brand) Wireless Type A Indoor Manual Call Point Note: 1. The device must be used with the following batteries only: - Primary CR123A (3V) - Secondary CR2032 (3V)	1571d/01
KM-WL8-CP	(K-Mesh Brand) Wireless Type A Indoor Manual Call Point Note: 1. The device must be used with the following batteries only: - Primary CR123A (3V) - Secondary CR2032 (3V)	1571d/01

A copy of the certificate, confirming the full scope of approval including notes relating to the superscript references in the above table, may be viewed online by clicking on the product name in the associated entry on www.RedBookLive.com

ATEIS Middle East FZCO

LIU 11 Dubai Silicon Oasis, Post Box 293640, Dubai, United Arab Emirates
Tel: +971 4 3262730 • Fax: +971 4 3262731
E-mail: info@ateis.ae • Website: www.ateis.ae

Certificate No: 1154q to EN 54-11:2001 + A1:2005, EN 54-25:2008

Certificated Products		LPCB Ref. No.
WLCP100X	Velox Wireless Manual Call Point (ALCI-Transparent hinged cover) *Note:* *This device must be used with the following battery only:* *CR123A (3Vdc) Batteries*	1154q/01

Ancillaries
SR01 Surface mounting box
Flush mounting plate
ALCI- Transparent hinged cover

A copy of the certificate, confirming the full scope of approval including notes relating to the superscript references in the above table, may be viewed online by clicking on the product name in the associated entry on www.RedBookLive.com

Bharat Fire Fighting PVT Ltd

Garudichira House, Kuriyannoor post,, Thottappuzhassery, Pullada,, Pathanam Thitta, Kerala 689550, India
Tel: 00919446274427
E-mail: info@bhafffco.com

Certificate No: 1450e-(cl-3) to EN 54-11: 2001 + A1: 2005

Certificated Products		LPCB Ref. No.
BKG400	Indoor Analogue Addressable Type A Re-settable Manual Call Point	1450e/01

A copy of the certificate, confirming the full scope of approval including notes relating to the superscript references in the above table, may be viewed online by clicking on the product name in the associated entry on www.RedBookLive.com

Bristol Fire Engineering LLC

Al Quoz Industrial Area 3, P.O.Box 74582, Dubai, United Arab Emirates
Tel: +971 4 347 2426 • Fax: +971 4 347 2363
E-mail: sami@bristol-fire.com • Website: www.bristol-fire.com

Certificate No: 1174d-(cl-3) to EN 54-11:2001 + A1:2005

Manual Call Points

Certificated Products		LPCB Ref. No.
B61-5101	Conventional Resettable Type A Indoor Manual Call Point	1174d/01

A copy of the certificate, confirming the full scope of approval including notes relating to the superscript references in the above table, may be viewed online by clicking on the product name in the associated entry on www.RedBookLive.com

Certificate No: 1330g-(cl-2) to EN 54-11:2011 + A1:2005

A copy of the certificate, confirming the full scope of approval including notes relating to the superscript references in the above table, may be viewed online by clicking on the product name in the associated entry on www.RedBookLive.com

Carrier Fire & Security BV

Kelvinstraat 7, 6003DH, Weert, The Netherlands
Tel: +31 495 579 579
E-mail: heni.karaa@carrier.com • Website: www uk.firesecurityproducts.com/en

Certificate No: 1062e to EN 54-11:2001 + A1:2005

Manual Call points

Certificated Products		LPCB Ref. No.
ZP785-3	Analogue Addressable Type A Indoor Manual Call Point	1062e/01
	Accessories: DMN787 Surface mounting box with earth terminal, red DMN790 Flush mount cradle with connectors	

Certificated Products		LPCB Ref. No.
	DMN795 Flush mount cradle with connectors and forkgrips DMN782 Hinged transparent MCP protection cover DMN715 EN 54 universal MCP glass DMN784 Call point test key DMN800 Resettable element	
ZP785-3S30	Analogue Addressable Type A Indoor Manual Call Point (Branded as Chubb)	1062e/01
	Accessories: DMN787 Surface mounting box with earth terminal, red DMN790 Flush mount cradle with connectors DMN795 Flush mount cradle with connectors and forkgrips DMN782 Hinged transparent MCP protection cover DMN715 EN 54 universal MCP glass DMN784 Call point test key DMN800 Resettable element	
CL785-3	Analogue Addressable Type A Indoor Manual Call Point (Branded as Clymac)	1062e/01
	Accessories: DMN787 Surface mounting box with earth terminal, red DMN790 Flush mount cradle with connectors DMN795 Flush mount cradle with connectors and forkgrips DMN782 Hinged transparent MCP protection cover DMN715 EN 54 universal MCP glass DMN784 Call point test key DMN800 Resettable element	
ZP785-3S-SW	Analogue Addressable Type A Indoor Manual Call Point (Branded as Ziton)	1062e/01
	Accessories: DMN787 Surface mounting box with earth terminal, red DMN790 Flush mount cradle with connectors DMN795 Flush mount cradle with connectors and forkgrips DMN782 Hinged transparent MCP protection cover DMN715 EN 54 universal MCP glass DMN784 Call point test key DMN800 Resettable element	
ZP787-3	Analogue Addressable Type A Outdoor Manual Call Point	1062e/02
	Accessories: DMN782 Hinged transparent MCP protection cover DMN715 EN 54 universal MCP glass DMN784 Call point test key DMN800 Resettable element	

Ceasefire Industries Private Ltd

E6, Upsidc Industrial Area,, Selaqui, Dehradun, Uttarakhand 24001, India
Tel: +911204223473
E-mail: amit@ceasefire.in

Certificate No: 928p-(cl-9) to EN 54-11 : 2001 + A1 :2005 & EN 54-25: 2008

Certificated Products		LPCB Ref. No.
TI-002347A	Wireless Type A Indoor Addressable Manual Call Point (ALCI-Transparent hinged cover) Note: This device must be used with the following battery only: - CR123A (3Vdc) Batteries	928p/02

Ancillaries

SR01 Surface Mount Back Box
ALCI Transparent hinged cover
FMP-303 Flush Fitting Bezel

A copy of the certificate, confirming the full scope of approval including notes relating to the superscript references in the above table, may be viewed online by clicking on the product name in the associated entry on www.RedBookLive.com

Certificate No: 928h-(cl-12) to EN 54-11: 2001 + A1: 2005 & EN 54-17: 2005

Certificated Products		LPCB Ref. No.
TI-002431	Analogue Addressable Type A Indoor Re-Settable Manual Call Point with Short Circuit Isolator (ALCI- Transparent hinged cover and FMP-303 Flush Fitting Bezel)	928h/02

Ancillaries
SR01 Surface mounting box
Flush mounting plate
ALCI -Transparent hinged cover
FMP-303 Flush Fitting Bezel

A copy of the certificate, confirming the full scope of approval including notes relating to the superscript references in the above table, may be viewed online by clicking on the product name in the associated entry on www.RedBookLive.com

Ceasefire Industries Pvt. Ltd

B1/H1 2nd Floor, Mohan Cooperative Industrial Estate, Mathura Rd, New Delhi, Delhi 110044, India
Tel: +91 120 4255800 • Fax: +91 120 4255801
E-mail: amit@ceasefire.in • Website: www.ceasefire.in

Certificate No: 959a-(cl-1) to EN 54-11:2001 + A1:2005

Certificated Products		LPCB Ref. No.
TI-002269	Conventional Type A Indoor Manual Call Point	959a/01

Ancillaries

CALL-105_A	Back box for wall mounting
CALL-190_A	Wall Mount Plate (60mm) for semi-flush mounting
CALL-125_A	Safety cover

A copy of the certificate, confirming the full scope of approval including notes relating to the superscript references in the above table, may be viewed online by clicking on the product name in the associated entry on www.RedBookLive.com

Computionics Limited (Trading as C-Tec)

Challenge Way, Martland Park, Wigan, Lancashire WD5 0LD, United Kingdom
Tel: +44 (0)1942 322744/42444 • Fax: +44 (0)1942 829867
E-mail: sales@C-tec.co.uk • Website: www.c-tec.co.uk

Certificate No: 176h to EN 54-11:2001 + A1:2005, EN 54-17:2005

Certificated Products		LPCB Ref. No.
CA470	Type A Indoor Addressable CAST Manual Call Point with Short Circuit Isolator	176h/01

Accessories:
Red Single Gang Back Box

A copy of the certificate, confirming the full scope of approval including notes relating to the superscript references in the above table, may be viewed online by clicking on the product name in the associated entry on www.RedBookLive.com

Context Plus Ltd

Progress House, Newby Industrial Estate, Newby Road, Hazel Grove, Stockport SK7 5DA, United Kingdom
Tel: +44 (0)161 257 2541 • Fax: +44 (0)161 225 8817
E-mail: xportsales@xportsales.com • Website: www.xportsales.com

Certificate No: 010bh-(cl-1) to EN 54-11:2001 + A1:2005, EN 54-17:2005

Certificated Products		LPCB Ref. No.
SA5900-908IMC	Intelligent Addressable Manual Call Point with Short Circuit Isolator (43785-278 Mounting Bracket and 43785-279 Back Box)	010bh/01

Accessories:

43785-278	Mounting Bracket
43785-279	Back Box
SR	Surface mounting plastic box
SR1T	Surface mounting plastic box c/w 1 terminal
SR2T	Surface mounting plastic box c/w 2 terminals
SR3T	Surface mounting plastic box c/w 3 terminals
SR4T	Surface mounting plastic box c/w 4 terminals
MR	Surface mounting metal box
ETT	European Terminal Tray ETT1, 2 & 3
L	Earth Continuity Link
BZR/1	Bezel Type 1
BZR/2	Bezel Type 2
BZR/3	Bezel Type 3
M141W	Spacer Piece
PTR	Pattress PTR, PTRE, PTR2T, PTR2TE, PTR3T & PTR3TE
C	Hinged Cover

A copy of the certificate, confirming the full scope of approval including notes relating to the superscript references in the above table, may be viewed online by clicking on the product name in the associated entry on www.RedBookLive.com

Certificate No: 176h-(cl-1) to EN 54-11:2001 + A1:2005, EN 54-17:2005

Certificated Products		LPCB Ref. No.
CA470/CON	Type A Indoor Addressable CAST Manual Call Point with Short Circuit Isolator	176h/01

CA470/CON Red Single Gang Back Box

A copy of the certificate, confirming the full scope of approval including notes relating to the superscript references in the above table, may be viewed online by clicking on the product name in the associated entry on www.RedBookLive.com

Certificate No: 567av-(cl-3) to EN 54-11:2001 + A1:2005

Manual Call points

Certificated Products		LPCB Ref. No.
MCP1A-525IMC	Indoor Surface/Flush Mounting Conventional Call Point	567av/01

Accessories:

43785-278	Mounting Bracket
43785-279	Back Box
SR	Surface mounting plastic box
SR1T	Surface mounting plastic box c/w 1 terminal
SR2T	Surface mounting plastic box c/w 2 terminals
SR3T	Surface mounting plastic box c/w 3 terminals
SR4T	Surface mounting plastic box c/w 4 terminals
MR	Surface mounting metal box
ETT	European Terminal Tray ETT1, 2 & 3
L	Earth Continuity Link
BZR/1	Bezel Type 1
BZR/2	Bezel Type 2

BZR/3	Bezel Type 3
M141W	Spacer Piece
PTR	Pattress PTR, PTRE, PTR2T, PTR2TE, PTR3T & PTR3TE
C	Hinged Cover

A copy of the certificate, confirming the full scope of approval including notes relating to the superscript references in the above table, may be viewed online by clicking on the product name in the associated entry on www.RedBookLive.com

---

DEF..

7, rue du Saule Trapu, MASSY 91300, France
Tel: +33 (0) 160136772
E-mail: frederic.chateau@coflec.com

Certificate No: 1549c-(cl-1) to EN 54-11:2001 + A1:2005, EN 54-17:2005

Manual Call points

Certificated Products		LPCB Ref. No.
LDMA	Addressable Resettable Type A Indoor Manual Call Point with Short Circuit Isolator	1549c/01
LDMA-IP	Addressable Resettable Type A Outdoor Manual Call Point with Short Circuit Isolator	1549c/02

A copy of the certificate, confirming the full scope of approval including notes relating to the superscript references in the above table, may be viewed online by clicking on the product name in the associated entry on www.RedBookLive.com

---

Detect Fire LLC

1050 Temple Ave, Colonial Heights, Virginia 23834, USA
Tel: 804-417-2244
E-mail: marketing@detectfire.info • Website: http://detectfire.info/

Certificate No: 506d-(cl-5) to EN 54-11:2001 + A1:2005

Certificated Products		LPCB Ref. No.
DF-610-CCP	Conventional Type A Outdoor Manual Call Point Note: 1. Approved for surface mount use when used with the AHMB-0817 back box	506d/02

AHMB-0817 Back box for surface mounting
A copy of the certificate, confirming the full scope of approval including notes relating to the superscript references in the above table, may be viewed online by clicking on the product name in the associated entry on www.RedBookLive.com

---

Detectomat Systems GmbH..

An der Strusbek 3, Ahrensburg, Hamburg 22926, Germany
Tel: +49 41 02 21 14 60 • Fax: +49 4102 2114 670
E-mail: zulassung@detectomat.com

Certificate No: 1549c-(cl-2) to EN 54-11:2001 + A1:2005 & EN 54-17:2005

Manual Call points

Certificated Products		LPCB Ref. No.
DMA15	Addressable Resettable Type A Indoor Manual Call Point with Short Circuit Isolator	1549c/01

A copy of the certificate, confirming the full scope of approval including notes relating to the superscript references in the above table, may be viewed online by clicking on the product name in the associated entry on www.RedBookLive.com

Eaton Electrical Products Limited

Llantarnam Park, Cwmbran, Gwent NP44 3AW, United Kingdom
Tel: +44 (0)1633 628500 • Fax: +44 (0)1633 866346
E-mail: sales@fulleon.co.uk • Website: www.cooperfulleon.com

Certificate No: 378c to EN 54: Part 11: 2001

Certificated Products		LPCB Ref. No.
CXL/GP/R/WP	Conventional type A glass or plastic re-settable indoor/outdoor manual call point	378c/04
CXL/GP/R/BB	Conventional type A glass or plastic re-settable indoor manual call point, with surface mount back box	378c/05
CXL/GP/R/WP	Conventional type A glass or plastic re-settable indoor/outdoor manual call point	378c/06
MBG914	Conventional Type A Indoor Manual Call Point with 470R Resistor and 4V7 Zener Diode	378c/07
CX201	Conventional Type A Indoor Manual Call Point with 680R Resistor	378c/07
FX201	Conventional Type A Indoor Manual Call Point with 680R Resistor	378c/07
MBG917	Conventional Type A Weatherproof Manual Call Point with 470R Resistor and 4V7 Zener Diode	378c/08
CX203	Conventional Type A Weatherproof Manual Call Point with 680R 2W Resistor	378c/08
FX203	Conventional Type A Weatherproof Manual Call Point with 680R 2W Resistor	378c/08

A copy of the certificate, confirming the full scope of approval including notes relating to the superscript references in the above table, may be viewed online by clicking on the product name in the associated entry on www.RedBookLive.com

Certificate No: 378d-(cl-1) to EN 54-11:2001+A1:2005, EN 54-17:2005

Certificated Products		LPCB Ref. No.
CBG 370S (Cooper)	Addressable Type A Glass Indoor Manual Call Point with Surface Mount Back Box	378d/05
MBG813 (Menvier)	Addressable Type A Glass Indoor Manual Call Point with Surface Mount Back Box	378d/05
FXN501 (JSB)	Addressable Type A Glass Indoor Manual Call Point with Surface Mount Back Box	378d/05
CBG 370WP (Cooper)	Addressable Weatherproof Type A Glass Indoor/Outdoor Manual Call Point	378d/08
MBG817 (Menvier)	Addressable Weatherproof Type A Glass Indoor/Outdoor Manual Call Point	378d/08
FXN503 (JSB)	Addressable Weatherproof Type A Glass Indoor/Outdoor Manual Call Point	378d/08
CBG 370-O	Addressable Type A Glass Indoor Manual Call Point, Flush Mounted	378d/13
CBG 370WP-O	Addressable Weatherproof Type A Glass Indoor/Outdoor Manual Call Point	378d/14

A copy of the certificate, confirming the full scope of approval including notes relating to the superscript references in the above table, may be viewed online by clicking on the product name in the associated entry on www.RedBookLive.com

Certificate No: 378j to EN 54-11:2001+A1:2005

Certificated Products		LPCB Ref. No.
MBG917	Conventional Type A Weatherproof Manual Call Point with 470R Resistor and 4V7 Zener Diode	378j/02
CX203	Conventional Type A Weatherproof Manual Call Point with 680R 2W Resistor	378j/02
FX203	Conventional Type A Weatherproof Manual Call Point with 680R 2W Resistor	378j/02

A copy of the certificate, confirming the full scope of approval including notes relating to the superscript references in the above table, may be viewed online by clicking on the product name in the associated entry on www.RedBookLive.com

Eaton Electrical Systems Limited

Wheatley Hall Road, Doncaster, South Yorkshire DN2 4NB, United Kingdom
Tel: +44 (0)1302 303397 • Fax: +44 (0)1302 303397

Certificate No: 378d-(cl-1) to EN 54-11: 2001 + A1; 2005, EN 54-17: 2005

Elite Security Products (ESP)

Unit 7, Target Park, Shawbank Road, Redditch, Birmingham B98 8YN, United Kingdom
Tel: +44 (0)1527 515150
E-mail: info@espuk.com • Website: https://www.espuk.com/

Certificate No: 331d-(cl-1) to EN 54-11: 2001 + A1: 2005

Certificated Products		LPCB Ref. No.
MAGDUOCP	MAGDUO Conventional Type A Indoor Manual Call Point	331d/03
MAGDUOCPIP65	MAGDUO Conventional Type A Outdoor Manual Call Point	331d/04

Accessories
For indoor devices
45-0079-205 Standard Backbox
25-0078-205 Bezel

A copy of the certificate, confirming the full scope of approval including notes relating to the superscript references in the above table, may be viewed online by clicking on the product name in the associated entry on www.RedBookLive.com

Emirates Fire Fighting Equipment Factory L.L.C. (FIREX)

P.O.Box 22436, Industrial Area 13, Sharjah, United Arab Emirates
Tel: +971 6 5340300 • Fax: +971 6 5340090
E-mail: firex@emirates.net.ae • Website: www.firexuae.com

Certificate No: 506d to EN 54-11: 2001

Certificated Products		LPCB Ref. No.
FX-0217	Conventional indoor surface/flush mounting manual call point *Note: Approved for surface mount use when used with the AHMB-0217 back box*	506d/01

Accessories:
AHMB-0217 back box for surface mounting

Eurotech Fire Systems Limited

19/20 Stratfield Park, Elettra Avenue, Waterlooville, Hampshire PO7 7XN, United Kingdom
Tel: +44 (0)203 141 0999 • Fax: +44 (0)239 225 2554
E-mail: MICHELLE.AGIUS@eurotechfire.com • Website: www.eurotechfire.com

Certificate No: 1213m to EN 54-11: 2001 + A1: 2005 and EN 54-17: 2005

Manual Call points

Certificated Products		LPCB Ref. No.
200-500A	Odyssey Intelligent Analogue Addressable Type A Indoor Manual Call Point with Short Circuit Isolator (Mounting Bracket and Back Box)	1213m/03
100-2203V	Type A Indoor Addressable Manual Call Point with Short Circuit Isolator (ALCI-Transparent hinged cover and FMP-303 Flush Fitting Bezel)	1213m/04
100-2204V	Type A Outdoor Addressable Manual Call Point with Short Circuit Isolator (Waterproof) (ALCI -Transparent hinged cover)	1213m/05

Ancillaries

43785-278 Mounting Bracket
43785-279 Back Box
ALCI Transparent hinged cover
FMP-303 Flush Fitting Bezel

A copy of the certificate, confirming the full scope of approval including notes relating to the superscript references in the above table, may be viewed online by clicking on the product name in the associated entry on www.RedBookLive.com

Certificate No: 1213z to EN 54-11: 2001 + A1: 2005 & EN 54-25: 2008

Manual Call points

Certificated Products		LPCB Ref. No.
EUW-CP-RS	Wireless Type A Indoor Addressable Manual Call Point (ALCI-Transparent hinged cover) *Note:* *This device must be used with the following battery only:* *CR123A (3Vdc) Batteries*	1213z/02

Ancillaries
SR01 Surface Mount Back Box
ALCI Transparent hinged cover

A copy of the certificate, confirming the full scope of approval including notes relating to the superscript references in the above table, may be viewed online by clicking on the product name in the associated entry on www.RedBookLive.com

---

Everday Technology Co. Limited

No,.95., Sec. 2., Ligong 1 St. Road., Letzer Industrial Park, Yilan County 26841, Taiwan ROC
Tel: +886 3 990 6099 • Fax: +862 3 990 6029
E-mail: alex.hsieh@everday.com • Website: www.everday.com

Certificate No: 512f to EN 54-11: 2001 + A1: 2005

Certificated Products		LPCB Ref. No.
EM921	Conventional manual call point with LED	512f/01
EM921-F	Conventional manual call point with flashy LED	512f/02
EM921-TC	Convetnional manual call point with LED and transparent cover	512f/03
EM921-FTC	Conventional manual call point with flashy LED and transparent cover	512f/04

Accessories:
EM921B1 Regular mounting base, 28mm
EM921B2 High mounting base, 40mm
EM921B3 High mounting base, 55m
A copy of the certificate, confirming the full scope of approval including notes relating to the superscript references in the above table, may be viewed online by clicking on the product name in the associated entry on www.RedBookLive.com

---

Fike Safety Technology Ltd

Unit 31, Springvale Industrial Estate, Cwmbran, Gwent NP44 5BD, United Kingdom
Tel: +44 (0)1633 865558 • Fax: +44 (0)1633 866656
E-mail: fstinfo@fike.com • Website: www.fikesafetytechnology.co.uk

Certificate No: 331e to EN 54-11: 2001 + A1: 2005 and EN 54-17: 2005

Certificated Products		LPCB Ref. No.
403-0006	Sita analogue addressable Type A indoor manual call point with short circuit isolator	331e/01
403-0007	Sita analogue addressable Type A outdoor manual call point with short circuit isolator	331e/02

Accessories
for indoor devices
45-0079-205 Standard backbox
25-0078-205 Bezel

A copy of the certificate, confirming the full scope of approval including notes relating to the superscript references in the above table, may be viewed online by clicking on the product name in the associated entry on www.RedBookLive.com

Certificate No: 331d to EN 54-11:2001+A1:2005

Certificated Products		LPCB Ref. No.
400-0006	Zeon Conventional Type A Indoor Manual Call Point	331d/01
400-0007	Zeon Conventional Type A Outdoor Manual Call Point	331d/02
402-0006	Twinflex Conventional Type A Indoor Manual Call Point	331d/03
402-0007	Twinflex Conventional Type A Outdoor Manual Call Point	331d/04

Accessories

For indoor devices
45-0079-205 Standard backbox
25-0078-205 Bezel

A copy of the certificate, confirming the full scope of approval including notes relating to the superscript references in the above table, may be viewed online by clicking on the product name in the associated entry on www.RedBookLive.com

---

Finder Yangin Güvenlik Elektronik Sistemler A.Ş

Kepez Mh, 5071 Sk. No: 10, Kepez, Antalya 07090, Turkey
Tel: +90 242 221 40 07 • Fax: +90 242 259 28 88
E-mail: info@finder.com.tr • Website: www.finder.com.tr

Certificate No: 1450e-(cl-1) to EN 54-11: 2001 + A1: 2005

Certificated Products		LPCB Ref. No.
FF CP500	Intelligent Addressable Type A Re-settable Manual Call Point	1450e/01

A copy of the certificate, confirming the full scope of approval including notes relating to the superscript references in the above table, may be viewed online by clicking on the product name in the associated entry on www.RedBookLive.com

---

Finder Yangin Güvenlik Elektronik Sistemler A.Ş

Kepez Mh., 5071 Sk, No: 10 07090, Kepez, Antalya, Turkey
Tel: +90 242 259 04 20 • Fax: +90 242 259 28 88
E-mail: finder@finder.com.tr • Website: www.finder.com.tr

Certificate No: 928h-(cl-1) to EN 54-11: 2001 + A1: 2002 + A2: 2006 and EN 54-17: 2005

Certificated Products		LPCB Ref. No.
FF VB200A	Type A Indoor Addressable Manual Call Point with Short Circuit Isolator (ALCI-Transparent hinged cover and FMP-303 Flush Fitting Bezel)	928h/02

Ancillaries
SR01 Surface mounting box
Flush mounting plate
Deep back box
Safety cover
Wall flush mount plate (white only) and external trim frame (white only)
ALCI -Transparent hinged cover
FMP-303 Flush Fitting Bezel

A copy of the certificate, confirming the full scope of approval including notes relating to the superscript references in the above table, may be viewed online by clicking on the product name in the associated entry on www.RedBookLive.com

Fire Fighter CO Security and Safety Equipment Trading LLC

Al Qusais Industry Area 4, P O Box 84926, Dubai, United Arab Emirates
Tel: 00971-4-2554494
E-mail: mutasem@firefighterco1.ae

Certificate No: 1174d-(cl-6) to EN 54-11: 2001 + A1: 2005

Manual Call Points

Certificated Products		LPCB Ref. No.
FST-6657	Addressable Resettable Type A Indoor Manual Call Point (branded as FST)	1174d/02

A copy of the certificate, confirming the full scope of approval including notes relating to the superscript references in the above table, may be viewed online by clicking on the product name in the associated entry on www.RedBookLive.com

Fireguard Safety Equipment Co Ltd

Unit 11 Chancel Industrial Estate, Newhall Street, Willenhall, West Midlands WV13 1NX, United Kingdom
Tel: +44 (0)8450 751042 • Fax: +44 (0)845 2991039
E-mail: info@fireguard-uk.com • Website: www.fireguard-uk.com

Certificate No: 512f-(cl-1) to EN 54-11: 2001 + A1: 2005

Certificated Products		LPCB Ref. No.
Fireguard FG921-FTC	Conventional manual call point with flashy LED and transparent cover	512f/04

Accessories:
Fireguard FG921B1 Regular mounting base, 28mm
Fireguard FG921B2 High mounting base, 40mm
Fireguard FG921B3 High mounting base, 55m

Ancillaries:
SR01 Surface mounting box
Flush mounting plate

A copy of the certificate, confirming the full scope of approval including notes relating to the superscript references in the above table, may be viewed online by clicking on the product name in the associated entry on www.RedBookLive.com

Firesafe

10 Sanderson Way, Marton, Blackpool, Lancashire FY4 4NB, United Kingdom
Tel: 01253 699500 • Fax: 01253 699550
E-mail: sales@firesafe.co.uk • Website: www.firesafe.co.uk

Manual Call points

FIREX Protection System Technology Ltd

28-38 Desborough St, High Wycombe, Buckinghamshire, United Kingdom
Tel: 00971 653 40300 • Fax: 00971 653 40090
E-mail: QC@firexuae.com • Website: www.firexuae.com

Certificate No: 548g-(cl-3) to EN 54-11: 2001 + A1: 2005

Certificated Products		LPCB Ref. No.
FX9204E	Conventional Innovation Type A Manual Call Point, Surface and Flush Mounting	548g/07
FX9204EI	Digital Addressable Type A Manual Call Point, Surface and Flush Mounting	548g/08

A copy of the certificate, confirming the full scope of approval including notes relating to the superscript references in the above table, may be viewed online by clicking on the product name in the associated entry on www.RedBookLive.com

Frontier Safety Ltd UK

85 Great Portland Street, London, England W1W 7, United Kingdom
Tel: 00447708000050
E-mail: mikefrontiersafety@gmail.com • Website: www.frontierpumps.com

Certificate No: 1426d-(cl-5) to EN 54-11:2001 + A1:2005

Certificated Products		LPCB Ref. No.
FRN 60	Intelligent Addressable Fire Alarm Manual Call Point	1426d/01

A copy of the certificate, confirming the full scope of approval including notes relating to the superscript references in the above table, may be viewed online by clicking on the product name in the associated entry on www.RedBookLive.com

Certificate No: 991h-(cl-1) to EN 54-11:2001 + A1:2005, EN 54-17:2005

Certificated Products		LPCB Ref. No.
EC0020	Addressable Type A Indoor Re-Settable Manual Call Point with Short Circuit Isolator	991h/01

A copy of the certificate, confirming the full scope of approval including notes relating to the superscript references in the above table, may be viewed online by clicking on the product name in the associated entry on www.RedBookLive.com

Gent By Honeywell (Novar Systems Ltd)

Building 5, Carlton Park, King Edward Avenue, Narborough, Leicester LE19 0AL, United Kingdom
Tel: +44 (0)116 246 2000 • Fax: +44 (0)116 246 2300
E-mail: gent_enquiry@gent.co.uk • Website: www.gent.co.uk

Middle East Sales Enquiries:
E-mail: gent.export@honeywell.com

Certificate No: 567av-(cl-2) to EN 54-11: 2001 + A1: 2005

Certificated Products		LPCB Ref. No.
XENS-850	Indoor flush mounting conventional call point	567av/01
XENS-805	Indoor surface mounting conventional call point	567av/01
XENS-801	Indoor surface mounting conventional call point	567av/05
XENS-829	Outdoor surface mounting conventional call point	567av/09

Ancillaries
S4-34895 surface mount back box
MIM1Z003.0 Surface Mounting Base

A copy of the certificate, confirming the full scope of approval including notes relating to the superscript references in the above table, may be viewed online by clicking on the product name in the associated entry on www.RedBookLive.com

Certificate No: 010bq to EN 54-11:2001 +A1:2005 & EN 54-17:2005

Manual Call points

Certificated Products		LPCB Ref. No.
S4-34800	Analogue Addressable Type A Indoor Manual Call Point with Short Circuit Isolator (S4-34895 surface mount back box) Note: Approved for use with glass non re-settable element	042bq/01
S4-34842	Analogue Addressable Type A Indoor Manual Call Point with Short Circuit Isolator & Protective Cover (S4-34895 surface mount back box) Note: Approved for use with glass non re-settable element	042bq/02
S4-34805	Analogue Addressable Type A Indoor Manual Call Point with Short Circuit Isolator (S4-34895 surface mount back box) Note: Approved for use with plastic re-settable element	042bq/03
S4-34845	Analogue Addressable Type A Indoor Manual Call Point with Short Circuit Isolator & Protective Cover (S4-34895 surface mount back box) Note: Approved for use with plastic re-settable element	042bq/04
S4-34805-EP	Analogue Addressable Type A Outdoor Manual Call Point with Short Circuit Isolator (MIM1Z003.0 Surface Mounting Base) Note: 1. Approved for use with plastic re-settable element	042bq/05

Ancillaries
S4-34895 surface mount back box
MIM1Z003.0 Surface Mounting Base

A copy of the certificate, confirming the full scope of approval including notes relating to the superscript references in the above table, may be viewed online by clicking on the product name in the associated entry on www.RedBookLive.com

---

Gulf Alarm UK Limited

Office 32, 19-21 Crawford Street, London W1H 1PJ, United Kingdom
E-mail: info@gulfalarm.com • Website: www.gulfalarm.com

Certificate No: 1330g-(cl-5) to EN 54-11: 2001 + A1: 2005

Certificated Products		LPCB Ref. No.
GA7140	Intelligent Analogue Addressable Type A Indoor Surface Mounted Manual Call Point	1330g/01

A copy of the certificate, confirming the full scope of approval including notes relating to the superscript references in the above table, may be viewed online by clicking on the product name in the associated entry on www.RedBookLive.com

---

Gulf Security Technology Co., Ltd.

No 80 Changjiang East Road, QETDZ, Qinhuangdao, Hebei Province 066004, China
Tel: +86 0335 8502434 • Fax: +86 0335 8502532
E-mail: sales@carrier.com • Website: www.gst.com.cn

Certificate No: 548g to EN 54-11: 2001 + A1: 2005

Certificated Products		LPCB Ref. No.
DC-9204E	Conventional Innovation Manual Call Point, Surface and Flush Mounting	548g/07
DI-9204E	Digital Addressable Manual Call Point, Surface and Flush Mounting	548g/08
DC-9204E-HK	Conventional Innovation Type A Indoor Manual Call Point, Surface and Flush Mounting	548g/09
DI-9204E-HK	Digital Addressable Type A Indoor Manual Call Point, Surface and Flush Mounting	548g/10

Accessories:
D-92FC Transparent cover
A copy of the certificate, confirming the full scope of approval including notes relating to the superscript references in the above table, may be viewed online by clicking on the product name in the associated entry on www.RedBookLive.com

Hochiki Europe (UK) Limited

Grosvenor Road, Gillingham Business Park, Gillingham, Kent ME8 0SA, United Kingdom
Tel: +44 (0)1634 260133 • Fax: +44 (0)1634 260132
E-mail: info@hochikieurope.com • Website: www.hochikieurope.com

Certificate No: 164j to EN 54-11: 2001 + A1: 2005

Certificated Products		LPCB Ref. No.
SCP-DPS	Intelligent Analogue Addressable Type A Indoor Manual Call Point	164j/06
SCP-W(DPS)	Intelligent Analogue Addressable Type A Weatherproof Manual Call Point	164j/07

Accessories:
SR Surface mounting plastic box - indoor models only
SR1T Surface mounting plastic box c/w 1 terminal
SR01 Surface mount back box

CALL-105_A	Back Box for Wall Mounting
CALL-190_A	Wall Mount Plate (60mm) for semi-flush mounting
CALL-125_A	Safety Cover

A copy of the certificate, confirming the full scope of approval including notes relating to the superscript references in the above table, may be viewed online by clicking on the product name in the associated entry on www.RedBookLive.com

Certificate No: 164r to EN 54-11:2001+A1:2005, EN 54-17:2005

Certificated Products		LPCB Ref. No.
HCP-E(SCI)	Intelligent Analogue Addressable Manual Call Point with Short Circuit Isolator (SR Mounting Box)	164r/01
HCP-W(SCI)	Weatherproof Intelligent Analogue Addressable Manual Call Point with Short Circuit Isolator	164r/02
HCP-E(DPS)-SCI	Type A Indoor Dual Pole Switching Intelligent Addressable Call Point with Short Circuit Isolator (SR-1T Mounting Box)	164r/03
HCP-W(DPS)-SCI	Type A Outdoor Dual Pole Switching Intelligent Addressable Weatherproof Call Point with Short Circuit Isolator	164r/04
ICP-E(SCI)	Intelligent Analogue Addressable Type A Indoor Manual Call Point with Short Circuit Isolator (CALL-105_A, CALL-190_A, CALL-125_A)	164r/05
ICP-W(SCI)	Weatherproof Intelligent Analogue Addressable Type A Outdoor Manual Call Point with Short Circuit Isolator (CALL-105_A, CALL-190_A, CALL-125_A)	164r/06

Ancillaries

SR	Surface mounting plastic ox – Indoor models only
SR-1T	Surface mounting box with cable screen terminal
CALL-105_A	Back Box for Wall Mounting
CALL-190_A	Wall Mount Plate (60mm) for semi-flush mounting
CALL-125_A	Safety Cover

A copy of the certificate, confirming the full scope of approval including notes relating to the superscript references in the above table, may be viewed online by clicking on the product name in the associated entry on www.RedBookLive.com

Honeywell International (I) Pvt. Ltd.

Sector 36, Pace City - II, Gurgaon, Haryana 122004, India
E-mail: Amrish.Sharma@Honeywell.com • Website: https://www.systemsensor.com/

Certificate No: 550h-(cl-3) to EN 54-11:2001 + A1:2005

Manual Call Points

Certificated Products		LPCB Ref. No.
HW-MCP-GLASS	Addressable Type A Indoor Manual Call Point	550h/05

A copy of the certificate, confirming the full scope of approval including notes relating to the superscript references in the above table, may be viewed online by clicking on the product name in the associated entry on www.RedBookLive.com

Honeywell Morley-IAS by Honeywell International (I) Pvt. Ltd.

Sector 36, Pace City - II, Gurgaon, Haryana 122004, India
Tel: +91 124 4752700 • Fax: +91 124 4752750
E-mail: amit.puri@honeywell.com • Website: www.honeywell.com

Certificate No: 550h-(cl-2) to EN 54-11:2001 + A1:2005

Manual Call Points

Certificated Products		LPCB Ref. No.
HM-MCP-GLASS	Addressable Type A Indoor Manual Call Point	550h/04

A copy of the certificate, confirming the full scope of approval including notes relating to the superscript references in the above table, may be viewed online by clicking on the product name in the associated entry on www.RedBookLive.com

Certificate No: 567av-(cl-4) to EN 54-11:2001 + A1:2005

Manual Call points

Certificated Products		LPCB Ref. No.
HM-MCP-GLASS-AP	Addressable Type A Manual Call Point Note: 1. Communication software protocol (05)	567av/08

A copy of the certificate, confirming the full scope of approval including notes relating to the superscript references in the above table, may be viewed online by clicking on the product name in the associated entry on www.RedBookLive.com

Horing LIH Industrial Co Ltd

No. 35, Er-Hu Road, Hu-Hsi Village, Yuan-Shan Hsiang, Yilan Hsien 264, Taiwan ROC
Tel: +886 2 22487599 • Fax: +886 2 22407752

Certificate No: 506d to EN 54-11: 2001 + A1: 2005

Certificated Products		LPCB Ref. No.
AH-0217	Conventional Type A Indoor Surface/Flush Mounting Manual Call Point *Note: Approved for surface mount use when used with the AHMB-0217 back box*	506d/01
AH-0817	Conventional Type A outdoor Manual Call Point *Note: Approved for surface mount use when used with the AHMB-0817 back box*	506d/02

Accessories:
AHMB-0217 back box for surface mounting
AHMB-0817 back box for surface mounting
A copy of the certificate, confirming the full scope of approval including notes relating to the superscript references in the above table, may be viewed online by clicking on the product name in the associated entry on www.RedBookLive.com

Hyfire Wireless Fire Solutions Limited

Unit B12a, Holly Farm Business Park, Honiley, Warwickshire CV8 1NP, United Kingdom
Tel: +44(0)1926485282 • Fax: +44(0)1926485090
E-mail: info@hyfirewireless.co.uk • Website: www.hyfirewireless.com

Certificate No: 928h-(cl-14) to EN 54-11: 2001 + A1: 2002 and EN 54-17: 2005

Certificated Products		LPCB Ref. No.
HFI-CP-03	Altair Type A Indoor Addressable Manual Call Point with Short Circuit Isolator (ALCI-	928h/02

Certificated Products		LPCB Ref. No.
	Transparent hinged cover and FMP-303 Flush Fitting Bezel)	
HFI-CP-WP-03	Altair Type A Outdoor Addressable Manual Call Point with Short Circuit Isolator (Waterproof) (ALCI -Transparent hinged cover)	928h/03

Ancillaries
SR01 Surface mounting box
Flush mounting plate
ALCI -Transparent hinged cover
FMP-303 Flush Fitting Bezel

A copy of the certificate, confirming the full scope of approval including notes relating to the superscript references in the above table, may be viewed online by clicking on the product name in the associated entry on www.RedBookLive.com

Certificate No: 928p-(cl-5) to EN 54-11:2001+A1:2005, EN 54-25:2008

Certificated Products		LPCB Ref. No.
HFW-CP-03	Wireless Type A Indoor Addressable Manual Call Point (ALCI-Transparent hinged cover) Note: This device must be used with the following battery only: CR123A (3Vdc) Batteries	928p/02

Ancillaries
ALCI- Transparent hinged cover

A copy of the certificate, confirming the full scope of approval including notes relating to the superscript references in the above table, may be viewed online by clicking on the product name in the associated entry on www.RedBookLive.com

---

INIM Electronics S.R.L

Via Dei Lavoratori 10, Frazione Centobuchi, Monteprandone (AP) 63076, Italy
Tel: +39 0735 705007 • Fax: +39 0735 704912
E-mail: info@inim.biz • Website: www.inim.biz

Certificate No: 991h to EN 54-11:2001 + A1:2005, EN 54-17:2005

Certificated Products		LPCB Ref. No.
EC0020	Addressable Type A Indoor Re-settable Manual Call Point with Short Circuit Isolator	991h/01

A copy of the certificate, confirming the full scope of approval including notes relating to the superscript references in the above table, may be viewed online by clicking on the product name in the associated entry on www.RedBookLive.com

Certificate No: 991j to EN 54-11:2001 + A1:2005

Certificated Products		LPCB Ref. No.
IC0020	Conventional Type A Indoor Re-settable Manual Call Point	991j/01

A copy of the certificate, confirming the full scope of approval including notes relating to the superscript references in the above table, may be viewed online by clicking on the product name in the associated entry on www.RedBookLive.com

---

IOT_FIRE

33 jurong west street 41, #11-41 Singapore, 649413, Singapore
Tel: +65 65270318
E-mail: Sales@iot-fire.com • Website: www.iot-fire.com

Certificate No: 1330g-(cl-6) to EN 54-11:2001 + A1: 2005

Certificated Products		LPCB Ref. No.
SS-3688	Intelligent Analogue Addressable Type A Indoor Surface Mounted Manual Call Point	1330g/01

A copy of the certificate, confirming the full scope of approval including notes relating to the superscript references in the above table, may be viewed online by clicking on the product name in the associated entry on www.RedBookLive.com

---

KAC Alarm Company Limited

Honeywell House, Skimped Hill Lane, Bracknell, Berkshire RG12 1EB, United Kingdom
Tel: +44 (0)1527 406655 • Fax: +44 (0)1527 406677
E-mail: sales@kac.co.uk OR marketing@kac.co.uk • Website: www.kac.co.uk

Certificate No: 567av-(cl-1) to EN 54-11: 2001 + A1: 2005

Certificated Products		LPCB Ref. No.
MCP1A-Rxxxxx-yyyy-zzIS	Indoor surface/flush mounting conventional call point	567av/01
MCP1B-Rxxxxx-yyyy-zz	Indoor surface/flush mounting conventional call point	567av/02
MCP2A-Rxxxxx-yyyy-zz	Indoor surface/flush mounting conventional call point	567av/03
MCP2B-Rxxxxx-yyyy-zz	Indoor surface/flush mounting conventional call point	567av/04
MCP3A-Rxxxxx-yyyy-zz	Indoor surface/flush mounting conventional call point	567av/05
MCP4A-R000xx-yyyy-zz	Indoor surface/flush mounting conventional call point	567av/06
MCP5A-RP01wwxx-yyyy-zz	Indoor surface/flush mounting addressable call point Advanced Protocol (and System Sensor 500 series protocol)	567av/07
MCP5A-RP03wwxx-yyyy-zz	Indoor surface/flush mounting addressable call point Advanced Protocol (and Honeywell 500 series protocol) *Notes:* *1. ww (Range 0-99 odd numbers only) indicates the communication software protocol* *2. ww **X** x indicates mounting (**S** =Surface mounted, **F** =Flush mounted, **P** =Pattress mounted, **1-4** = Surface mounted with 1-4 terminals)* *3. x **G** (Glass element) x **F** (Flexible element)* *4. yyyy (Range A000 to Z999 or STCK for standard stocked product), indicates a customer account code. Only specific account codes are LPCB approved and indicated by the presence of the LPCB logo placed on the product label* *5. zz (Range 0-99) indicates customer marking options detailed on KAC controlled drawing 08/2639* *6. IS indicates the intrinsically safe version.*	567av/08
WCP1A-RxxxSx-yyyy-zz	Outdoor surface mounting conventional waterproof call point	567av/09
WCP1B-RxxxSx-yyyy-zz	Outdoor surface mounting conventional waterproof call point	567av/10
WCP2A-RxxxSx-yyyy-zz	Outdoor surface mounting conventional waterproof call point	567av/11
WCP2B-RxxxSx-yyyy-zz	Outdoor surface mounting conventional waterproof call point	567av/12
WCP3A-RxxxSx-yyyy-zz	Outdoor surface mounting conventional waterproof call point	567av/13
WCP4A-R000Sx-yyyy-zz	Outdoor surface mounting conventional waterproof call point	567av/14
WCP5A-RPwwSx-yyyy-zz	Outdoor surface mounting addressable waterproof call point Advanced Protocol (and System Sensor 500 series protocol)	567av/15
WCP5A-RPwwSx-yyyy-zz	Outdoor surface mounting addressable waterproof call point Advanced Protocol (and Honeywell 500 series protocol) *Notes:* *1. ww (Range 0-99 odd numbers only) indicates the communication software protocol* *2. S **G** (Glass element) S **F** (Flexible element)* *3. yyyy (Range A000 to Z999 or STCK for standard stocked product), indicates a customer account code. Only specific account codes are LPCB approved and indicated by the presence of the LPCB logo placed on the product label* *4. zz (Range 0-99) indicates customer marking options detailed on KAC controlled drawing 08/2639* *5. IS indicates the intrinsically safe version.*	567av/16
MCP1A-Rxxxxx-yyyy-zz	IIndoor surface/flush mounting conventional call point	567av/01
MCP1B-Rxxxxx-yyyy-zzIS	Indoor surface/flush mounting conventional call point	567av/02
MCP2A-Rxxxxx-yyyy-zzIS	Indoor surface/flush mounting conventional call point	567av/03
MCP2B-Rxxxxx-yyyy-zzIS	Indoor surface/flush mounting conventional call point *Notes:* *1. **XXX** xx indicates the series resistor value **039** xx (lowest 39 **4K7** xx (highest 4.7 k* *2. xxx **X** x indicates mounting (**S** =Surface mounted, **F** =Flush mounted,*	567av/04

Certificated Products		LPCB Ref. No.
	P *=Pattress mounted,* ***1-4*** *= Surface mounted with 1-4 terminals* *3. xxxx* ***G*** *(Glass element) xxxx* ***F*** *(Flexible element)* *4. yyyy (Range A000 to Z999 or STCK for standard stocked product), indicates a customer account code. Only specific account codes are LPCB approved and indicated by the presence of the LPCB logo placed on the product label* *5. zz (Range 0-99) indicates customer marking options detailed on KAC controlled drawing 08/2639* *6. IS indicates the intrinsically safe version.*	
MCP3A-Rxxxxx-yyyy-zzIS	Indoor surface/flush mounting conventional call point *Notes:* *1.* ***XXX*** *xx indicates the electrical configuration (* ***000*** *xx = no resistor,* ***C01*** *xx = single pole changeover connections)* *2. xxx* ***X*** *x indicates mounting (* ***S*** *=Surface mounted,* ***F*** *=Flush mounted,* ***P*** *=Pattress mounted,* ***1-4*** *= Surface mounted with 1-4 terminals* *3. xxxx* ***G*** *(Glass element) xxxx* ***F*** *(Flexible element)* *4. yyyy (Range A000 to Z999 or STCK for standard stocked product), indicates a customer account code. Only specific account codes are LPCB approved and indicated by the presence of the LPCB logo placed on the product label* *5. zz (Range 0-99) indicates customer marking options detailed on KAC controlled drawing 08/2639* *6. IS indicates the intrinsically safe version.*	567av/05
MCP4A-R000xx-yyyy-zzIS	Indoor surface/flush mounting conventional call point *Notes:* *1.* ***X*** *x indicates mounting (* ***S*** *=Surface mounted,* ***F*** *=Flush mounted,* ***P*** *=Pattress mounted,* ***1-4*** *= Surface mounted with 1-4 terminals)* *2. x* ***G*** *(Glass element) x* ***F*** *(Flexible element)* *3. yyyy (Range A000 to Z999 or STCK for standard stocked product), indicates a customeraccount code. Only specific account codes are LPCB approved and indicated by the* *presence of the LPCB logo placed on the product label* *4. zz (Range 0-99) indicates customer marking options detailed on KAC controlled drawing 08/2639* *5. IS indicates the intrinsically safe version.*	567av/06
MCP5A-RP07xx-zz	Indoor surface/flush mounting addressable call point (Labor Strauss protocol) Advanced Protocol (and Labor Strauss protocol) *Notes:* *1.* ***X*** *x indicates mounting (* ***S*** *=Surface mounted,* ***F*** *=Flush mounted,* ***P*** *=Pattress mounted,* ***1-4*** *= Surface mounted with 1-4 terminals)* *2. x* ***G*** *(Glass element) x* ***F*** *(Flexible element)* *3. zz (Range 0-99) indicates customer marking options detailed on KAC controlled drawing 08/2639.*	567av/17
WCP5A-RP07Sx-zz	Outdoor surface mounting addressable call point Advanced Protocol (and Labor Strauss protocol) *Notes:* *1. S* ***G*** *(Glass element) S* ***F*** *(Flexible element) 2. zz (Range 0-99) indicates customer marking options detailed on KAC controlled drawing 08/2639.*	567av/18
WCP1A-RxxxSx-yyyy-zzIS	Outdoor surface mounting conventional waterproof call point	567av/09
WCP1B-RxxxSx-yyyy-zzIS	Outdoor surface mounting conventional waterproof call point	567av/10
WCP2A-RxxxSx-yyyy-zzIS	Outdoor surface mounting conventional waterproof call poin	567av/11
WCP2B-RxxxSx-yyyy-zzIS	Outdoor surface mounting conventional waterproof call point *Notes:* *1.* ***XXX*** *xx indicates the series resistor value* ***039*** *xx (lowest 39* ***4K7*** *xx (highest 4.7 k* *2. xxxS* ***G*** *(Glass element) xxxS* ***F*** *(Flexible element)* *3. yyyy (Range A000 to Z999 or STCK for standard stocked product), indicates a customer account code.* *Only specific account codes are LPCB approved and indicated by the presence of the LPCB logo placed on the product label* *4. zz (Range 0-99) indicates customer marking options detailed on KAC controlled drawing 08/2639* *5. IS indicates the intrinsically safe version.*	567av/12
WCP3A-RxxxSx-yyyy-zzIS	Outdoor surface mounting conventional waterproof call point *Notes:* *1.* ***XXX*** *Sx indicates the electrical configuration (* ***000*** *Sx = no resistor,* ***C01*** *Sx = single pole changeover connections)* *2. xxxS* ***G*** *(Glass element) xxxS* ***F*** *(Flexible element)*	567av/13

Certificated Products		LPCB Ref. No.
	3. yyyy (Range A000 to Z999 or STCK for standard stocked product), indicates a customer account code. *Only specific account codes are LPCB approved and indicated by the presence of the LPCB logo placed on the product label* *4. zz (Range 0-99) indicates customer marking options detailed on KAC controlled drawing 08/2639* *5. IS indicates the intrinsically safe version.*	
WCP4A-R000Sx-yyyy-zzIS	Outdoor surface mounting conventional waterproof call point *Notes:* *1. S **G** (Glass element) S **F** (Flexible element)* *2. yyyy (Range A000 to Z999 or STCK for standard stocked product),indicates a customer account code. Only specific account codes are LPCB approved and indicated by the presence of the LPCB logo placed on the product label* *3. zz (Range 0-99) indicates customer marking options detailed on KAC controlled drawing 08/2639* *4. IS indicates the intrinsically safe version.*	567av/14
MCP6H-RC01xx-yyyy-zz	Indoor surface/flush mounting conventional call point *Notes:* *1. RC01 **X** x indicates mounting (**S** =Surface mounted, **F** =Flush mounted, **P** =Pattress mounted, **1-4** = Surface mounted with 1-4 terminals)* *2. RC01x **G** (Glass element) RC01x **F** (Flexible element)* *3. yyyy (Range A000 to Z999 or STCK for standard stocked product), indicates a customer account code. Only specific account codes are LPCB approved and indicated by the presence of the LPCB logo placed on the product label* *4. zz (Range 0-99) indicates customer marking options detailed on KAC controlled drawing 08/2639.*	567av/19
MCP6V-RC01xx-yyyy-zz	Indoor surface/flush mounting conventional call point *Notes:* *1. RC01 **X** x indicates mounting (**S** =Surface mounted, **F** =Flush mounted, **P** =Pattress mounted, **1-4** = Surface mounted with 1-4 terminals)* *2. RC01x **G** (Glass element) RC01x **F** (Flexible element)* *3. yyyy (Range A000 to Z999 or STCK for standard stocked product), indicates a customer account code. Only specific account codes are LPCB approved and indicated by the presence of the LPCB logo placed on the product label* *4. zz (Range 0-99) indicates customer marking options detailed on KAC controlled drawing 08/2639.*	567av/20

Accessories:

SR	*Surface mounting plastic box(1)*
SR1T	*Surface mounting plastic box c/w 1 terminal(1)*
SR2T	*Surface mounting plastic box c/w 2 terminals(1)*
SR3T	*Surface mounting plastic box c/w 3 terminals(1)*
SR4T	*Surface mounting plastic box c/w 4 terminals(1)*
ETT	*European Terminal Tray ETT1, 2 & 3(1)*
L	*Earth Continuity Link(1)*
M141W	*Spacer Piece(1)*
PTR	*Pattress PTR, PTRE, PTR2T, PTR2TE, PTR3T & PTR3TE(1)*
C	*Hinged Cover(2)*

Notes:
1. *The above accessories are only supplied with MCP 1-7 Series manual call points*
2. *The hinged cover is only supplied with the MCP & WCP Series manual call points optionally indicated by the presence of 'C' at the end of the model number.*

A copy of the certificate, confirming the full scope of approval including notes relating to the superscript references in the above table, may be viewed online by clicking on the product name in the associated entry on www.RedBookLive.com

Certificate No: 567x-(cl-1) to EN 54-11: 2001 + A1: 2005 and EN 54-17: 2005

Manual Call points

Certificated Products		LPCB Ref. No.
MCP5A-RPwwxx-yyyy-zz	Indoor/Outdoor surface/flush mounting addressable call point with short circuit isolator Advanced Protocol (and System Sensor 500 series protocol)	567x/06
MCP5A-RPwwxx-yyyy-zz	Indoor/Outdoor surface/flush mounting addressable call point with short circuit isolator Advanced Protocol (and Honeywell 500 series protocol)	567x/07

Certificated Products		LPCB Ref. No.
	Notes: *1. ww (Range 0-99 even numbers only) indicates the communication software protocol* *2. ww **X** x indicates mounting (**S** =Surface mounted, **F** =Flush mounted, **P** =Pattress mounted, **1-4** = Surface mounted with 1-4 terminals)* *3. x **G** (Glass element) x **F** (Flexible element)* *4. yyyy (Range A000 to Z999 or STCK for standard stocked product), indicates a customer account code. Only specific account codes are LPCB approved and indicated by the presence of the LPCB logo placed on the product label* *5. zz (Range 0-99) indicates customer marking options detailed on KAC controlled drawing 08/2639.*	
WCP5A-RPwwSx-yyyy-zz	Outdoor surface mounting addressable waterproof call point with short circuit isolator Advanced Protocol (and System Sensor 500 series protocol)	567x/08
WCP5A-RPwwSx-yyyy-zz	Outdoor surface mounting addressable waterproof call point with short circuit isolator Advanced Protocol (and Honeywell 500 series protocol) *Notes:* *1. ww (Range 0-99 even numbers only) indicates the communication software protocol* *2. S **G** (Glass element) S **F** (Flexible element)* *3. yyyy (Range A000 to Z999 or STCK for standard stocked product), indicates a customer account code. Only specific account codes are LPCB approved and indicated by the presence of the LPCB logo placed on the product label* *4. zz (Range 0-99) indicates customer marking options detailed on KAC controlled drawing 08/2639.*	567x/09
MCP5A-RP08xx-zz	Indoor surface/flush mounting addressable call point with short circuit isolator Advanced Protocol (and Labor Strauss protocol) *Notes:* *1. **X** x indicates mounting (**S** =Surface mounted, **F** =Flush mounted, **P** =Pattress mounted, **1-4** = Surface mounted with 1-4 terminals)* *2. x **G** (Glass element) x **F** (Flexible element)* *3. zz (Range 0-99) indicates customer marking options detailed on KAC controlled drawing 08/2639.*	567x/10
WCP5A-RP08Sx-zz	Outdoor surface mounting addressable call point with short circuit isolator Advanced Protocol (and Labor Strauss protocol) *Notes:* *1. S **G** (Glass element) S **F** (Flexible element)* *2. zz (Range 0-99) indicates customer marking options detailed on KAC controlled drawing 08/2639.*	567x/11

Accessories:

SR	Surface mounting plastic box[1]
SR1T	Surface mounting plastic box c/w 1 terminal[1]
SR2T	Surface mounting plastic box c/w 2 terminal[1]
SR3T	Surface mounting plastic box c/w 3 terminal[1]
SR4T	Surface mounting plastic box c/w 4 terminal[1]
ETT	European Terminal Tray ETT 1, 2 & 3[1]
L	Earth Continuity Link[1]
M141W	Spacer Piece[1]
PTR	Pattress PTR, PTRE, PTR2T, PTR2TE, PTR3T & PTR3TE[1]
C	Hinged Cover[2]

Notes:

1. *The above accessories are only supplied with MCP Series manual call points*
2. *The hinged cover is supplied with the MCP & WCP Series manual call points optionally indicated by the present of 'C' at the end of the model number.*

A copy of the certificate, confirming the full scope of approval including notes relating to the superscript references in the above table, may be viewed online by clicking on the product name in the associated entry on www.RedBookLive.com

Certificate No: 550h to EN54-11: 2001 + A1: 2005

Certificated Products		LPCB Ref. No.
MCP2A-R470FF/01	Conventional Type A Indoor Flush Mounted Flexible Element Manual Call Point	550h/02
MCP2A-R470SF/01	Conventional Type A Indoor Surface Mounted Flexible Element Manual Call Point	550h/03

Kentec Electronics Limited

Units 25-27, Fawkes Avenue, Questor, Dartford, Kent DA1 1JQ, United Kingdom
Tel: +44 (0)1322 222121 • Fax: +44 (0)1322 291794
E-mail: sales@kentec.co.uk • Website: www.kentec.co.uk

Certificate No: 567x-(cl-5) to EN 54-11:2001 + A1:2005 & EN 54-17:2005

Manual Call points

Certificated Products		LPCB Ref. No.
KS-CALL-POINT-SCI	Intelligent Analogue Addressable Type A Indoor Manual Call Point with Short Circuit Isolator (SR Mounting Box)	567x/14

Ancillaries

SR Surface mounting plastic box(1)

Notes:

1. The above accessories are only supplied with MCP Series manual call points

A copy of the certificate, confirming the full scope of approval including notes relating to the superscript references in the above table, may be viewed online by clicking on the product name in the associated entry on www.RedBookLive.com

Ketton Power & Safety Ltd

82A James Carter Road, Mildenhall Industrial Estate, Mildenhall, Bury St Edmonds, Suffolk IP28 7DE, United Kingdom
Tel: +905363978385
E-mail: Info@kettonfire.co.uk

Certificate No: 1450e-(cl-4) to EN 54-11:2001+A1:2005

Certificated Products		LPCB Ref. No.
KET-MCP-180	Indoor Analogue Addressable Type A Re-settable Manual Call Point	1450e/01

A copy of the certificate, confirming the full scope of approval including notes relating to the superscript references in the above table, may be viewed online by clicking on the product name in the associated entry on www.RedBookLive.com

KMW Systems S.R.L.

Str.Sambetei, Nr. 6 Iasi, , Romania
Tel: 0040232247288
E-mail: marius.gavriluta@kmw.ro

Certificate No: 1174d-(cl-7) to EN 54-11:2001 + A1:2005

Manual Call points

Certificated Products		LPCB Ref. No.
KM-FC5300	Conventional Resettable Type A Indoor Manual Call Point	1174d/01
KM-FA6300	Addressable Resettable Type A Indoor Manual Call Point	1174d/02

A copy of the certificate, confirming the full scope of approval including notes relating to the superscript references in the above table, may be viewed online by clicking on the product name in the associated entry on www.RedBookLive.com

Labor Strauss Sicherungsanlagenbau GmbH

Wiegelestrasse 36, A-1231 Vienna, Austria
Tel: +43 1 52114-44 • Fax: +43 1 52114-27
E-mail: andreas.schumacher@lst.at • Website: www.laborstrauss.com

Certificate No: 928h-(cl-6) to EN 54-11: 2001 + A1: 2002 and EN 54-17: 2005

Certificated Products		LPCB Ref. No.
FI750/MCP	Altair Type A Indoor Addressable Manual Call Point with Short Circuit Isolator (ALCI-Transparent hinged cover and FMP-303 Flush Fitting Bezel)	928h/02
FI750/MCPIP67	Altair Type A Outdoor Addressable Manual Call Point with Short Circuit Isolator (Waterproof) (ALCI -Transparent hinged cover)	928h/03

Ancillaries
SR01 Surface mounting box
Flush mounting plate
ALCI -Transparent hinged cover
FMP-303 Flush Fitting Bezel

A copy of the certificate, confirming the full scope of approval including notes relating to the superscript references in the above table, may be viewed online by clicking on the product name in the associated entry on www.RedBookLive.com

Certificate No: 928p-(cl-10) to EN 54-11:2001+A1:2005

Certificated Products		LPCB Ref. No.
FI720/RF/MCP	Wireless Type A Indoor Addressable Manual Call Point (ALCI-Transparent hinged cover) Note: This device must be used with the following battery only: CR123A (3Vdc) Batteries	928p/02

Ancillaries
ALCI -Transparent hinged cover

A copy of the certificate, confirming the full scope of approval including notes relating to the superscript references in the above table, may be viewed online by clicking on the product name in the associated entry on www.RedBookLive.com

Lichfield Fire & Safety Equipment Co. Ltd

Unit 8, Calibre Industrial Park, Laches Close, Four Ashes, Wolverhampton WV10 7DZ, United Kingdom
Tel: +44 (0) 1902 798 706 • Fax: +44 (0) 1902 798 679
E-mail: info@lifeco-uk.com • Website: www.lifeco-uk.com

Certificate No: 1330g-(cl-7) to EN 54-11:2001 + A1:2005

Certificated Products		LPCB Ref. No.
LF-X5140	Intelligent Analogue Addressable Type A Indoor Surface Mounted Manual Call Point	1330g/01

A copy of the certificate, confirming the full scope of approval including notes relating to the superscript references in the above table, may be viewed online by clicking on the product name in the associated entry on www.RedBookLive.com

Mavili Elektronik Ticaret Ve Sanayi A.S.

Serifali Mah, Kutup Sok, No: 27:, 1-2-4 Ümraniye, Istanbul TR 34775, Turkey
Tel: +90 216 4664 505 • Fax: +90 216 4664 510
E-mail: mavili@mavili.com.tr • Website: www.mavili.com.tr

Certificate No: 926h to EN 54-11:2001 +A1:2005

Manual Call Points

Certificated Products		LPCB Ref. No.
ML-2710	Conventional Type A Indoor Manual Call Point, Resettable	926h/01
ML-1710	Maxlogic Intelligent Analogue Addressable Type A Indoor Resettable Manual Call Point	926h/02

A copy of the certificate, confirming the full scope of approval including notes relating to the superscript references in the above table, may be viewed online by clicking on the product name in the associated entry on www.RedBookLive.com

Certificate No: 926k to EN 54-11:2001 + A1:2005, EN 54-17:2005

Certificated Products		LPCB Ref. No.
ML-1710.SCI	Maxlogic Intelligent Analogue Addressable Type A Indoor Resettable Manual Call Point with Short Circuit Isolator	926k/01

A copy of the certificate, confirming the full scope of approval including notes relating to the superscript references in the above table, may be viewed online by clicking on the product name in the associated entry on www.RedBookLive.com

Morley-IAS by Honeywell, Pittway Tecnologica Srl

Via Caboto 19/3, Trieste 34147, Italy
Tel: +44 (0)1444 230300 • Fax: +44 (0)1444 230888
E-mail: sales@morleyias.co.uk • Website: www.morley-ias.co.uk

Certificate No: 567x-(cl-2) to EN 54-11: 2001 + A1: 2005 and EN 54-17: 2005

Certificated Products		LPCB Ref. No.
MI-MCP-xxxx-I	Indoor surface/flush mounting addressable call point with short circuit isolator. Advanced Protocol Honeywell 500 series protocol) *Note:* *1. xxxxx = **GLASS** (Glass element) or **FLEX**_ (Flexible element)*	567x/07
MI-WCP-R/I/Sx	Outdoor surface mounting addressable waterproof call point with short circuit isolator Advanced Protocol (and Honeywell 500 series protocol) *Note:* *1. Sx = S **G** (Glass element) S **F** (Flexible element)*	567x/09

Accessories:

SR	Surface mounting plastic box(1)
SR1T	Surface mounting plastic box c/w 1 terminal(1)
SR2T	Surface mounting plastic box c/w 2 terminal(1)
SR3T	Surface mounting plastic box c/w 3 terminal(1)
SR4T	Surface mounting plastic box c/w 4 terminal(1)
ETT	European Terminal Tray ETT 1, 2 & 3(1)
L	Earth Continuity Link(1)
BZR/1	Bazel Type 1(1)
BZR/2	Bazel Type 2(1)
BZR/3	Bazel Type 3(1)
M141W	Spacer Piece(1)
PTR	Pattress PTR, PTRE, PTR2T, PTR2TE, PTR3T & PTR3TE(1)
C	Hinged Cover(2)

Notes:

1. *The above accessories are only supplied with MI-MCP-xxxxx & MI-MCP-xxxxx-I manual call point*
2. *The hinged cover may be supplied with all models and is optionally indicated by the presence of 'C' at the end of the model number.*

A copy of the certificate, confirming the full scope of approval including notes relating to the superscript references in the above table, may be viewed online by clicking on the product name in the associated entry on www.RedBookLive.com

Certificate No: 567av to EN 54-11: 2001 + A1: 2005

Manual Call points

Certificated Products		LPCB Ref. No.
MI-MCP-xxxxx	Indoor surface/flush mounting addressable call point Advanced Protocol (and Honeywell 500 series protocol) Notes: 1. xxxxx = **GLASS** (Glass element) **FLEX_** (Flexible element)	567av/08
MI-WCP-R/Sx	Outdoor surface mounting addressable waterproof call point Advanced Protocol (and Honeywell 500 series protocol) Notes: 1. Sx = S **G** (Glass element) S **F** (Flexible element)	567av/16

Multron Systems Pte Ltd

217 Kallang Bahru #02-00, Multron Building, Singapore 339 347, Singapore
Tel: +65 6743 2555 / 6395 6868 • Fax: +65 6743 2777 / 6395 6869
E-mail: info@multron.com • Website: www.multron.com

Certificate No: 1330g-(cl-3) to EN 54-11:2001 + A1: 2005

Certificated Products		LPCB Ref. No.
MX140	Intelligent Analogue Addressable Type A Indoor Surface Mounted Manual Call Point	1330g/01

A copy of the certificate, confirming the full scope of approval including notes relating to the superscript references in the above table, may be viewed online by clicking on the product name in the associated entry on www.RedBookLive.com

Notifier by Honeywell

Sector 36, Pace City II, Gurgaon-122004, Haryana, India
Tel: +91-124 4752700 ext 2712
E-mail: amit.puri@honeywell.com

Certificate No: 550h-(cl-1) to EN 54-11: 2001 + A1: 2005

Manual Call points

Certificated Products		LPCB Ref. No.
NFX-MCP-GLASS	Addressable Type A Manual Call Point	550h/01

A copy of the certificate, confirming the full scope of approval including notes relating to the superscript references in the above table, may be viewed online by clicking on the product name in the associated entry on www.RedBookLive.com

Notifier by Honeywell, Pittway Tecnologica Srl

Via Caboto 19/3, Trieste 34147, Italy
Tel: +44 (0)1444 230300 • Fax: +44 (0)1444 230888
E-mail: sales@notifiersystems.co.uk • Website: www.notifierfiresystems.co.uk

Certificate No: 567x-(cl-3) to EN 54-11: 2001 + A1: 2005 and EN 54-17: 2005

Manual Call points

Certificated Products		LPCB Ref. No.
M700KACI-xx	Indoor surface/flush mounting addressable call point with short circuit isolator Advanced Protocol (and System Sensor 500 series protocol) *Notes:* *1. xx = **S** x (Surface mounted) **F** x (Flush mounted)* *2. xx = x **G** (Glass element) x **F** (Flexible element)* *3. The above manual call point is approved with three micro-switches (Honeywell ZM10E50A01, Otehall 294/20/150/G and Burgess X4G31051BBAQ)*	567x/06
M700WCP-R/I/Sx	Outdoor surface mounting addressable waterproof call point with short circuit isolator Advanced Protocol System Sensor 500 series protocol) *Note:* *1. **S** x = S **G** (Glass Element) S **F** (Flexible Element)*	567x/08

Accessories:

SR	Surface mounting plastic box(1)
SR1T	Surface mounting plastic box c/w 1 terminal(1)
SR2T	Surface mounting plastic box c/w 2 terminal(1)
SR3T	Surface mounting plastic box c/w 3 terminal(1)
SR4T	Surface mounting plastic box c/w 4 terminal(1)
ETT	European Terminal Tray ETT 1, 2 & 3(1)
L	Earth Continuity Link(1)
BZR/1	Bazel Type 1(1)
BZR/2	Bazel Type 2(1)
BZR/3	Bazel Type 3(1)
M141W	Spacer Piece(1)
PTR	Pattress PTR, PTRE, PTR2T, PTR2TE, PTR3T & PTR3TE(1)
C	Hinged Cover(2)

Notes:
1. *The above accessories are only supplied with M700KAC-xx & M700KACI-xx manual call points*
2. *The hinged cover may be supplied with all models and is optionally indicated by the precence of 'C' at the end of the model number.*

A copy of the certificate, confirming the full scope of approval including notes relating to the superscript references in the above table, may be viewed online by clicking on the product name in the associated entry on www.RedBookLive.com

Certificate No: 567av to EN 54-11: 2001 + A1: 2005

Manual Call points

Certificated Products		LPCB Ref. No.
M700KAC-xx	Indoor surface/flush mounting addressable call point Advanced Protocol (and System Sensor 500 series protocol) Notes: 1. xx = **S** x (Surface mounted) **F** x (Flush mounted) 2. xx = x **G** (Glass element) x **F** (Flexible element)	567av/07

NOTOFIRE PVT LTD

C-146, Ground Floor, Block C, Sector 63, NOIDA, Gautam Buddha Nagar,, Uttar Pradesh 201301, India
Tel: +919999991525
E-mail: indianotofire@gmail.com • Website: www.no2fire.com

Certificate No: 1450e-(cl-2) to EN 54-11: 2001 + A1: 2005

Certificated Products		LPCB Ref. No.
NF5264	Indoor Analogue Addressable Type A Re-settable Manual Call Point	1450e/01

A copy of the certificate, confirming the full scope of approval including notes relating to the superscript references in the above table, may be viewed online by clicking on the product name in the associated entry on www.RedBookLive.com

PT.Servvo Fire Indonesia

Pusat Niaga Roxy Mas Blok D5/17,, Jl.K.H. Hasyim Ashari Blok 125, Cideng, Gambir, Jakarta Pusat, DKI Jakarta Raya 10150, Indonesia
Tel: +62216330330
E-mail: info@servvo.com Info@servvo.co.id • Website: www.servvo.com or www.servvo.co.id

Certificate No: 1426d-(cl-4) to EN 54-11: 2001 + A1: 2005

Certificated Products		LPCB Ref. No.
SMC 237	Addressable Manual Call Point	1426d/01

A copy of the certificate, confirming the full scope of approval including notes relating to the superscript references in the above table, may be viewed online by clicking on the product name in the associated entry on www.RedBookLive.com

Safety Technology International Limited

Taylor House, 34 Sherwood Road, Aston Fields Industrial estate, Bromsgrove, Worcestershire B60 3DR, United Kingdom
Tel: +44 (0)1527 520999 • Fax: +44 (0)1527 501999
E-mail: sales@sti-europe.com • Website: www.sti-europe.com

Certificate No: 653a to EN 54-11: 2001 + A1: 2005

Certificated Products		LPCB Ref. No.
Series 01	Conventional Type A re-settable indoor flush/surface mounted manual call point *Notes:* *1. Flush mount approved model RP-RF-01 (M200)* *2. Surface mount approved model RP-RS-01 (M200 + M125)* *3. Surface mount approved model RP-RS1-01 (M223)* *4. Flush mount approved model RP-RF2-01 (M200/V2)* *5. Dual mount approved model RP-RD2-01 (M200/V2 + M223/V2)* *6. Surface mount approved model RP-RS2-01 (M223/V2)* *7. Approved colour, red only*	653a/01

Accessories
M200 Wall Plate
M125 Back Box
M223 Back Box
M200/V2 Wall Plate
M223/V2 Back Box

A copy of the certificate, confirming the full scope of approval including notes relating to the superscript references in the above table, may be viewed online by clicking on the product name in the associated entry on www.RedBookLive.com

Schneider Electric Fire & Security Oy

Sokerilinnantie 11C, 02600, Espoo, Finland
Tel: +358 10 446 511 • Fax: +358 10 446 5103
E-mail: FI-FireSecurity-Info@schneider-electric.com • Website: www.schneider-electric.com

Certificate No: 010bh-(cl-3) to EN 54-11:2001 + A1:2005, EN 54-17:2005

Certificated Products		LPCB Ref. No.
FFS06723706	Intelligent Addressable Manual Call Point with Short Circuit Isolator (43785-278 Mounting Bracket and 43785-279 Back Box) *43785-278 Mounting Bracket* *43785-279 Back Box*	010bh/01
ECE221-I	ESMI Essentia Manual Call Point ECE221-I	010bh/01

Certificated Products		LPCB Ref. No.
	(43785-278 Mounting Bracket and 43785-279 Back Box)	

A copy of the certificate, confirming the full scope of approval including notes relating to the superscript references in the above table, may be viewed online by clicking on the product name in the associated entry on www.RedBookLive.com

---

Shenzhen HTI Sanjiang Electronics CO., Ltd

3/F., Guangcai Xintiandi Mansion, Nanshan Road, Nanshan District, Shenzhen, Guangdong 51804, China
Tel: +86 755 26521071
E-mail: shuxian.wei@fhsjdz.com

Certificate No: 1426d-(cl-2) to EN 54-11: 2001 + A1: 2005

Certificated Products		LPCB Ref. No.
A9060T	Addressable Manual Call Point	1426d/01

A copy of the certificate, confirming the full scope of approval including notes relating to the superscript references in the above table, may be viewed online by clicking on the product name in the associated entry on www.RedBookLive.com

---

Shield Fire, Safety & Security Ltd

Genesis, Unit 3, Endeavour Drive, Basildon SS14 3WF, United Kingdom
Tel: 01708 377 731 • Fax: 01708 347 637
E-mail: shielduk@shieldglobal.com • Website: www.shieldglobal.com

Certificate No: 928p-(cl-11) to EN 54-11:2001 + A1: 2005, EN 54-25: 2008

Certificated Products		LPCB Ref. No.
SW-5500	Wireless Type A Indoor Addressable Manual Call Point (ALCI-Transparent hinged cover) *Note:* *This device must be used with the following battery only:* *CR123A (3Vdc) Batteries*	928p/02

Ancillaries

SR01 Surface Mount Back Box
ALCI- Transparent hinged cover

A copy of the certificate, confirming the full scope of approval including notes relating to the superscript references in the above table, may be viewed online by clicking on the product name in the associated entry on www.RedBookLive.com

---

SHIELD FIRE, SAFETY AND SECURITY LIMITED

Unit 3 Endeavour Drive, Basildon, Essex SS14 3WF, United Kingdom
Tel: +44 1708 377731 • Fax: +44 1708 347637
E-mail: shielduk@shieldglobal.com • Website: www.shieldglobal.com

Certificate No: 010bh-(cl-2) to EN 54-11:2001 + A1: 2005, EN 54-17:2005

Manual Call points

Certificated Products		LPCB Ref. No.
SEN-A4061	Intelligent Addressable Manual Call Point with Short Circuit Isolator	010bh/01

A copy of the certificate, confirming the full scope of approval including notes relating to the superscript references in the above table, may be viewed online by clicking on the product name in the associated entry on www.RedBookLive.com

Certificate No: 010n-(cl-3) to EN 54-11:2001 + A1:2005

Manual Call points

Certificated Products		LPCB Ref. No.
SIL-A7033	SIL I.S. Manual Call Point	010n/09

A copy of the certificate, confirming the full scope of approval including notes relating to the superscript references in the above table, may be viewed online by clicking on the product name in the associated entry on www.RedBookLive.com

Certificate No: 010w-(cl-3) to EN 54-11:2001 + A1:2005 & EN 54-17:2005

Manual Call points

Certificated Products		LPCB Ref. No.
SIL-A7011	SIL Indoor Manual Call Point with Isolator	010w/01
SIL-A7023	SIL Waterproof Manual Call Point with Isolator	010w/06

A copy of the certificate, confirming the full scope of approval including notes relating to the superscript references in the above table, may be viewed online by clicking on the product name in the associated entry on www.RedBookLive.com

---

SHIELD FIRE, SAFETY AND SECURITY LTD

Unit 3 Endeavour Drive, Basildon, Essex SS14 3WF, United Kingdom
Tel: +44 207 712 1610 • Fax: +44 207 712 1578
E-mail: shielduk@shieldglobal.com • Website: www.shieldglobal.com

Certificate No: 548g-(cl-4) to EN 54-11: 2001 + A1: 2005

Siemens Switzerland Ltd

Theilerstrasse 1a, , CH-6300 Zug, Switzerland
Website: www.siemens.com

Certificate No: 126ap to EN 54-11:2001 + A1:2005, EN 54-17:2005

Certificated Products		LPCB Ref. No.
FDM225-RP	Digital addressable Type A Indoor Manual Call Point with Resettable Plastic Element and incorporating a Short Circuit Isolator (FDMH295-R, FDMH295-S and FDMC295)	126ap/01
FDM225-RG	Digital Addressable Type A Indoor Manual Call Point with Non Re-Settable Glass Element and incorporating a Short Circuit Isolator (FDMH295-R, FDMH295-S and FDMC295)	126ap/02
FDM226-RP	Digital Addressable Type A Indoor/Outdoor Manual Call Point with Re-Settable Plastic Element and incorporating a Short Circuit Isolator (Including Housing Base with fixing attachments and FDMC295)	126ap/03
FDM226-RG	Digital Addressable Type A Indoor/Outdoor Manual Call Point with Non Re-Settable Glass Element and incorporating a Short Circuit Isolator (Including Housing Base with fixing attachments and FDMC295)	126ap/04
FDM225-RP (F)	Digital Addressable Type A Indoor Manual Call Point with Re-Settable Plastic Element and incorporating a Short Circuit Isolator; French Labelling on Re-Settable Plastic Element (FDMH295-R, FDMH295-S and FDMC295)	126ap/10
FDM225-RG (F)	Digital Addressable Type A Indoor Manual Call Point with Non Re-Settable Glass Element and incorporating a Short Circuit Isolator; French Labelling on Non-Re-Settable Glass Element (FDMH295-R, FDMH295-S and FDMC295)	126ap/11
FDM365-RP	Addressable Manual Call Point, Type A, with a Re-Settable Plastic Element, and Short Circuit Isolator (FDMH295-R, FDMH295-S and FDMC295)	126ap/12

Bases:
FDMH295-R Housing Base

FDMH295-S	Housing Base with Holes and Sockets

Accessories:

FDMC295	Transparent Polycarbonate Protective Cover
DMZ1197-AC	Protective Cover
FDMC291	Protective cover
FDMK231	Key
FDMK291	Key with cover
DMZ1197-AD	Seal for wet areas
DMZ1195Key	
DMZ1197-AC	Protective Cover
FDME231	Switching unit
FDME231-FR	Switching unit (French Variant)
FDMH231-S-R	Housing base

A copy of the certificate, confirming the full scope of approval including notes relating to the superscript references in the above table, may be viewed online by clicking on the product name in the associated entry on www.RedBookLive.com

Certificate No: 126as to EN 54-11:2001 + A1:2005

Certificated Products		**LPCB Ref. No.**
FDM1101-RG	Collective Type A Indoor / Outdoor Manual Call Point with Non-Resettable Glass Element (**FDMC295)**	126as/01
FDM1101-RP	Collective Type A Indoor / Outdoor Manual Call Point with Resettable Plastic Element (**FDMC295)**	126as/02
FDM1101A-RG	Conventional Type A Indoor / Outdoor Manual Call Point with Non-Resettable Glass Element (**FDMC295)**	126as/03
FDM1101A-RP	Conventional Type A Indoor / Outdoor Manual Call Point with Resettable Plastic Element (**FDMC295)**	126as/04
FDM1101-RG(F)	Collective Type A Indoor / Outdoor Manual Call Point with Non-Resettable Glass Element; French Labelling on Non-Resettable Glass Element (**FDMC295)**	126as/05
FDM1101-RP(F)	Collective Type A Indoor / Outdoor Manual Call Point with Resettable Plastic Element; French Labelling on Resettable Plastic Element (**FDMC295)**	126as/06

Accessories:
FDMC295Transparent Polycarbonate Protective Cover

A copy of the certificate, confirming the full scope of approval including notes relating to the superscript references in the above table, may be viewed online by clicking on the product name in the associated entry on www.RedBookLive.com

Certificate No: 531j-(cl-1) to EN 54-11:2001 + A1:2005

Certificated Products		**LPCB Ref. No.**
DM1104	Conventional Type A Indoor and Outdoor Manual Call Point	531j/02
DM1104H	Conventional Type A Indoor and Outdoor Manual Call Point (DMZ1197-AC)	531j/03

Accessories
DMZ1197-AC Protective Cover

A copy of the certificate, confirming the full scope of approval including notes relating to the superscript references in the above table, may be viewed online by clicking on the product name in the associated entry on www.RedBookLive.com

Certificate No: 531k-(cl-1) to EN 54-11:2001 + A1:2005, EN 54-17:2005

Certificated Products		**LPCB Ref. No.**
FDM221	Digital Addressable Type A Indoor/Outdoor Manual Call Point with Re-settable Glass Element and Incorporating Short Circuit Isolator (FDMC291 and FDMK291)	531k/07
FDM223	Digital Addressable Type B Indoor/Outdoor Manual Call Point with Re-settable Glass Element and Incorporation Short Circuit Isolator (DMZ1197-AC and DMZ1195)	531k/08
FDM223H	Digital Addressable Type B Indoor/Outdoor Manual Call Point with Re-settable Glass Element and Incorporating Short Circuit Isolator (DMZ1197-AC and DMZ1197-AD)	531k/09
FDM224	Digital Addressable Type A Indoor/Outdoor Manual Call Point with Re-Settable Glass Element and Incorporating Short Circuit Isolator (DMZ1197-AC and DMZ1195)	531k/10
FDM224H	Digital Addressable Type A indoor/Outdoor Manual Call Point with Re-settable Glass Element and Incorporating Short Circuit Isolator (DMZ1197-AC and DMZ1197-AD)	531k/11
FDM231-RP	Addressable Indoor Manual Call Point with Short Circuit Isolator (FDMK231, FDME231 and FDMH231-S-R)	531k/12

Certificated Products		LPCB Ref. No.
FDM231-RP(F)	Addressable Indoor Manual Call Point with Short Circuit Isolator (FDMK231, FDME231-FR and FDMH231-S-R)	531k/13

Accessories
FDMC291 Protective cover
FDMK231 Key
FDMK291 Key with cover
DMZ1197-AD Seal for wet areas
DMZ1195 Key
DMZ1197-AC Protective Cover
FDME231 Switching unit
FDME231-FR Switching unit (French Variant)
FDMH231-S-R Housing base

A copy of the certificate, confirming the full scope of approval including notes relating to the superscript references in the above table, may be viewed online by clicking on the product name in the associated entry on www.RedBookLive.com

---

SMS (Novar Systems Ltd)

Building 5, Carlton Park, King Edward Avenue, Narborough, Leicester LE19 0AL, United Kingdom
Tel: +44 (0)116 246 2100 • Fax: +44 (0)116 246 2016
Website: www.smsfire.co.uk

Certificate No: 042bq to EN 54-11:2001 +A1:2005 & EN 54-17:2005

Certificated Products		LPCB Ref. No.
SEN-800	Analogue Addressable Type A Indoor Manual Call Point with Short Circuit Isolator (SEN-895 surface mount back box) *Note:* *1. Approved for use with glass non re-settable element*	042bq/01
SEN-805	Analogue Addressable Type A Indoor Manual Call Point with Short Circuit Isolator (SEN-895 surface mount back box) *Note:* *1. Approved for use with plastic re-settable element*	042bq/03
SEN-805-EP	Analogue Addressable Type A Outdoor Manual Call Point with Short Circuit Isolator (MIM1Z003.0 Surface Mounting Base) Note: 1. Approved for use with plastic re-settable element	042bq/05

Ancillaries
SEN-895 Surface Mount Back Box
MIM1Z003.0 Surface Mounting Base

Synaps Technology Srl

Via Pietraferrata 9/1, Trieste 34147, Italy
Tel: 0039 0409896002 • Fax: 0039 040 3755361
E-mail: info@synaps-technology.com • Website: www.synaps-technology.com

Certificate No: 959a to EN 54-11: 2001 + A1: 2005

Certificated Products		LPCB Ref. No.
SyCALL R6847L	Conventional Type A Indoor Manual Call Point	959a/01
CWC99	Conventional Type A Outdoor Manual Call Point	959a/02

Ancillaries
Ancillaries:
Deep Back Box
Safety Cover
Wall Flush Mount Plate (white only) and External Trim Frame (white only)
CALL-105_A Back Box for Wall Mounting
CALL-190_A Wall Mount Plate (60mm) for Semi-Flush Mounting

CALL-125_A Safety Cover

A copy of the certificate, confirming the full scope of approval including notes relating to the superscript references in the above table, may be viewed online by clicking on the product name in the associated entry on www.RedBookLive.com

---

Syncoln Ltd

3rd Floor, 14 Hanover Street, Mayfair, London W1S 1YH, United Kingdom
Tel: +44 (0)207 514 5813
E-mail: sales@syncoln.com • Website: www.syncoln.com

Certificate No: 010bh-(cl-5) to EN 54-11:2001 + A1:2005 & EN 54-17:2005

Manual Call Points

Certificated Products		LPCB Ref. No.
5000-700	Syncoln Addressable Manual Call Point with Isolator (5000-702 Bracket and 5000-710 Back Box)	010bh/01

Ancillaries
5000-702 Mounting Bracket
5000-710 Back Box

A copy of the certificate, confirming the full scope of approval including notes relating to the superscript references in the above table, may be viewed online by clicking on the product name in the associated entry on www.RedBookLive.com

Certificate No: 512f-(cl-5) to EN 54-11:2001 + A1:2005

Certificated Products		LPCB Ref. No.
SYN 4000-200	Conventional Manual Call Point with Flashy LED and Transparent Cover	512f/04

A copy of the certificate, confirming the full scope of approval including notes relating to the superscript references in the above table, may be viewed online by clicking on the product name in the associated entry on www.RedBookLive.com

---

Tanda (UK) Limited

Fourth Floor, 30-31 Furnival Street, London EC4A 1JQ, United Kingdom
Tel: +44 8451162945
E-mail: info@tandauk.com • Website: www.tandauk.com

Certificate No: 1330g-(cl-1) to EN 54-11:2001 + A1:2005

Certificated Products		LPCB Ref. No.
TX7140	Intelligent Analogue Addressable Type A Indoor Surface Mounted Manual Call Point	1330g/01

A copy of the certificate, confirming the full scope of approval including notes relating to the superscript references in the above table, may be viewed online by clicking on the product name in the associated entry on www.RedBookLive.com

---

Tanda Development Pte Ltd

21 Bukit Batok Crescent, #15-75 Wcega Tower, Singapore 658065, Singapore
Tel: +86013223307015
E-mail: Wanyuemin@tandatech.com • Website: www.tnafirealarm.com

Certificate No: 1330g-(cl-4) to EN 54-11: 2001 + A1: 2005

Certificated Products		LPCB Ref. No.
TX7140	Intelligent Analogue Addressabke Type A Indoor Surface Mounted Manual Call Point	1330g/01

A copy of the certificate, confirming the full scope of approval including notes relating to the superscript references in the above table, may be viewed online by clicking on the product name in the associated entry on www.RedBookLive.com

Teletek Electronics JSC

14A Srebarna Street, Sofia 1407, Bulgaria
Tel: +359 2 9694 700 • Fax: +359 2 9625 213
E-mail: info@teletek-electronics.bg • Website: www.teletek-electronics.com

Certificate No: 1139f to EN 54-11:2001 + A1:2005 & EN 54-17:2005

Certificated Products		LPCB Ref. No.
SensoIRIS MCP150	Intelligent Analogue Addressable Fire Alarm Type A Indoor Manual Call Point with built-in Short Circuit Isolator Module *Note:* *1. Approved to Type A Indoor only*	1139f/01

A copy of the certificate, confirming the full scope of approval including notes relating to the superscript references in the above table, may be viewed online by clicking on the product name in the associated entry on www.RedBookLive.com

Thorn Security Limited, trading as Tyco Safety Products

Dunhams Lane, Letchworth SG6 1BD, United Kingdom
Tel: +44 (0)1462 667700 • Fax: +44 (0)1462 667777
E-mail: mashbury@tycoint.com • Website: www.tycosafetyproducts-europe.com

Certificate No: 567av to EN 54-11: 2001 + A1: 2005

Certificated Products		LPCB Ref. No.
MCP200	Indoor surface/flush mounting conventional call point	567av/03
MCP210	Indoor surface/flush mounting conventional call point	567av/03
MCP250M	Indoor/outdoor surface/flush mounting conventional call point Marine model	567av/03
MCP230	Outdoor surface mounting conventional waterproof call point	567av/11
MCP260M	Outdoor surface mounting conventional waterproof call point Marine model	567av/11

Tianjin VSAIL Intelligent Fire Technology Co Ltd

No 401, Building 6, No 1 Xinxing Road, Wuqing Development Zone, Tianjin, PRC 301700, China
Tel: +8613911191759
E-mail: ERICHENX@VSAIL.COM.CN

Certificate No: 1174d to EN 54-11:2001 + A1:2005

Certificated Products		LPCB Ref. No.
VC-6653	Conventional Resettable Type A Indoor Manual Call Point	1174d/01
VI-6657	Digital Resettable Type A Indoor Manual Call Point	1174d/02

A copy of the certificate, confirming the full scope of approval including notes relating to the superscript references in the above table, may be viewed online by clicking on the product name in the associated entry on www.RedBookLive.com

Tyco Fire & Security GmbH

Victor Von Bruns-Strasse 21, Neuhausen am Rheinfall 8212, Switzerland
Tel: +44 (0)1462 667700 • Fax: +44 (0)1462 667777
E-mail: deepika.sahni@jci.com • Website: www.tycosafetyproducts-europe.com

Certificate No: 567x-(cl-4) to EN 54-11:2001 + A1:2005, EN 54-17:2005

Certificated Products		LPCB Ref. No.
MCP820	Indoor Surface/Flush Mounting Analogue Addressable Type A Call Point with Short Circuit Isolator *Note:* *Approved with glass and flexible element options*	567x/12
FC420CP-I	Indoor Surface/Flush Mounting Analogue Addressable Type A Call Point with Short Circuit Isolator *Note:* *Approved with glass and flexible element options*	567x/12
MCP820M	Indoor Surface/Flush Mounting Analogue Addressable Type A Call Point with Short Circuit Isolator (Marine Version) *Note:* *Approved with glass element only option*	567x/13
4099-5210	Simplex Indoor Surface/Flush Mounting Analogue Addressable Type A Call Point with Short Circuit Isolator *Note:* *Approved with glass and flexible element options*	567x/12
MCP820 (514.800.611.CN)	Indoor Surface/Flush Mounting Analogue Addressable Type A Call Point with Short Circuit Isolator (Chinese version) Note: Approved with glass and flexible element options	567x/12

A copy of the certificate, confirming the full scope of approval including notes relating to the superscript references in the above table, may be viewed online by clicking on the product name in the associated entry on www.RedBookLive.com

Certificate No: 681ab-(cl-1) to EN 54-11:2001 + A1:2005, EN 54-17:2005

Certificated Products		LPCB Ref. No.
MCP830	Outdoor Surface Mounting Analogue Addressable Type A Call Point with Short Circuit Isolator Note: Approved with glass and flexible element options	681ab/01
MCP830 (514.800.612.CN)	Outdoor Surface Mounting Analogue Addressable Type A Call Point with Short Circuit Isolator (Chinese version) Note: Approved with glass and flexible element options	681ab/01
FC421CP-I	FireClass Outdoor Surface Mounting Analogue Addressable Type A Call Point with Short Circuit Isolator Note: Approved with glass and flexible element options	681ab/01
4099-5211	Simplex Outdoor Surface Mounting Analogue Addressable Type A Call Point with Short Circuit Isolator Note: Approved with glass and flexible element options	681ab/01
MCP830M	Outdoor Surface Mounting Analogue Addressable Type A Call Point with Short Circuit Isolator (Marine Version) Note: Approved with glass element only option	681ab/02

A copy of the certificate, confirming the full scope of approval including notes relating to the superscript references in the above table, may be viewed online by clicking on the product name in the associated entry on www.RedBookLive.com

V-GREAT GLOBAL CORPORATION

Second Floor, Capital City, Independence Avenue, P O Box 1008, Victoria, Mahe, Seychelles
Tel: 008613581542023
E-mail: vgreatech@hotmail.com

Certificate No: 1174d-(cl-1) to EN 54-11:2001 + A1:2005

Manual Call Point

Certificated Products		LPCB Ref. No.
VG-6653	Conventional Resettable Type A Indoor Manual Call Point	1174d/01
VG-6657	Addressable Resettable Type A Indoor Manual Call Point	1174d/02

A copy of the certificate, confirming the full scope of approval including notes relating to the superscript references in the above table, may be viewed online by clicking on the product name in the associated entry on www.RedBookLive.com

VIVA ELEKTRONIK SISTEMLER

Rasimpasa Mah. Muhendis Sari Ali, Sok. Birlik Han No:3/1, Kadikoy, ISTANBUL 34716, Turkey
Tel: 0090 549 797 70 80
E-mail: info@vivafire.com • Website: www.vivafire.com

Certificate No: 1426d-(cl-1) to EN 54-11:2001 + A1: 2005

Certificated Products		LPCB Ref. No.
VI 200-CP	Intelligent Addressable Manual Call Point	1426d/01

A copy of the certificate, confirming the full scope of approval including notes relating to the superscript references in the above table, may be viewed online by clicking on the product name in the associated entry on www.RedBookLive.com

Walter Kidde Portable Equipment Inc. (Trading as Edwards, A Carrier Company)

8985 Town Center Parkway, Bradenton, FL 34202, USA

Certificate No: 1255c-(cl-1) to EN 54-11:2001 + A1:2005

Certificated Products		LPCB Ref. No.
SIGI-271	Digital Addressable Indoor Manual Call Point, Surface or Flush Mounted	1255c/01

Accessories:
KAC SR3T-P Surface mounted box
KAC ETTI-P Flush mounted box
A copy of the certificate, confirming the full scope of approval including notes relating to the superscript references in the above table, may be viewed online by clicking on the product name in the associated entry on www.RedBookLive.com

Certificate No: 1255g-(cl-1) to EN 54-11:2001 + A1:2005, EN 54-17:2005

Certificated Products		LPCB Ref. No.
SIGI-MCP	Manual Call Point with Isolation	1255g/01

A copy of the certificate, confirming the full scope of approval including notes relating to the superscript references in the above table, may be viewed online by clicking on the product name in the associated entry on www.RedBookLive.com

Yingkou Tiancheng Fire Protection Equipment Co., Ltd

No. 11-2, Kechechang Xili,, Xishi District, Yingkou, Pilot Free Trade Zone, Liaoning 115004, China
Tel: +8618604079002
E-mail: wayne@tcfiretech.com • Website: www.tcfiretech.com

Certificate No: 1450e to EN 54-11:2001 + A1: 2005

Certificated Products		LPCB Ref. No.
J-SAP-TCSB5264	Indoor Analogue Addressable Type A Re-settable Manual Call Point	1450e/01

A copy of the certificate, confirming the full scope of approval including notes relating to the superscript references in the above table, may be viewed online by clicking on the product name in the associated entry on www.RedBookLive.com

Zeta Alarms Limited

Detection House, 72-78 Morfa Road, Swansea SA1 2EN, United Kingdom
Tel: +44 (0)1792 455175 • Fax: +44 (0)1792 455176
E-mail: ghassan@zetaalarmsystems.com • Website: www.zetaalarmsystems.com

Certificate No: 330m to EN 54-11:2001, EN 54-17:2005

Manual Call points

Certificated Products		LPCB Ref. No.
ZT-CP3/AD	Addressable Indoor Type A Manual Call Point with Short Circuit Isolator	330m/01
ZT-CP4/AD	Addressable Fyreye II Resettable Call Point, Type A Indoor with Short Circuit Isolator	330m/02
ZT-CP4/AD/WP	Addressable Fyreye II Resettable Call Point, Type A Weatherproof with Short Circuit Isolator	330m/03

Accessories

M200	Wall Plate
M223	Back Box
M200/V2	Wall Plate
M223/V2	Back Box

A copy of the certificate, confirming the full scope of approval including notes relating to the superscript references in the above table, may be viewed online by clicking on the product name in the associated entry on www.RedBookLive.com

Certificate No: 959a-(cl-2) to EN 54-11:2001 + A1:2005

Manual Call points

Certificated Products		LPCB Ref. No.
ZT-CP4	Conventional Type A Indoor Manual Call Point	959a/01
ZT-CP4/WP	Conventional Type A Outdoor Manual Call Point	959a/02

Accessories

CALL-105_A	Back box for wall mounting
CALL-190_A	Wall Mount Plate (60mm) for semi-flush mounting
CALL-125_A	Safety cover

A copy of the certificate, confirming the full scope of approval including notes relating to the superscript references in the above table, may be viewed online by clicking on the product name in the associated entry on www.RedBookLive.com

Zhongshan Guta Fire Equipment Technology Co., Ltd

4/F 10# Xingye Road,, Huojo District, Zhongshan City, Guangdong 528400, China
Tel: 8613828765759
E-mail: strongwang@asenware.com • Website: www.guta-fire.com

Certificate No: 1395d to EN 54-11: 2001 + A1: 2005

Certificated Products		**LPCB Ref. No.**
AW-D135C	Conventional Type A Indoor Manual Call Point	1395d/01
AW-D135A	Addressable Type A Indoor Manual Call Point	1395d/02

A copy of the certificate, confirming the full scope of approval including notes relating to the superscript references in the above table, may be viewed online by clicking on the product name in the associated entry on www.RedBookLive.com

A Line Unit is the term given to define devices used for functions other than fire detection, which are connected to a fire detection and alarm system transmission path or within other components of the fire detection and alarm system e.g. inside Control and Indicating Equipment. For example, the following devices may be regarded as Line Units:

- short circuit isolators
- input/output interfaces

Short-circuit isolators are used to limit the consequences of low parallel resistance faults between the lines of a transmission path of a fire detection and fire alarm system. The transmission path is normally in a loop configuration which is separated into sections by the short circuit isolators, such that a detected fault in a particular section will isolate that particular section allowing other components in other sections on the loop to function correctly.

Input/output devices are intended for different applications, and may therefore have different functions. Their functions are specified by the manufacturer and they are tested and approved against this specification.

This section lists approved Line Units which are connected to a fire detection and alarm system. The initial approval and continued approval processes for Line Units are outlined in scheme document SD038.

Products listed in this section have been approved to:

- EN 54-17 *Short-circuit isolators*
- EN 54-18 *Input/output devices*
- EN 54-25 *Components using radio links*

Audit:
Regular product auditing and regular factory inspections are carried out by LPCB ensuring high manufacturing standards and continued compliance with the applicable product standard.

Notes:
1. Since the LPCB uses national and international standards for the listing of products, in some instances the requirements of these standards may conflict with the recommendations of local codes of practice. We recommend that specifiers seek advice from the relevant local authorities and amend their specifications accordingly.

Adkinns Inc.

5063 Commercial Circle, Concord CA 94520, USA
Tel: +1 (650) 457 4580
Website: www.adkinns.com

Certificate No: 1426e-(cl-6) to EN 54-18:2005

Certificated Products		LPCB Ref. No.
PYR-FA-CHA-IOM	Addressable I/O Module (PYR-FA-CHA-MB Base) (Branded as Pyronics)	1426e/02

Base:
PYR-FA-CHA-MB
A copy of the certificate, confirming the full scope of approval including notes relating to the superscript references in the above table, may be viewed online by clicking on the product name in the associated entry on www.RedBookLive.com

Certificate No: 1426f-(cl-6) to EN 54-17:2005

Certificated Products		LPCB Ref. No.
PYR-FA-CHA-IM	Loop Isolator (PYR-FA-CHA-IB Base) (Branded as Pyronics)	1426f/01

Base:

PYR-FA-CHA-IB

A copy of the certificate, confirming the full scope of approval including notes relating to the superscript references in the above table, may be viewed online by clicking on the product name in the associated entry on www.RedBookLive.com

Advanced Electronics Limited

The Bridges, Balliol Business Park, Longbenton, Newcastle-Upon-Tyne NE12 8EW, United Kingdom
Tel: +44 (0)345 894 7000 • Fax: +44 (0)1670 707 222
E-mail: pbrown@advancedco.com • Website: www.advancedco.com

Certificate No: 928n-(cl-1) to EN 54-18: 2005, EN 54-17: 2005 and EN 54-25: 2008

Certificated Products		LPCB Ref. No.
20-VW2W100-ADV	Wire to wireless translator module	928n/01

A copy of the certificate, confirming the full scope of approval including notes relating to the superscript references in the above table, may be viewed online by clicking on the product name in the associated entry on www.RedBookLive.com

Certificate No: 928r-(cl-1) to EN 54-18:2005, EN 54-25:2008

Certificated Products		LPCB Ref. No.
20-SGCWE100-ADV	Wireless Conventional System Expander Module	928r/01
20-SGWE100-ADV	Wireless Expander Module	928r/02
20-SGMCB200-ADV	Wireless Battery Powered Output Module 1. The device must be used with the following batteries only: - CR123A (3Vdc) Main Battery - CR123A (3Vdc) Secondary Battery	928r/03
20-SGMI200-ADV	Wireless Battery Powered Input Module 1. The device must be used with the following batteries only: - CR123A (3Vdc) Main Battery - CR2032A (3Vdc) Secondary Battery	928r/04

A copy of the certificate, confirming the full scope of approval including notes relating to the superscript references in the above table, may be viewed online by clicking on the product name in the associated entry on www.RedBookLive.com

Advantronic Systems S.L.

C/Yunque 9 Nave B1, Tres Cantos, Madrid 28760, Spain
Tel: +34 91 806 2343 • Fax: +34 91 803 1171
E-mail: jpedrouzo@advantronic.es • Website: www.advantronic.es

Certificate No: 928n-(cl-2) to EN 54-18: 2005, EN 54-17: 2005 and EN 54-25: 2008

Certificated Products		LPCB Ref. No.
AVW190AL	Wire to wireless translator module	928n/01

A copy of the certificate, confirming the full scope of approval including notes relating to the superscript references in the above table, may be viewed online by clicking on the product name in the associated entry on www.RedBookLive.com

Certificate No: 928r-(cl-2) to EN 54-18:2005, EN 54-25:2008

Certificated Products		LPCB Ref. No.
AVW191AL	Wireless Conventional System Expander Module	928r/01
AVW192AL	Wireless Expander Module	928r/02
AVW226AL	Wireless Battery Powered Output Module 1. The device must be used with the following batteries only: - CR123A (3Vdc) Main Battery - CR123A (3Vdc) Secondary Battery	928r/03
AVW214AL	Wireless Battery Powered Input Module	928r/04

Certificated Products		LPCB Ref. No.
	1. The device must be used with the following batteries only: - CR123A (3Vdc) Main Battery - CR2032A (3Vdc) Secondary Battery	

A copy of the certificate, confirming the full scope of approval including notes relating to the superscript references in the above table, may be viewed online by clicking on the product name in the associated entry on www.RedBookLive.com

Certificate No: 928ak-(cl-1) to EN 54-17:2005

Certificated Products		LPCB Ref. No.
AV170AL	Short Circuit Isolator Module	928ak/01

A copy of the certificate, confirming the full scope of approval including notes relating to the superscript references in the above table, may be viewed online by clicking on the product name in the associated entry on www.RedBookLive.com

---

Al Rayan Security & Safety Trading

Warehouse No, 12, Al Qusais Industrial Area 4, P O Box 233949, Dubai, United Arab Emirates
Tel: +971 42630396 • Fax: +971 42630397
E-mail: rayandxb@eim.ae • Website: www.rayandxb.ae

Certificate No: 1174h-(cl-1) to EN 54-18:2005

Line Units

Certificated Products		LPCB Ref. No.
SI-6717	Addressable Resettable Type A Indoor Manual Call Point (branded as SECURE)	1174h/01
SI-6727	Addressable Control Interface (1 Input & 1 Output) (SB-6618 Base) (branded as SECURE)	1174h/02

Bases
SB-6618 Installation base
A copy of the certificate, confirming the full scope of approval including notes relating to the superscript references in the above table, may be viewed online by clicking on the product name in the associated entry on www.RedBookLive.com

Certificate No: 1174g-(cl-1) to EN 54-17:2005

Certificated Products		LPCB Ref. No.
SI-6777	Addressable Isolator Interface (SB-6618 Base) (branded as SECURE)	1174g/01

Bases
SB-6618 Installation Base

A copy of the certificate, confirming the full scope of approval including notes relating to the superscript references in the above table, may be viewed online by clicking on the product name in the associated entry on www.RedBookLive.com

---

Ampac Pty Ltd

7 Ledgar Road, Balcatta 6021, Australia
Tel: +618 (9242) 3333 • Fax: +618 (9242) 3334
E-mail: askellham@ampac.net • Website: www.ampac.net

Certificate No: 010ah-(cl-5) to EN 54-17:2005 and EN 54-18:2005

Certificated Products		LPCB Ref. No.
55000-845AMP	Analogue Addressable Zone Monitor Unit with Isolator	010ah/05
55000-852AMP	Analogue Addressable Sounder Controller with Isolator	010ah/08
55000-760AMP	Analogue Addressable Mini Switch Monitor with Isolator	010ah/09

Certificated Products		LPCB Ref. No.
SA4700-100AMP	Soteria Switch Monitor Unit (45681-400 Backbox)	010ah/11
SA4700-300AMP	Soteria DIN Switch Monitor Unit (38532-092 DIN Tub)	010ah/12
SA4700-102AMP	Soteria Input/Output Unit (45681-400 Backbox) Note: 1. Approved for use with Omron relay part number: G6KU2FYTR12DC and Fujitsu part number: FTR-B3GB012Z	010ah/13
SA4700-302AMP	Soteria DIN Input/Output Unit (38532-092 DIN Tub) Note: 1. Approved for use with Omron relay part number: G6KU2FYTR12DC and Fujitsu part number: FTR-B3GB012Z	010ah/14
SA4700-103AMP	Soteria Mains Input/Output Unit (45681-400 Backbox)	010ah/19
SA4700-104AMP	Soteria Twin Input/Output Unit (45681-400 Backbox) Note: 1. Approved for use with Omron relay part number: G6KU2FYTR12DC and Fujitsu part number: FTR-B3GB012Z	010ah/21
SA6700-100AMP	Soteria Twin Switch Monitor Unit (45681-400 Backbox)	010ah/22

Bases:
45681-517AMP Enhanced deep isolating bases (White)
45681-518AMP Enhanced deep isolating bases (Red)
45681-400 Backbox
38532-092 DIN Tub
A copy of the certificate, confirming the full scope of approval including notes relating to the superscript references in the above table, may be viewed online by clicking on the product name in the associated entry on www.RedBookLive.com

Certificate No: 010aa-(cl-3) to EN 54-17: 2005

Line Units

Certificated Products		LPCB Ref. No.
45681-518AMP	Enhanced deep isolating base (Red)	010aa/08

A copy of the certificate, confirming the full scope of approval including notes relating to the superscript references in the above table, may be viewed online by clicking on the product name in the associated entry on www.RedBookLive.com

Certificate No: 010ag-(cl-2) to EN54-18: 2005

Line Units

Certificated Products		LPCB Ref. No.
45681-245AMP	Conventional standard relay base	010ag/02

A copy of the certificate, confirming the full scope of approval including notes relating to the superscript references in the above table, may be viewed online by clicking on the product name in the associated entry on www.RedBookLive.com

Apollo Fire Detectors Limited
36 Brookside Road, Havant, Hampshire PO9 1JR, United Kingdom
Tel: +44 (0)2392 492412 • Fax: +44 (0)2392 492754
E-mail: enquiries@apollo-fire.co.uk

Sales Enquiries Germany
Apollo Deutschland GmbH
Tel: +49 5241 330 60 • Fax: +49 5241 330 629
E-mail: info@apollo-feuer.de

Sales Enquiries Spain,
Apollo Espana
Tel: +34 627 988 061 • Fax: +34 949 335 289
E-mail: apollo.espana@apollo-fire.com

Sales Enquiries China,
Apollo Fire Detectors Limited,, Shanghai representative office
Tel: +86 21 5237 0922 • Fax: +86 21 5237 0920
E-mail: tony.ye@apollo-fire.com

Certificate No: 010ah to EN54-17: 2005 & EN54-18: 2005

Certificated Products		**LPCB Ref. No.**
55000-588	XP95 analogue addressable 3 channel input/output unit with isolator	010ah/01
55000-845	XP95 analogue addressable zone monitor unit with isolator	010ah/05
55000-847	XP95 analogue addressable input/output unit with isolator	010ah/06
55000-852	XP95 analogue addressable sounder controller with isolator	010ah/08
55000-812	XP95 analogue addressable DIN-rail zone monitor	010ah/02
55000-760	XP95/Discovery Analogue addressable mini switch monitor with isolator	010ah/09
SA4700-100	Intelligent Switch Monitor (45681-400 Backbox)	010ah/11
SA4700-300	Intelligent DIN-Rail Switch Monitor (38532-092 DIN Tub)	010ah/12
SA4700-102	Intelligent Input/Output Unit (45681-400 Backbox) *Note:* *1. Approved for use with Omron relay part number: G6KU2FYTR12DC and Fujitsu part number: FTR-B3GB012Z*	010ah/13
SA4700-302	Intelligent DIN-Rail Input/Ouput Unit (38532-092 DIN Tub) *Note:* *1. Approved for use with Omron relay part number: G6KU2FYTR12DC and Fujitsu part number: FTR-B3GB012Z*	010ah/14
SA4700-103	Intelligent Mains Switching Input/Output Unit (45681-400 Backbox)	010ah/19
SA4700-403	Intelligent DIN-Rail Mains Switching Input/Output Unit (38532-091 DIN Tub) *Note:* *1. This device to be installed within an enclosure weighing greater than 4.75kg.*	010ah/20
SA4700-104	Intelligent Twin Input/Output Unit (45681-400 Backbox) *Note:* *1. Approved for use with Omron relay part number: G6KU2FYTR12DC and Fujitsu part number: FTR-B3GB012Z*	010ah/21
SA6700-100	Intelligent Twin Switch Monitor (45681-400 Backbox)	010ah/22

Ancillaries

45681-211	XP95 Isolator Base
45681-400	Intelligent Interface Backbox
38532-092	Interface Small DIN Tub
38532-091	Interface Large DIN Tub
SA5000-200	XPERT8 (White) Intelligent Base
SA5000-202	XPERT8 (Red) Intelligent Base
45681-210	Intelligent Mounting Base

A copy of the certificate, confirming the full scope of approval including notes relating to the superscript references in the above table, may be viewed online by clicking on the product name in the associated entry on www.RedBookLive.com

Certificate No: 010ag to EN54-18: 2005

Line Units

Certificated Products		LPCB Ref. No.
55000-181	XP95 analogue addressable DIN-rail 8A sounder controller unit	010ag/07
55000-182	XP95 analogue addressable DIN-rail sounder control unit	010ag/08
55000-855	XP95 analogue addressable DIN-rail protocol translator single Note: to ensure compliance is maintained, all connecting cables to the protocol translator shall be less than 3m.	010ag/14
55000-856	XP95 analogue addressable DIN-rail protocol translator dual Note: to ensure compliance is maintained, all connecting cables to the protocol translator shall be less than 3m.	010ag/15
45681-245	S65 conventional standard relay base	010ag/02
45681-246	S65 conventional auxiliary relay base	010ag/03
45681-247	S65 conventional end of line 12V relay base	010ag/04
45681-248	S65 conventional end of line 24V relay base	010ag/05
45681-508	S65 conventional 12V relay base	010ag/06
ORB-RB-10004	Orbis TimeSaver relay base	010ag/17
ORB-SW-10005	Orbis Sav-wire base	010ag/18
55000-797	XP95 analogue addressable DIN-rail mains input/output unit Note: to ensure compliance is maintained, this device shall be installed within an enclosure weighing greater than 4.75kg.	010ag/09

A copy of the certificate, confirming the full scope of approval including notes relating to the superscript references in the above table, may be viewed online by clicking on the product name in the associated entry on www.RedBookLive.com

Certificate No: 010aa to EN 54-17:2005

Line Units

Certificated Products		LPCB Ref. No.
45681-284	XP95/Discovery short circuit isolating base	010aa/01
55000-720	XP95 20D negative short circuit isolator (45681-211 Base)	010aa/05
55000-802	XP95 analogue addressable DIN-rail dual isolator	010aa/06
45681-518	Enhanced deep isolating base (Red)	010aa/08
SA5501-320	Intelligent Open Area Visual Indicator (White Flash, White Body) (SA5000-200, SA5000-202 and 45681-210)	010aa/09
SA5501-321	Intelligent Open Area Visual Indicator (Red Flash, White Body) (SA5000-200, SA5000-202 and 45681-210)	010aa/10

Ancillaries

45681-211	XP95 Isolator Base
SA5000-200	XPERT8 (White) Intelligent Base
SA5000-202	XPERT8 (Red) Intelligent Base
45681-210	Intelligent Mounting Base

A copy of the certificate, confirming the full scope of approval including notes relating to the superscript references in the above table, may be viewed online by clicking on the product name in the associated entry on www.RedBookLive.com

---

Argus Security S.r.l.

Via del Canneto 14, Valle delle Noghere, 34015 Muggia, Trieste, Italy
Tel: +39 (0) 402821110 • Fax: +39 (0) 402823483
E-mail: dcresseri@argussecurity.it • Website: www.argussecurity.it

Certificate No: 928r to EN 54-18: 2005 and EN 54-25: 2008

Certificated Products		LPCB Ref. No.
SGCWE100	Wireless conventional system Expander module	928r/01
SGWE100	Wireless Expander module	928r/02
VW2W128	Wire to Wireless Dynamic Translator Module	928r/05
SGMCB200	Wireless Battery Powered Output Module	928r/03

Certificated Products		LPCB Ref. No.
	Note: *1. The device must be used with the following batteries only:* *- CR123A (3Vdc) - Main Battery* *- CR123A (3Vdc) - Secondary Battery*	
SGMI200	Wireless Battery Powered Input Module *Notes:* *1. The device must be used with the following batteries only:* *- CR123A (3Vdc) - Main Battery* *- CR2032A (3Vdc) - Secondary Battery*	928r/04

A copy of the certificate, confirming the full scope of approval including notes relating to the superscript references in the above table, may be viewed online by clicking on the product name in the associated entry on www.RedBookLive.com

Certificate No: 928n to EN 54-17:2005, EN 54-18:2005, EN 54-25:2008

Certificated Products		LPCB Ref. No.
VW2W100	Wire to Wireless Translator Module	928n/01

A copy of the certificate, confirming the full scope of approval including notes relating to the superscript references in the above table, may be viewed online by clicking on the product name in the associated entry on www.RedBookLive.com

Certificate No: 928ak to EN 54-17:2005

Certificated Products		LPCB Ref. No.
LVMX100	Short Circuit Isolator Module	928ak/01

A copy of the certificate, confirming the full scope of approval including notes relating to the superscript references in the above table, may be viewed online by clicking on the product name in the associated entry on www.RedBookLive.com

---

ASENWARE LTD

6 Prospect Way, Royal Oak Industrial Estate, Daventry, Northamptonshire NN11 8PL, United Kingdom
Tel: +8613828765759
E-mail: info@asenware.com

Certificate No: 1426e-(cl-3) to EN 54-18:2005

Line Units

Certificated Products		LPCB Ref. No.
AW-D319	Addressable I/O Module	1426e/01
AW-D309	Addressable I/O Module (DZ-9058 Base)	1426e/02
AW-D310	Addressable Zone Module	1426e/03

Base

DZ -9056
DZ-9057
DZ-9058

A copy of the certificate, confirming the full scope of approval including notes relating to the superscript references in the above table, may be viewed online by clicking on the product name in the associated entry on www.RedBookLive.com

Certificate No: 1426f-(cl-3) to EN 54-17:2005

Certificated Products		LPCB Ref. No.
AW-D314	Loop Isolator (DZ-9057 Base)	1426f/01

Base:
DZ-9057 Base

A copy of the certificate, confirming the full scope of approval including notes relating to the superscript references in the above table, may be viewed online by clicking on the product name in the associated entry on www.RedBookLive.com

ASI Oy Ltd

Laitaatsillantie 3, Savonlinna 57170, Finland
Tel: +358 20 730 8550
E-mail: mail@asioy.fi • Website: https://asioy.fi/

Certificate No: 1571k to EN 54-18:2005 & EN 54-25:2008

Line Units

Certificated Products		LPCB Ref. No.
ARF-WL8-EXP	Wireless Expander Module	1571k/01
ARF-WL8-OUT	Wireless Single Output Module Note: 1. The device must be used with the following batteries only: - Primary CR123A (3V) - Secondary CR123A (3V)	1571k/03
EK-WL8-EXP	(EKHO Brand) Wireless Expander Module	1571k/01
EK-WL8-OUT	(EKHO Brand) Wireless Single Output Module Note: 1. The device must be used with the following batteries only: - Primary CR123A (3V) - Secondary CR123A (3V)	1571k/03
ARF-WL8-IN	Wireless Single Input Module Note: 1. The device must be used with the following batteries only: - Primary CR123A (3V) - Secondary CR2032 (3V)	1571k/02
EK-WL8-IN	(EKHO Brand) Wireless Single Input Module Note: 1. The device must be used with the following batteries only: - Primary CR123A (3V) - Secondary CR2032 (3V)	1571k/02
KM-WL8-EXP	(K-Mesh Brand) Wireless Expander Module	1571k/01
KM-WL8-IN	(K-Mesh Brand) Wireless Single Input Module Note: 1. The device must be used with the following batteries only: - Primary CR123A (3V) - Secondary CR2032 (3V)	1571k/02
KM-WL8-OUT	(K-Mesh Brand) Wireless Single Output Module Note: 1. The device must be used with the following batteries only: - Primary CR123A (3V) - Secondary CR123A (3V)	1571k/03

A copy of the certificate, confirming the full scope of approval including notes relating to the superscript references in the above table, may be viewed online by clicking on the product name in the associated entry on www.RedBookLive.com

Certificate No: 1571j to EN 54-17:2005, EN 54-18:2005 & EN 54-25:2008

Line Units

Certificated Products		LPCB Ref. No.
ARF-WL8-TRV	Wireless Translator Module	1571j/01
ARF-WL8-TRH	Wireless Translator Module	1571j/02
EK-WL8-TRH	(EKHO Brand) Wireless Translator Module	1571j/02
KM-WL8-TRH	(K-Mesh Brand) Wireless Translator Module	1571j/02

A copy of the certificate, confirming the full scope of approval including notes relating to the superscript references in the above table, may be viewed online by clicking on the product name in the associated entry on www.RedBookLive.com

ATEIS Middle East FZCO

LIU 11 Dubai Silicon Oasis, Post Box 293640, Dubai, United Arab Emirates
Tel: +971 4 3262730 • Fax: +971 4 3262731
E-mail: info@ateis.ae • Website: www.ateis.ae

Certificate No: 928n-(cl-4) to EN 54-18: 2005, EN 54-17: 2005 and EN 54-25: 2008

Certificated Products		LPCB Ref. No.
VELOX WLTM100	Wire to wireless translator module	928n/01

A copy of the certificate, confirming the full scope of approval including notes relating to the superscript references in the above table, may be viewed online by clicking on the product name in the associated entry on www.RedBookLive.com

Certificate No: 928r-(cl-4) to EN 54-18:2005, EN 54-25:2008

Certificated Products		LPCB Ref. No.
VELOX WLCEM100	Wireless conventional system Expander module	928r/01
VELOX WLEM100	Wireless Expander module	928r/02

A copy of the certificate, confirming the full scope of approval including notes relating to the superscript references in the above table, may be viewed online by clicking on the product name in the associated entry on www.RedBookLive.com

Certificate No: 1154p to EN 54-17:2005, EN 54-18:2005, EN 54-25:2008

Certificated Products		LPCB Ref. No.
WLTM100	Velox Wireless Translator Module	1154p/01

A copy of the certificate, confirming the full scope of approval including notes relating to the superscript references in the above table, may be viewed online by clicking on the product name in the associated entry on www.RedBookLive.com

Certificate No: 1154r to EN 54-18:2005, EN 54-25:2008

Certificated Products		LPCB Ref. No.
WLEM100	Velox Wireless Expander Module	1154r/01
WLMC100X	Velox Wireless Single Channel Battery Powered Output Module 1. The device must be used with the following batteries only: - CR123A (3Vdc) Main Battery - CR123A (3Vdc) Secondary Battery	1154r/02
WLMI100	Velox Wireless Single Channel Input Module 1. The device must be used with the following batteries only: - CR123A (3Vdc) Main Battery - CR2032A (3Vdc) Secondary Battery	1154r/03

A copy of the certificate, confirming the full scope of approval including notes relating to the superscript references in the above table, may be viewed online by clicking on the product name in the associated entry on www.RedBookLive.com

Autronica Fire & Security AS

Postboks 5620 NO-7483, Trondheim, Norway
Tel: +47 73582500 • Fax: +47 73582501
E-mail: info@autronicafire.no • Website: www.autronicafire.no

Beijing Leader Huaxin Electronics Co. Ltd

No. 17 Rongjing Eastern Road, Economy & Technology Developed Area, Beijing 100176, China
Tel: +86 10 67876681 • Fax: +86 10 67863972
E-mail: hy.chen@beijingleader.com.cn • Website: www.beijingleader.com.cn

Certificate No: 987c to EN 54:18:2005

Certificated Products		LPCB Ref. No.
LD6800ED-1	Analogue Addressable Input/Output Module (LD60(ED) Module Base)	987c/02

LD60(ED) Module Base

A copy of the certificate, confirming the full scope of approval including notes relating to the superscript references in the above table, may be viewed online by clicking on the product name in the associated entry on www.RedBookLive.com

Bharat Fire Fighting PVT Ltd

Garudichira House, Kuriyannoor post,, Thottappuzhassery, Pullada,, Pathanam Thitta, Kerala 689550, India
Tel: 00919446274427
E-mail: info@bhafffco.com

Certificate No: 1450f-(cl-2) to EN 54-17: 2005

Certificated Products		LPCB Ref. No.
BKG510	Loop Isolator	1450f/01
BKG540	Isolating Base	1450f/02

Base
BKFM1
BKFB1
A copy of the certificate, confirming the full scope of approval including notes relating to the superscript references in the above table, may be viewed online by clicking on the product name in the associated entry on www.RedBookLive.com

Certificate No: 1450b-(cl-3) to EN 54-18:2005

Certificated Products		LPCB Ref. No.
BKG530	Addressable Dual Input Module	1450b/02
BKG520	Addressable Input/Output Module	1450b/03

Base

BKG530B Base
BKG520B Base

A copy of the certificate, confirming the full scope of approval including notes relating to the superscript references in the above table, may be viewed online by clicking on the product name in the associated entry on www.RedBookLive.com

Bristol Fire Engineering LLC

Al Quoz Industrial Area 3, P.O.Box 74582, Dubai, United Arab Emirates
Tel: +971 4 347 2426 • Fax: +971 4 347 2363
E-mail: sami@bristol-fire.com • Website: www.bristol-fire.com

Certificate No: 1330e-(cl-2) to EN 54-18:2005

Certificated Products		LPCB Ref. No.
IM-8412	Addressable Single Input/Output Module	1330e/01

A copy of the certificate, confirming the full scope of approval including notes relating to the superscript references in the above table, may be viewed online by clicking on the product name in the associated entry on www.RedBookLive.com

Certificate No: 1330f-(cl-2) to EN 54-17:2005

Certificated Products		LPCB Ref. No.
IM-8414	Analogue Addressable Isolator Module	1330f/01
IGN-7201	Base Mount Short Circuit Isolator	1330f/02

A copy of the certificate, confirming the full scope of approval including notes relating to the superscript references in the above table, may be viewed online by clicking on the product name in the associated entry on www.RedBookLive.com

---

Ceasefire Industries Private Ltd

E6, Upsidc Industrial Area,, Selaqui, Dehradun, Uttarakhand 24001, India
Tel: +911204223473
E-mail: amit@ceasefire.in

Certificate No: 928n-(cl-9) to EN 54-17: 2005, EN 54-18:2005 & EN 54-25: 2008

Certificated Products		LPCB Ref. No.
TI-002280A	Wire to Wireless Translator Module	928n/01

A copy of the certificate, confirming the full scope of approval including notes relating to the superscript references in the above table, may be viewed online by clicking on the product name in the associated entry on www.RedBookLive.com

Certificate No: 928r-(cl-10) to EN 54-18:2005, EN 54-25:2008

Certificated Products		LPCB Ref. No.
TI-002283A	Wireless Conventional System Expander Module	928r/01
TI-002282A	Wireless Expander Module	928r/02
TI-002255A	Wireless Battery Powered Output Module 1. The device must be used with the following batteries only: - CR123A (3Vdc) Main Battery - CR123A (3Vdc) Secondary Battery	928r/03
TI-002253A	Wireless Battery Powered Input Module 1. The device must be used with the following batteries only: - CR123A (3Vdc) Main Battery - CR2032A (3Vdc) Secondary Battery	928r/04

A copy of the certificate, confirming the full scope of approval including notes relating to the superscript references in the above table, may be viewed online by clicking on the product name in the associated entry on www.RedBookLive.com

---

Computionics Limited (Trading as C-Tec)

Challenge Way, Martland Park, Wigan, Lancashire WD5 0LD, United Kingdom
Tel: +44 (0)1942 322744/42444 • Fax: +44 (0)1942 829867
E-mail: sales@C-tec.co.uk • Website: www.c-tec.co.uk

Certificate No: 176j to EN 54-17:2005, EN 54-18:2005

Certificated Products		LPCB Ref. No.
CA734	CAST Mini I/O Module	176j/01
CA730	CAST Zone Input Relay Output Module	176j/02
CA731	CAST Zone Input Mains Relay Output Module	176j/03
CA732	CAST Zone Input Module	176j/04

Certificated Products		LPCB Ref. No.
HP734	HP Mini I/O Module with Short Circuit Isolator (Fire Level 1)	176j/01
HP735	HP Mini I/O Module with Short Circuit Isolator (Fire Level 2)	176j/01
HP731	HP Mains Switching I/O Module with Short Circuit Isolator (Fire Level 1)	176j/03
HP732	HP Mains Switching I/O Module with Short Circuit Isolator (Fire Level 2)	176j/03

Accessories:
White Plastic Back Box
A copy of the certificate, confirming the full scope of approval including notes relating to the superscript references in the above table, may be viewed online by clicking on the product name in the associated entry on www.RedBookLive.com

---

Context Plus Ltd

Progress House, Newby Industrial Estate, Newby Road, Hazel Grove, Stockport SK7 5DA, United Kingdom
Tel: +44 (0)161 257 2541 • Fax: +44 (0)161 225 8817
E-mail: xportsales@xportsales.com • Website: www.xportsales.com

Certificate No: 010ah-(cl-6) to EN 54-18: 2005 and EN 54-17: 2005

Certificated Products		LPCB Ref. No.
55000-845IMC	Analogue addressable zone monitor with isolator	010ah/05
55000-852IMC	Analogue addressable sounder control unit with isolator	010ah/08
SA4700-100IMC	Switch Monitor (45681-400 Backbox)	010ah/11
SA4700-102IMC	Input/Output Unit (45681-400 Backbox) 1. Approved for use with Omron relay part number: G6KU2FYTR12DC and Fujitsu part number: FTR-B3GB012Z	010ah/13
SA4700-103IMC	Mains Switching Input/Output unit (45681-400 Backbox)	010ah/19
SA4700-104IMC	Twin Input/Output Unit (45681-400 Backbox) 1. Approved for use with Omron relay part number: G6KU2FYTR12DC and Fujitsu part number: FTR-B3GB012Z	010ah/21
SA6700-100IMC	Twin Switch Monitor (45681-400 Backbox)	010ah/22

45681-400 Backbox
White Plastic Back Box
A copy of the certificate, confirming the full scope of approval including notes relating to the superscript references in the above table, may be viewed online by clicking on the product name in the associated entry on www.RedBookLive.com

Certificate No: 176j-(cl-1) to EN 54-17:2005, EN 54-18:2005

Certificated Products		LPCB Ref. No.
CA730/CON	CAST Zone Input Relay Output Module	176j/02

Accessories

White Plastic Back Box

Certificate No: 010ap-(cl-2) to EN 54-17: 2005

Line Units

Certificated Products		LPCB Ref. No.
45681-505IMC	Negative switching isolating base	010ap/01

A copy of the certificate, confirming the full scope of approval including notes relating to the superscript references in the above table, may be viewed online by clicking on the product name in the associated entry on www.RedBookLive.com

Certificate No: 010aa-(cl-7) to EN 54-17:2005

Line Units

Certificated Products		LPCB Ref. No.
45681-518IML	Enhanced Deep Isolating Base (Red)	010aa/08

A copy of the certificate, confirming the full scope of approval including notes relating to the superscript references in the above table, may be viewed online by clicking on the product name in the associated entry on www.RedBookLive.com

---

DEF

7, rue du Saule Trapu, MASSY 91300, France
Tel: +33 (0) 160136772
E-mail: frederic.chateau@coflec.com

Certificate No: 1548b-(cl-1) to EN 54-17: 2005, EN 54-18: 2005

Line Units

Certificated Products		LPCB Ref. No.
MBAS1L	Addressable I/O module with short circuit isolator for a single zone of conventional devices (small or large enclosure)	1548b/01
MBAS1L-DUO	Addressable I/O modules with short circuit isolator for two zones of conventional devices (large enclosure)	1548b/02

The MBAS1L is available with a small enclosure (Ref. BTE-BM) or a large enclosure (Ref. ED4L).

A copy of the certificate, confirming the full scope of approval including notes relating to the superscript references in the above table, may be viewed online by clicking on the product name in the associated entry on www.RedBookLive.com

---

DEF..

7, rue du Saule Trapu, MASSY 91300, France
Tel: +33 (0) 160136772
E-mail: frederic.chateau@coflec.com

Certificate No: 1549a-(cl-1) to EN 54-17:2005, EN 54-18:2005

Line Units

Certificated Products		LPCB Ref. No.
ETCL	Addressable Input / Output Module with Short Circuit Isolator	1549a/01
ETCL-B	Addressable Input / Output Module with Short Circuit Isolator	1549a/02
ETC230L-B	Addressable Input / Output Module with Short Circuit Isolator	1549a/03
ET4CL	Addressable Input / Output Module with Short Circuit Isolator	1549a/05
ETCL8E	Addressable Input / Output Module with Short Circuit Isolator	1549a/06
ETCLT-B	Addressable Input / Output Module with Short Circuit Isolator	1549a/04

A copy of the certificate, confirming the full scope of approval including notes relating to the superscript references in the above table, may be viewed online by clicking on the product name in the associated entry on www.RedBookLive.com

---

Detectomat Systems GmbH.

An der Strusbek 3, Ahrensburg, Hamburg 22926, Germany
Tel: +49 41 02 21 14 60 • Fax: +49 4102 2114 670
E-mail: zulassung@detectomat.com

Certificate No: 1548b-(cl-2) to EN 54-17: 2005, EN 54-18: 2005

Line Units

Certificated Products		LPCB Ref. No.
MBALC	Addressable I/O module with short circuit isolator for a single zone of conventional	1548b/01

Certificated Products		LPCB Ref. No.
	devices.	
MBALC-DUO	Addressable I/O modules with short circuit isolator for two zones of conventional devices.	1548b/02

A copy of the certificate, confirming the full scope of approval including notes relating to the superscript references in the above table, may be viewed online by clicking on the product name in the associated entry on www.RedBookLive.com

Detectomat Systems GmbH..

An der Strusbek 3, Ahrensburg, Hamburg 22926, Germany
Tel: +49 41 02 21 14 60 • Fax: +49 4102 2114 670
E-mail: zulassung@detectomat.com

Certificate No: 1549a-(cl-2) to EN 54-18:2005 & EN 54-17:2005

Line Units

Certificated Products		LPCB Ref. No.
ET4C15	Addressable Input / Output Module with Short Circuit Isolator	1549a/05

A copy of the certificate, confirming the full scope of approval including notes relating to the superscript references in the above table, may be viewed online by clicking on the product name in the associated entry on www.RedBookLive.com

Elite Security Products (ESP)

Unit 7, Target Park, Shawbank Road, Redditch, Birmingham B98 8YN, United Kingdom
Tel: +44 (0)1527 515150
E-mail: info@espuk.com • Website: https://www.espuk.com/

Certificate No: 331k-(cl-1) to EN 54-18:2005

Certificated Products		LPCB Ref. No.
MAGDUOIOR	MAGDUO Interface Module	331k/01

A copy of the certificate, confirming the full scope of approval including notes relating to the superscript references in the above table, may be viewed online by clicking on the product name in the associated entry on www.RedBookLive.com

Eurotech Fire Systems Limited

19/20 Stratfield Park, Elettra Avenue, Waterlooville, Hampshire PO7 7XN, United Kingdom
Tel: +44 (0)203 141 0999 • Fax: +44 (0)239 225 2554
E-mail: MICHELLE.AGIUS@eurotechfire.com • Website: www.eurotechfire.com

Certificate No: 1213f to EN 54-17: 2005

Line Units

Certificated Products		LPCB Ref. No.
200-113	Odyssey Short Circuit Isolating Base	1213f/01
200-504	Odyssey 20D Negative Short Circuit Isolator (200-112 Base)	1213f/02
200-307	Odyssey Enhanced Deep Isolating Base (Red)	1213f/03

Bases:
200-112 Odyssey isolator base
45681-400 Backbox

A copy of the certificate, confirming the full scope of approval including notes relating to the superscript references in the above table, may be viewed online by clicking on the product name in the associated entry on www.RedBookLive.com

Certificate No: 1213g to EN 54-18:2005

Certificated Products		LPCB Ref. No.
200-303	Odyssey Conventional Standard Relay Base	1213g/01

A copy of the certificate, confirming the full scope of approval including notes relating to the superscript references in the above table, may be viewed online by clicking on the product name in the associated entry on www.RedBookLive.com

Certificate No: 1213h to EN 54-17:2005, EN 54-18:2005

Certificated Products		LPCB Ref. No.
200-203	Odyssey Analogue Addressable Zone Monitor Unit with Isolator	1213h/03
200-206	Odyssey Analogue Addressable Sounder Controller with Isolator	1213h/06
200-201	Odyssey Analogue Addressable Mini Switch Monitor with Isolator	1213h/07
200-202SA	Odyssey Intelligent Switch Monitor (45681-400 Backbox)	1213h/09
200-204SA	Odyssey Intelligent Input/Output Unit (45681-400 Backbox)	1213h/10
200-208SA	Odyssey Intelligent Mains Switching Input/Output Unit (45681-400 Backbox)	1213h/11
200-209SA	Odyssey Intelligent Twin Input/Output Unit (45681-400 Backbox)	1213h/12
200-210SA	Odyssey Intelligent Twin Switch Monitor (45681-400 Backbox)	1213h/13

Ancillaries

45681-400 Backbox

A copy of the certificate, confirming the full scope of approval including notes relating to the superscript references in the above table, may be viewed online by clicking on the product name in the associated entry on www.RedBookLive.com

Certificate No: 1213u to EN 54-17:2005, EN 54-18:2005, EN 54-25:2008

Certificated Products		LPCB Ref. No.
EUW-W2W-01	Euro-Fi Wireless Translator Module	1213u/01

A copy of the certificate, confirming the full scope of approval including notes relating to the superscript references in the above table, may be viewed online by clicking on the product name in the associated entry on www.RedBookLive.com

Certificate No: 1213v to EN 54-18:2005, EN 54-25:2008

Certificated Products		LPCB Ref. No.
EUW-CEM-02	Wireless to Conventional Expander Module	1213v/01
EUW-EM-01	Euro-Fi Wireless Expander module	1213v/02
EUW-IM-01	Wireless Single Channel Input Module Note: 1. The device must be used with the following batteries only: - CR123A (3Vdc) Main Battery - CR2032A (3Vdc) Secondary Battery	1213v/03
EUW-BOM-01	Wireless Single Channel Battery Powered Output Module Note: 1. The device must be used with the following batteries only: - CR123A (3Vdc) Main Battery - CR123A (3Vdc) Secondary Battery	1213v/04

A copy of the certificate, confirming the full scope of approval including notes relating to the superscript references in the above table, may be viewed online by clicking on the product name in the associated entry on www.RedBookLive.com

Fike Safety Technology Ltd

Unit 31, Springvale Industrial Estate, Cwmbran, Gwent NP44 5BD, United Kingdom
Tel: +44 (0)1633 865558 • Fax: +44 (0)1633 866656
E-mail: fstinfo@fike.com • Website: www.fikesafetytechnology.co.uk

Certificate No: 331m to EN 54-17: 2005 & EN 54-18: 2005

Certificated Products		LPCB Ref. No.
803-0006	Sita Input/Output Module	331m/01

A copy of the certificate, confirming the full scope of approval including notes relating to the superscript references in the above table, may be viewed online by clicking on the product name in the associated entry on www.RedBookLive.com

Certificate No: 331k to EN 54-18:2005

Certificated Products		LPCB Ref. No.
802-0006	Twinflex I/O Module	331k/01
803-0010	Sita Conventional Zone Module	331k/02

A copy of the certificate, confirming the full scope of approval including notes relating to the superscript references in the above table, may be viewed online by clicking on the product name in the associated entry on www.RedBookLive.com

Finder Yangin Güvenlik Elektronik Sistemler A.Ş

Kepez Mh, 5071 Sk. No: 10, Kepez, Antalya 07090, Turkey
Tel: +90 242 221 40 07 • Fax: +90 242 259 28 88
E-mail: info@finder.com.tr • Website: www.finder.com.tr

Certificate No: 1450b-(cl-1) to EN 54-18: 2005

Certificated Products		LPCB Ref. No.
FF MIC500	Intelligent Addressable Single Input/Output Module	1450b/01

A copy of the certificate, confirming the full scope of approval including notes relating to the superscript references in the above table, may be viewed online by clicking on the product name in the associated entry on www.RedBookLive.com

Fire Fighter CO Security and Safety Equipment Trading LLC

Al Qusais Industry Area 4, P O Box 84926, Dubai, United Arab Emirates
Tel: 00971-4-2554494
E-mail: mutasem@firefighterco1.ae

Certificate No: 1174h-(cl-4) to EN 54-18: 2005

Line Units

Certificated Products		LPCB Ref. No.
FST-6717	Addressable Monitor Interface (1 Input) (FST-6618 Base) (branded as FST)	1174h/01
FST-6727	Addressable Control Interface (1 Input & 1 Output) (FST-6618 Base) (branded as FST)	1174h/02

Bases
FST-6618 Installation base
A copy of the certificate, confirming the full scope of approval including notes relating to the superscript references in the above table, may be viewed online by clicking on the product name in the associated entry on www.RedBookLive.com

Certificate No: 1174g-(cl-4) to EN 54-17:2005

Certificated Products		LPCB Ref. No.
FST-6777	Addressable Isolator Interface (FST-6618 Base) (branded as FST)	1174g/01

Bases

FST-6618 Installation Base

A copy of the certificate, confirming the full scope of approval including notes relating to the superscript references in the above table, may be viewed online by clicking on the product name in the associated entry on www.RedBookLive.com

---

FIREX Protection System Technology Ltd

28-38 Desborough St, High Wycombe, Buckinghamshire, United Kingdom
Tel: 00971 653 40300 • Fax: 00971 653 40090
E-mail: QC@firexuae.com • Website: www.firexuae.com

Certificate No: 548m-(cl-3) to EN54-18: 2005

Certificated Products		LPCB Ref. No.
FX9300I	Analogue Addressable Input Module	548m/01
FX9301I	Analogue Addressable Single Output Module *Notes:* *1. 4 Wire Mode, 24v active output (Default).* *2. 2 Wire Mode, volt free changeover contact output.*	548m/02
FXI9300E	Addressable Digital Single Input Module	548m/04
FXI9301E	Addressable Digital Single Input and Output Module	548m/05
FXI9305E	Addressable Digital Single Riser Output Module	548m/06
FXI9319E	Addressable Digital Zone Monitor Unit	548m/07
FX9319I	Addressable Zone Monitor Unit	548m/03

B-9310 Back Box
A copy of the certificate, confirming the full scope of approval including notes relating to the superscript references in the above table, may be viewed online by clicking on the product name in the associated entry on www.RedBookLive.com

Certificate No: 548n-(cl-3) to EN 54-17:2005

Certificated Products		LPCB Ref. No.
FX9504E1	Base Mount Isolator	548n/03
FX9503E	Loop Isolator (B-9310 Back Box)	548n/04
FX9503E1	Addressable Loop Isolator	548n/05

Accessories

B-9310 Back Box

A copy of the certificate, confirming the full scope of approval including notes relating to the superscript references in the above table, may be viewed online by clicking on the product name in the associated entry on www.RedBookLive.com

---

Frontier Safety Ltd UK

85 Great Portland Street, London, England W1W 7, United Kingdom
Tel: 00447708000050
E-mail: mikefrontiersafety@gmail.com • Website: www.frontierpumps.com

Certificate No: 1426e-(cl-5) to EN 54-18:2005

Certificated Products		LPCB Ref. No.
FRN 56	Intelligent Addressable Fire Alarm I/O Module (DZ-9056 Base)	1426e/01

Certificated Products		LPCB Ref. No.
FRN 52	Addressable Zone Module	1426e/03

Bases
DZ-9056
DZ-9057

A copy of the certificate, confirming the full scope of approval including notes relating to the superscript references in the above table, may be viewed online by clicking on the product name in the associated entry on www.RedBookLive.com

Certificate No: 991g-(cl-1) to EN 54-17:2005, EN 54-18:2005

Certificated Products		LPCB Ref. No.
EM312SR	Intelligent Analogue Addressable Mini Input / Output Module with Short Circuit Isolator	991g/01

A copy of the certificate, confirming the full scope of approval including notes relating to the superscript references in the above table, may be viewed online by clicking on the product name in the associated entry on www.RedBookLive.com

Certificate No: 1426f-(cl-5) to EN 54-17:2005

Certificated Products		LPCB Ref. No.
FRN 57	Intelligent Addressable Fire Alarm Isolator Module (**DZ-9057** Base**)**	1426f/01

Base:
DZ-9057 Base
A copy of the certificate, confirming the full scope of approval including notes relating to the superscript references in the above table, may be viewed online by clicking on the product name in the associated entry on www.RedBookLive.com

---

Gent By Honeywell (Novar Systems Ltd)

Building 5, Carlton Park, King Edward Avenue, Narborough, Leicester LE19 0AL, United Kingdom
Tel: +44 (0)116 246 2000 • Fax: +44 (0)116 246 2300
E-mail: gent_enquiry@gent.co.uk • Website: www.gent.co.uk

Middle East Sales Enquiries

E-mail: gent.export@honeywell.com

Certificate No: 042cd to EN 54-17:2005

Line Units

Certificated Products		LPCB Ref. No.
S3-ST-RR-BC	Backwards Compatible (MK1) Type A Red Strobe / Red Body with Short Circuit Isolator (S3-DB-R and S3-SB-R Bases)	042cd

Bases:
S3-DB-R S Cubed Deep Base – Red
S3-SB-R S Cubed Shallow Base – Red
A copy of the certificate, confirming the full scope of approval including notes relating to the superscript references in the above table, may be viewed online by clicking on the product name in the associated entry on www.RedBookLive.com

Certificate No: 042ba to EN 54-17: 2005 & EN 54-18: 2005

Line Units

Certificated Products		LPCB Ref. No.
S4-34410	Analogue addressable 1 input interface module with short circuit isolator, low voltage. (S4-34490 and S4-34492 boxes)	042ba/01
S4-34411	Analogue addressable 1 output DIN rail mounting interface module with short circuit isolator, medium voltage.	042ba/02
S4-34415	Analogue addressable 1 output surface mounting interface module with short circuit isolator, medium voltage.	042ba/03
S4-34420	Analogue addressable 1 input and 1 output interface module with short circuit isolator, low voltage. (S4-34490 and S4-34492 boxes)	042ba/04
S4-34450	Analogue addressable 4 input / output interface module with short circuit isolator, low voltage. (S4-34490 and S4-34492 boxes)	042ba/05

Accessories:
S4-34490 Plastic Box
S4-34492 Metal Box

A copy of the certificate, confirming the full scope of approval including notes relating to the superscript references in the above table, may be viewed online by clicking on the product name in the associated entry on www.RedBookLive.com

Certificate No: 042bp to EN54-18:2005, EN54-17:2005, EN54-4:1997+A1:2002 + A2:2006

Line Units

Certificated Products		LPCB Ref. No.
S4-34440-ASD	S4 ASD Mains Powered Interface Unit with Short Circuit Isolator	042bp/03
S4-34440-02	Mains powered Interface Unit (2Ah)	042bp/01
S4-34440-12	Mains powered Interface Unit (12Ah)	042bp/02

A copy of the certificate, confirming the full scope of approval including notes relating to the superscript references in the above table, may be viewed online by clicking on the product name in the associated entry on www.RedBookLive.com

---

GEZE GmbH

Reinhold-Vöster-Str. 21-29, D-71229 Leonberg, Germany
Tel: +49 (0)7152-203-0 • Fax: +49 (0)7152-203-310
E-mail: info.de@geze.com • Website: www.geze.com

Certificate No: 928s-(cl-1) to EN 54-18: 2005

Certificated Products		LPCB Ref. No.
GC150B	Non-latching relay base	928s/01

Gulf Alarm UK Limited

Office 32, 19-21 Crawford Street, London W1H 1PJ, United Kingdom
E-mail: info@gulfalarm.com • Website: www.gulfalarm.com

Certificate No: 1330e-(cl-5) to EN 54-18: 2005

Certificated Products		LPCB Ref. No.
GA7210	Addressable Single Input/Output Module	1330e/01

A copy of the certificate, confirming the full scope of approval including notes relating to the superscript references in the above table, may be viewed online by clicking on the product name in the associated entry on www.RedBookLive.com

Certificate No: 1330f-(cl-5) to EN 54-17:2005

Certificated Products		LPCB Ref. No.
GA7230	Analogue Addressable Isolator Module	1330f/01
GA7232	Base Mount Short Circuit Isolator	1330f/02

A copy of the certificate, confirming the full scope of approval including notes relating to the superscript references in the above table, may be viewed online by clicking on the product name in the associated entry on www.RedBookLive.com

Gulf Security Technology Co., Ltd.

No 80 Changjiang East Road, QETDZ, Qinhuangdao, Hebei Province 066004, China
Tel: +86 0335 8502434 • Fax: +86 0335 8502532
E-mail: sales@carrier.com • Website: www.gst.com.cn

Certificate No: 548m to EN 54-18: 2005

Certificated Products		LPCB Ref. No.
I-9300	Analogue Addressable Input Module	548m/01
I-9301	Analogue Addressable Single Output Module *Note:* *1. 4 Wire Mode, 24v active output (Default).* *2. 2 Wire Mode, volt free changeover contact output.*	548m/02
I-9319	Addressable Zone Monitor Unit	548m/03
DI-9300E	Addressable Digital Single Input Module	548m/04
DI-9301E	Addressable Digital Single Input and Output Module	548m/05
DI-9305E	Addressable Digital Single Riser Output Module	548m/06
DI-9319E	Addressable Digital Zone Monitor Unit	548m/07
DI-9302E	Addressable Digital High Voltage Relay Module	548m/08

Accessories:
B-9310 Back Box
A copy of the certificate, confirming the full scope of approval including notes relating to the superscript references in the above table, may be viewed online by clicking on the product name in the associated entry on www.RedBookLive.com

Certificate No: 548n to EN 54-17:2005

Certificated Products		LPCB Ref. No.
C-9504E	Base Mount Short Circuit Isolator	548n/02
DC-9504E	Base Mount Isolator	548n/03
C-9503E	Loop Isolator (B-9310 Back Box)	548n/04
DC-9503E	Addressable Loop Isolator	548n/05

Accessories

B-9310 Back Box

A copy of the certificate, confirming the full scope of approval including notes relating to the superscript references in the above table, may be viewed online by clicking on the product name in the associated entry on www.RedBookLive.com

Hochiki Europe (UK) Limited

Grosvenor Road, Gillingham Business Park, Gillingham, Kent ME8 0SA, United Kingdom
Tel: +44 (0)1634 260133 • Fax: +44 (0)1634 260132
E-mail: info@hochikieurope.com • Website: www.hochikieurope.com

Certificate No: 164p to EN 54-18:2005

Certificated Products		LPCB Ref. No.
YBO-R/6R	Conventional Latching Relay Base	164p/07
YBO-R/6R(WHT)	Conventional Latching Relay Base White	164p/07
YBO-R/6RS	Conventional Latching Relay Base with Integral Schottky Diode	164p/08
YBO-R/6RS(WHT)	Conventional Latching Relay Base with Integral Schottky Diode White	164p/08

Certificated Products		LPCB Ref. No.
YBO-R/6RN	Conventional Non-Latching Relay Base	164p/09
YNO-R/6RN(WHT)	Conventional Non-Latching Relay Base White	164p/09
CHQ-POM	Intelligent Analogue Addressable Powered Output Module	164p/10
CHQ-SIM	Intelligent Analogue Addressable Single Input Module	164p/11
CHQ-SOM	Intelligent Analogue Addressable Single Output Module	164p/12
CHQ-ISM	Intrinsically Safe Sounder Interface Module Note: 1. Should always be used with an I.S Barrier; further details can be found in the manufacturers Installation Instruction. 2. The CHQ-ISM is not itself intrinsically safe.	164p/13
CHQ-ISM/DIN	Intrinsically Safe Sounder Interface Module (DIN Rail Version) Note: 1. Should always be used with as I.S Barrier; further details can be found in the manufacturers installation instructions. 2. The CHQ-ISM/DIN is not itself intrinsically safe. 3. Device to be installed within a SMB-3 or SMB-2 enclosure.	164p/14
CHQ-FTM	Intelligent Analogue Addressable 4-20mA Input/Output Module Note: 1. Device to be installed within an OEM enclosure.	164p/15
CHQ-FTM/DIN	Intelligent Analogue Addressable 4-20mA Input/Output Module (DIN Rail Version) Note: 1. Device to be installed within a TK-PC 1811(SMB-3) enclosure.	164p/16

A copy of the certificate, confirming the full scope of approval including notes relating to the superscript references in the above table, may be viewed online by clicking on the product name in the associated entry on www.RedBookLive.com

Certificate No: 164q to EN 54-17:2005, EN 54-18:2005

Certificated Products		LPCB Ref. No.
CHQ-SZM/OEM(SCI)	Intelligent Analogue Addressable Single Zone Monitor with Short Circuit Isolator	164q/01
CHQ-SZM/DIN(SCI)	Intelligent Analogue Addressable Single Zone Monitor with Short Circuit Isolator	164q/02
CHQ-DIM/OEM(SCI)	Intelligent Analogue Addressable Dual Input Module with Short Circuit Isolator	164q/03
CHQ-DIM/DIN(SCI)	Intelligent Analogue Addressable Dual Input Module with Short Circuit Isolator (DIN rail version)	164q/04
CHQ-DSC/OEM(SCI)	Intelligent Analogue Addressable Dual Sounder Controller with Short Circuit Isolator	164q/05
CHQ-DSC/DIN(SCI)	Intelligent Analogue Addressable Dual Sounder Controller with Short Circuit Isolator (DIN rail version)	164q/06
CHQ-DRC/OEM(SCI)	Intelligent Analogue Addressable Dual Relay Controller with Short Circuit Isolator	164q/07
CHQ-DRC/DIN(SCI)	Intelligent Analogue Addressable Dual Relay Controller with Short Circuit Isolator (DIN rail version)	164q/08
CHQ-DZM(SCI)	Intelligent Analogue Addressable Dual Zone Monitor with Short Circuit Isolator	164q/09
CHQ-DZM/DIN(SCI)	Intelligent Analogue Addressable Dual Zone Monitor with Short Circuit Isolator (DIN rail version)	164q/10
CHQ-DZM(SCI)-IS	Intelligent Analogue Addressable Intrinsically Safe Dual Zone Monitor with Short Circuit Isolator	164q/11
CHQ-DZM/DIN(SCI)-IS	Intelligent Analogue Addressable Intrinsically Safe Dual Zone Monitor with Short Circuit Isolator (DIN rail version)	164q/12
CHQ-PCM(SCI)	Analogue Addressable 4 Input, 4 Output Plant Control Module with Short Circuit Isolator Note: The device must be in an enclosure as defined in the manufacturers installation manual.	164q/13
CHQ-PCM/DIN(SCI)	Analogue Addressable 4 Input, 4 Output Plant Control Module with Short Circuit Isolator Note: The device must be in an enclosure as defined in the manufacturers installation manual.	164q/14
CHQ-MRC2/DIN(SCI)	Intelligent Analogue Addressable Mains Relay Controller with Short Circuit Isolator Note: The device must be in an enclosure as defined in the manufacturers installation manual.	164q/15
CHQ-MRC2(SCI)	Intelligent Analogue Addressable Mains Relay Controller with Short Circuit Isolator	164q/16
CHQ-DIM2(SCI)	Analogue Addressable Dual Input Module with Short Circuit Isolator	164q/19
CHQ-DIM2/DIN(SCI)	Analogue Addressable Dual Input Module with Short Circuit Isolator (DIN Rail Version)	164q/20
CHQ-DR2(SCI)	Analogue Addressable Dual Relay Controller with Short Circuit Isolator	164q/21
CHQ-DRC2/DIN(SCI)	Analogue Addressable Dual Relay Controller with Short Circuit Isolator (DIN Rail Version)	164q/22
CHQ-SZM2(SCI)	Intelligent Analogue Addressable Single Zone Monitor with Short Circuit Isolator	164q/23
CHQ-SZM2/DIN(SCI)	Intelligent Analogue Addressable Single Zone Monitor with Short Circuit Isolator (DIN Rail Version)	164q/24
CHQ-DSC2(SCI)	Intelligent Analogue Addressable Dual Sounder Controller with Short Circuit Isolator	164q/25
CHQ-DSC2/DIN-(SCI)	Intelligent Analogue Addressable Dual Sounder Controller with Short Circuit Isolator (DIN Rail Version)	164q/26
CHQ-MRC2/FS(SCI)	Intelligent Analogue Addressable Mains Relay Controller with Short Circuit Isolator Fail Safe	164q/27

Certificated Products		LPCB Ref. No.
	Note: The device must be in an enclosure as defined in the manufacturers installation manual.	
CHQ-MRC2/FSDIN(SCI)	Intelligent Analogue Addressable Mains Relay Controller with Short Circuit Isolator (DIN Rail Version) Fail Safe Note: The device must be in an enclosure as defined in the manufacturers installation manual.	164q/28

A copy of the certificate, confirming the full scope of approval including notes relating to the superscript references in the above table, may be viewed online by clicking on the product name in the associated entry on www.RedBookLive.com

Certificate No: 164n to EN 54-17: 2005

Certificated Products		LPCB Ref. No.
YBO-R/SCI(RED)	Short Circuit Isolating Base (RED)	164n/02
YBN-R/3(HFP)-SCI	Short Circuit Isolating Base	164n/05
YBN-R/3(SCI)	Short Circuit Isolating Base	164n/04
YBN-R/3(WHT)-SCI	Short Circuit Isolating Base (white)	164n/05
YBN-R/3(BLK)-SCI	Short Circuit Isolating Base (BLACK)	164n/05

A copy of the certificate, confirming the full scope of approval including notes relating to the superscript references in the above table, may be viewed online by clicking on the product name in the associated entry on www.RedBookLive.com

---

Honeywell

Honeywell House, Arlington Business Park, Bracknell, Berkshire RG12 1EB, United Kingdom
Tel: 01344 655609 • Fax: 01344 655474
Website: www.honeywell.com

Certificate No: 928aa-(cl-2) to EN 54-17: 2005, EN 54-18: 2005, EN 54-25: 2008

Certificated Products		LPCB Ref. No.
TC84RME	Wire to Wireless Translator Interface Module with Short Circuit Isolator (Honeywell Protocol)	928aa/02

Ancillaries:

SIGI-MP1	Mounting Plate
SIGA-MP2	Mounting Plate
SIGA-MP2L	Mounting Plate

A copy of the certificate, confirming the full scope of approval including notes relating to the superscript references in the above table, may be viewed online by clicking on the product name in the associated entry on www.RedBookLive.com

---

Honeywell Control Systems Limited

Honeywell House, Arlington Business Park, Bracknell, Berkshire RG12 1EB, United Kingdom
Tel: +44 (0)1344 655609 • Fax: +44 (0)1344 655474
Website: www.honeywell.com

Certificate No: 199v-(cl-5) to EN 54-17: 2005 & EN 54-18: 2005

Line Units

Certificated Products		LPCB Ref. No.
TC841E1019EIS	Conventional zone monitor module with resistive end of line	199v/08
TC809E1043	Analogue addressable single channel input module with short short circuit isolator	199v/01
TC809E1050	Analogue addressable dual channel input module with short circuit isolator	199v/02
TC809E1068	Analogue addressable dual channel input and single channel output module with short circuit isolator	199v/03
TC810E1032	Single channel output module with short circuit isolator	199v/04
TC810E1040	Single channel 240V output module with short circuit isolator	199v/05
TC810E1057	Single channel 240V output module, DIN rail mount with short circuit isolator	199v/06

Certificated Products		LPCB Ref. No.
TC841E1019	Conventional Zone Interface Module	199v/07
TC810E1040-KO	Single Channel 240V Output Module	199v/09

Honeywell Morley-IAS by Honeywell International (I) Pvt. Ltd.

Sector 36, Pace City - II, Gurgaon, Haryana 122004, India
Tel: +91 124 4752700 • Fax: +91 124 4752750
E-mail: amit.puri@honeywell.com • Website: www.honeywell.com

Certificate No: 550j-(cl-1) to EN 54-17:2005

Line Units

Certificated Products		LPCB Ref. No.
MI-DISO	Analogue Addressable Short Circuit Isolator Module	550j/01

A copy of the certificate, confirming the full scope of approval including notes relating to the superscript references in the above table, may be viewed online by clicking on the product name in the associated entry on www.RedBookLive.com

Certificate No: 550k-(cl-1) to EN 54-17:2005 & EN 54-18:2005

certs/500-599/C550k-(cl-1)-02 Honeywell Morley-IAS.pdf

Certificated Products		LPCB Ref. No.
MI-DMMI	Analogue Addressable Single Channel Input Module with Short Circuit Isolator	550k/01
MI-DMM2I	Analogue Addressable Dual Channel Input Module with Short Circuit Isolator	550k/02
MI-D2ICMO	Analogue Addressable Dual Channel Input and Single Channel Output Module with Short Circuit Isolator	550k/03
MI-DCMO	Single Channel Output Module with Short Circuit Isolator	550k/04
MI-D240CMO	Single Channel 240V Output Module with Short Circuit Isolator	550k/05
MI-D240CMO-DIN	Single Channel 240V Output Module, DIN Rail Mount with Short Circuit Isolator	550k/06
MI-DCZRM	Conventional Zone Monitor Module with Resistive End of Line	550k/07

A copy of the certificate, confirming the full scope of approval including notes relating to the superscript references in the above table, may be viewed online by clicking on the product name in the associated entry on www.RedBookLive.com

Honeywell Products & Solutions Sàrl (Trading as System Sensor Europe)

Zone d'activitiés La Pièce 16, CH-1180, Rolle, Switzerland
Tel: +41 44 943 4424 • Fax: +41 44 943 4399
E-mail: sse.marketing@systemsensor.com • Website: www.systemsensoreurope.com

European Sales:
System Sensor Europe, Life Safety Distribution AG, Wilstrasse 11 (Building U31), CH-8610 Uster, Switzerland
Tel: +41 44 943 4424 • Fax: +41 44 943 4399
E-mail: sse.marketing@systemsensor.com • Website: www.systemsensor.com

Certificate No: 199v-(cl-2) to EN 54-17: 2005 & EN 54-18: 2005

Line Units

Certificated Products		LPCB Ref. No.
M210E	Analogue Addressable single channel input module with short circuit isolator	199v/01
M220E	Analogue addressable dual channel input module with short circuit isolator	199v/02
M221E	Analogue addressable dual channel input and single channel output module with short circuit isolator	199v/03
M201E	Single channel output module with short circuit isolator	199v/04
M201E-240	Single channel 240V output module with short circuit isolator	199v/05

Certificated Products		LPCB Ref. No.
M201E-240-DIN	Single channel 240V output module, DIN rail mount with short circuit isolator	199v/06
M210E-CZ	Conventional zone interface module	199v/07
M210E-CZR	Conventional zone monitor module with resistive end of line *Will be labelled as M210E-CZR-yy, where yy indicates the protocol identifier option value between 00 and 99.*	199v/08
M201E-240-KO	Single Channel 240V Output Module	199v/09

A copy of the certificate, confirming the full scope of approval including notes relating to the superscript references in the above table, may be viewed online by clicking on the product name in the associated entry on www.RedBookLive.com

Certificate No: 199r-(cl-1) to EN 54-17:2005

Line Units

Certificated Products		LPCB Ref. No.
M200XE	Short Circuit Isolator Module	199r/01

A copy of the certificate, confirming the full scope of approval including notes relating to the superscript references in the above table, may be viewed online by clicking on the product name in the associated entry on www.RedBookLive.com

Certificate No: 199x-(cl-1) to EN 54-17: 2005

Line Units

Certificated Products		LPCB Ref. No.
B524IEFT-1	Short Circuit Isolator Base	199x/01
ISO524-1	Short Circuit Isolator Module	199x/02

A copy of the certificate, confirming the full scope of approval including notes relating to the superscript references in the above table, may be viewed online by clicking on the product name in the associated entry on www.RedBookLive.com

Certificate No: 567am-(cl-2) to EN 54-17:2005

Line Units

Certificated Products		LPCB Ref. No.
BST-xx-Iyy	Analogue Addressable Base LED Strobes with Short Circuit Isolator (B501AP) Notes: 1. Not approved to EN 54-23:2010 2. xx indicates colour of body and lens 3. First x indicates body colour. D=Detector White, P=Pure White 4. Second x indicates lens colour. C=Clear, A=Amber, R=Red 5. yy indicates customer and associated communication protocol. 01 indicates Advanced Protocol (and Honeywell 500 series protocol) 00 and 02-99 indicates Advanced Protocol (and System Sensor 500 series protocol)	567am/02
WST-xx-Iyy	Analogue Addressable Wall Mounted LED Strobes with Short Circuit Isolator (B501AP) Notes: 1. Not approved to EN 54-23:2010 2. xx indicates colour of body and lens 3. First x indicates body colour. D=Detector White, P=Pure White 4. Second x indicates lens colour. A=Amber, R=Red 5. yy indicates customer and associated communication protocol. 01 indicates Advanced Protocol (and Honeywell 500 series protocol) 00 and 02-99 indicates Advanced Protocol (and System Sensor 500 series protocol)	567am/03

Bases
B501AP Mounting base
A copy of the certificate, confirming the full scope of approval including notes relating to the superscript references in the above table, may be viewed online by clicking on the product name in the associated entry on www.RedBookLive.com

Hyfire Wireless Fire Solutions Limited

Unit B12a, Holly Farm Business Park, Honiley, Warwickshire CV8 1NP, United Kingdom
Tel: +44(0)1926485282 • Fax: +44(0)1926485090
E-mail: info@hyfirewireless.co.uk • Website: www.hyfirewireless.com

Certificate No: 928n-(cl-6) to EN 54-18: 2005, EN 54-17: 2005 and EN 54-25: 2008

Certificated Products		LPCB Ref. No.
HFW-W2W-01	Wire to wireless translator module	928n/01

A copy of the certificate, confirming the full scope of approval including notes relating to the superscript references in the above table, may be viewed online by clicking on the product name in the associated entry on www.RedBookLive.com

Certificate No: 928r-(cl-5) to EN 54-18:2005,EN 54-25:2008

Certificated Products		LPCB Ref. No.
HFW-CEM-02	Wireless Conventional System Expander Module	928r/01
HFW-EM-01	Wireless Expander Module	928r/02
HFW-BOM-03	Wireless Battery Powered Output Module1. The device must be used with the following batteries only: - CR123A (3Vdc) Main Battery - CR123A (3Vdc) Secondary Battery	928r/03
HFW-IM-03	Wireless Battery Powered Input Module 1. The device must be used with the following batteries only: - CR123A (3Vdc) Main Battery - CR2032A (3Vdc) Secondary Battery	928r/04
HFW-W2W-E-01	Wire to Wireless Dynamic Translator Module	928r/05

A copy of the certificate, confirming the full scope of approval including notes relating to the superscript references in the above table, may be viewed online by clicking on the product name in the associated entry on www.RedBookLive.com

INIM Electronics S.R.L

Via Dei Lavoratori 10, Frazione Centobuchi, Monteprandone (AP) 63076, Italy
Tel: +39 0735 705007 • Fax: +39 0735 704912
E-mail: info@inim.biz • Website: www.inim.biz

Certificate No: 991g to EN 54-17:2005, EN 54-18:2005

Certificated Products		LPCB Ref. No.
EM312SR	Intelligent Analogue Addressable Mini Input / Output Module with Short Circuit Isolator	991g/01
EU311	Intelligent Analogue Addressable Micro Input / Output Module with Short Circuit Isolator	991g/02
EM344S	Intelligent Analogue Addressable 4 Input / 4 Supervised Output Module with Short Circuit Isolator	991g/03
EM344R	Intelligent Analogue Addressable 4 Input / 4 Relay Output Module with Short Circuit Isolator	991g/04
EM340	Intelligent Analogue Addressable 4 Input Module with Short Circuit Isolator	991g/05
EM304S	Intelligent Analogue Addressable 4 Supervised Output Module with Short Circuit Isolator	991g/06
EM304R	Intelligent Analogue Addressable 4 Relay Output Module with Short Circuit Isolator	991g/07

A copy of the certificate, confirming the full scope of approval including notes relating to the superscript references in the above table, may be viewed online by clicking on the product name in the associated entry on www.RedBookLive.com

Ketton Power & Safety Ltd

82A James Carter Road, Mildenhall Industrial Estate, Mildenhall, Bury St Edmonds, Suffolk IP28 7DE, United Kingdom
Tel: +905363978385
E-mail: Info@kettonfire.co.uk

Certificate No: 1450b-(cl-4) to EN 54-18:2005

Certificated Products		LPCB Ref. No.
KET-DIM-240	Addressable Dual Input Module	1450b/02
KET-IOM-220	Addressable Input/Output Module	1450b/03

Base
KET-IOB-240 Detector Base
KET-IMB-230 Detector Base

A copy of the certificate, confirming the full scope of approval including notes relating to the superscript references in the above table, may be viewed online by clicking on the product name in the associated entry on www.RedBookLive.com

Certificate No: 1450f-(cl-3) to EN 54-17:2005

Certificated Products		LPCB Ref. No.
KET-ISM-200	Loop Isolator (KET-ISM-200 Base)	1450f/01
KET-BI-280	Isolating Base	1450f/02

Base
KET-ISM-200 Base

A copy of the certificate, confirming the full scope of approval including notes relating to the superscript references in the above table, may be viewed online by clicking on the product name in the associated entry on www.RedBookLive.com

KMW Systems S.R.L.

Str.Sambetei, Nr. 6 Iasi, , Romania
Tel: 0040232247288
E-mail: marius.gavriluta@kmw.ro

Certificate No: 1174g-(cl-5) to EN 54-17:2005

Line Units

Approved Products		LPCB Ref. No.
KM-FA6420	Addressable Isolator Interface (KM-FA6401 base) *Base* *KM-FA6401 Installation Base*	1174g/01

A copy of the certificate, confirming the full scope of approval including notes relating to the superscript references in the above table, may be viewed online by clicking on the product name in the associated entry on www.RedBookLive.com

Certificate No: 1174h-(cl-5) to EN 54-18:2005

Certificated Products		LPCB Ref. No.
KM-FA6400	Addressable Monitor Interface (1 Input) (KM-FA6401 Base)	1174h/01
KM-FA6410	Addressable Control Interface (1 Input & 1 Output) (KM-FA6401 Base)	1174h/02

Base
KM-FA6401 Installation Base

A copy of the certificate, confirming the full scope of approval including notes relating to the superscript references in the above table, may be viewed online by clicking on the product name in the associated entry on www.RedBookLive.com

---

Labor Strauss Sicherungsanlagenbau GmbH

Wiegelestrasse 36, A-1231 Vienna, Austria
Tel: +43 1 52114-44 • Fax: +43 1 52114-27
E-mail: andreas.schumacher@lst.at • Website: www.laborstrauss.com

Certificate No: 928r-(cl-9) to EN 54-18:2005 EN 54-25:2008

Certificated Products		LPCB Ref. No.
FI720/RF/WE	Wireless Expander Module	928r/02
FI720/RF/CWE	Wireless Conventional System Expander Module	928r/01

A copy of the certificate, confirming the full scope of approval including notes relating to the superscript references in the above table, may be viewed online by clicking on the product name in the associated entry on www.RedBookLive.com

Certificate No: 928n-(cl-8) to EN 54-17:2005, EN 54-18:2005, EN 54-25:2008

Certificated Products		LPCB Ref. No.
FI720/RF/W2W	Wire to Wireless Translator Module	928n/01

A copy of the certificate, confirming the full scope of approval including notes relating to the superscript references in the above table, may be viewed online by clicking on the product name in the associated entry on www.RedBookLive.com

---

Lichfield Fire & Safety Equipment Co. Ltd

Unit 8, Calibre Industrial Park, Laches Close, Four Ashes, Wolverhampton WV10 7DZ, United Kingdom
Tel: +44 (0) 1902 798 706 • Fax: +44 (0) 1902 798 679
E-mail: info@lifeco-uk.com • Website: www.lifeco-uk.com

Certificate No: 1330e-(cl-6) to EN 54-18:2005

Input/Output Devices

Certificated Products		LPCB Ref. No.
LF-X5210	Addressable Single Input/Output Module	1330e/01

A copy of the certificate, confirming the full scope of approval including notes relating to the superscript references in the above table, may be viewed online by clicking on the product name in the associated entry on www.RedBookLive.com

Certificate No: 1330f-(cl-6) to EN 54-17:2005

Certificated Products		LPCB Ref. No.
LF-X5230	Analogue Addressable Isolator Module	1330f/01
LF-X5232	Base Mount Short Circuit Isolator	1330f/02

A copy of the certificate, confirming the full scope of approval including notes relating to the superscript references in the above table, may be viewed online by clicking on the product name in the associated entry on www.RedBookLive.com

Mavili Elektronik Ticaret Ve Sanayi A.S.

Serifali Mah, Kutup Sok, No: 27:, 1-2-4 Ümraniye, Istanbul TR 34775, Turkey
Tel: +90 216 4664 505 • Fax: +90 216 4664 510
E-mail: mavili@mavili.com.tr • Website: www.mavili.com.tr

Certificate No: 926f to EN 54-17:2005 & EN 54-18:2005

Certificated Products		LPCB Ref. No.
ML-1361.SCI	Maxlogic Intelligent Addressable System Relay Control Module	926f/01
ML-1362.SCI	Maxlogic Intelligent Addressable System Switch Monitor Module	926f/02
ML-1363.SCI	Maxlogic Intelligent Addressable System 2 Input / 1 Output Module	926f/03
ML-1366.SCI	Maxlogic Intelligent Addressable System 4 Input / 2 Output Module	926f/04
ML-1371.SCI	Maxlogic Intelligent Addressable Sounder Control Module	926f/05
ML-1372.SCI	Maxlogic Intelligent Addressable Zone Control Module	926f/06
ML-1373.SCI	Maxlogic Intelligent Addressable 2 Input / 1 Output Module	926f/07

Ancillaries
ML-0320 Plastic Box

A copy of the certificate, confirming the full scope of approval including notes relating to the superscript references in the above table, may be viewed online by clicking on the product name in the associated entry on www.RedBookLive.com

Certificate No: 926g to EN 54-17:2005

Certificated Products		LPCB Ref. No.
ML-1380	Maxlogic Intelligent Addressable System Short Circuit Isolator	926g/01

Ancillaries
ML-0320 Plastic Box

A copy of the certificate, confirming the full scope of approval including notes relating to the superscript references in the above table, may be viewed online by clicking on the product name in the associated entry on www.RedBookLive.com

Certificate No: 926e to EN 54-18:2005

Certificated Products		LPCB Ref. No.
ML-1361	Maxlogic Intelligent Addressable System Relay Control Module	926e/01
ML-1362	Maxlogic Intelligent Addressable System Switch Monitor Module	926e/02
ML-1363	Maxlogic Intelligent Addressable System 2 Input / 1 Output Module	926e/03
ML-1366	Maxlogic Intelligent Addressable System 4 Input / 2 Output Module	926e/04
ML-1371	Maxlogic Intelligent Addressable Sounder Control Module	926e/05
ML-1372	Maxlogic Intelligent Addressable Zone Control Module	926e/06
ML-1373	Maxlogic Intelligent Addressable 2 Input / 1 Output Module	926e/07

Ancillaries
ML-0320 Plastic Box

A copy of the certificate, confirming the full scope of approval including notes relating to the superscript references in the above table, may be viewed online by clicking on the product name in the associated entry on www.RedBookLive.com

Morley IAS by Honeywell

Caburn House, 2B Brooks Road, Lewes BN7 2BY, United Kingdom
Tel: +44(0)1273 897000 • Fax: +44(0) 1273 376894
E-mail: sales@morleysias.co.uk • Website: http://www.morley-ias.co.uk

Certificate No: 928aa-(cl-3) to EN 54-17: 2005, EN 54-18: 2005, EN 54-25: 2008

Certificated Products		LPCB Ref. No.
MIW-INT	Wire to Wireless Translator Interface Module with Short Circuit Isolator (Morley Protocol)	928aa/03

A copy of the certificate, confirming the full scope of approval including notes relating to the superscript references in the above table, may be viewed online by clicking on the product name in the associated entry on www.RedBookLive.com

---

Morley-IAS by Honeywell, Pittway Tecnologica Srl

Via Caboto 19/3, Trieste 34147, Italy
Tel: +44 (0)1444 230300 • Fax: +44 (0)1444 230888
E-mail: sales@morleyias.co.uk • Website: www.morley-ias.co.uk

Certificate No: 199r-(cl-2) to EN 54-17:2005

Line Units

Certificated Products		LPCB Ref. No.
MI-DISO	Short Circuit Isolator Module	199r/01

A copy of the certificate, confirming the full scope of approval including notes relating to the superscript references in the above table, may be viewed online by clicking on the product name in the associated entry on www.RedBookLive.com

Certificate No: 567am-(cl-3) to EN 54-17:2005

Line Units

Certificated Products		LPCB Ref. No.
MI-WST-PR-I	Analogue Addressable Wall Mounted LED Strobes with Short Circuit Isolator (B501AP) Note: 1. Not approved to EN 54-23:2010	567am/03

Bases
B501AP Mounting base
A copy of the certificate, confirming the full scope of approval including notes relating to the superscript references in the above table, may be viewed online by clicking on the product name in the associated entry on www.RedBookLive.com

Certificate No: 199v-(cl-3) to EN 54-17: 2005 & EN 54-18: 2005

Certificated Products		LPCB Ref. No.
MI-DMMI	Analogue addressable single channel input module with short circuit isolator	199v/01
MI-DMM2I	Analogue addressable dual channel input module with short circuit isolator	199v/02
MI-D2ICMO	Analogue addressable dual channel input and single channel output module with short circuit isolator	199v/03
MI-DCMO	Single channel output module with short circuit isolator	199v/04
MI-D240CMO	Single channel 240V output module with short circuit isolator	199v/05
MI-240CMO-DIN	Single channel 240V output module, DIN rail mount with short circuit isolator	199v/06
MI-DCZM	Conventional zone interface module	199v/07
MI-DCZRM	Conventional zone monitor module with resistive end of line	199v/08
MI-D240CMO-KO	Single Channel 240V Output Module	199v/09

A copy of the certificate, confirming the full scope of approval including notes relating to the superscript references in the above table, may be viewed online by clicking on the product name in the associated entry on www.RedBookLive.com

Multron Systems Pte Ltd

217 Kallang Bahru #02-00, Multron Building, Singapore 339 347, Singapore
Tel: +65 6743 2555 / 6395 6868 • Fax: +65 6743 2777 / 6395 6869
E-mail: info@multron.com • Website: www.multron.com

Certificate No: 1330e-(cl-3) to EN 54-18:2005

Certificated Products		LPCB Ref. No.
MX210	Addressable Single Input/Output Module	1330e/01

A copy of the certificate, confirming the full scope of approval including notes relating to the superscript references in the above table, may be viewed online by clicking on the product name in the associated entry on www.RedBookLive.com

Certificate No: 1330f-(cl-3) to EN 54-17:2005

Certificated Products		LPCB Ref. No.
MX230	Analogue Addressable Isolator Module	1330f/01
MX232	Base Mount Short Circuit Isolator	1330f/02

A copy of the certificate, confirming the full scope of approval including notes relating to the superscript references in the above table, may be viewed online by clicking on the product name in the associated entry on www.RedBookLive.com

Notifier by Honeywell

Caburn House, 2B Brooks Road, Lewes BN7 2BY, United Kingdom
Tel: +44 (0)1444 230300 • Fax: +44 (0)1444 230888
E-mail: sales@notifiersystems.co.uk • Website: www.notifierfiresystems.co.uk

Certificate No: 928aa-(cl-1) to EN 54-17: 2005, EN 54-18: 2005, EN 54-25: 2008

Certificated Products		LPCB Ref. No.
IDP-RM1	Wire to Wireless Translator Interface Module with Short Circuit Isolator (Notifier Protocol)	928aa/01

A copy of the certificate, confirming the full scope of approval including notes relating to the superscript references in the above table, may be viewed online by clicking on the product name in the associated entry on www.RedBookLive.com

Notifier by Honeywell, Pittway Tecnologica Srl

Via Caboto 19/3, Trieste 34147, Italy
Tel: +44 (0)1444 230300 • Fax: +44 (0)1444 230888
E-mail: sales@notifiersystems.co.uk • Website: www.notifierfiresystems.co.uk

Certificate No: 199v-(cl-4) to EN 54-17: 2005 & EN 54-18: 2005

Line Units

Certificated Products		LPCB Ref. No.
M710	Analogue addressable single channel input module with short circuit isolator	199v/01
M720	Analogue addressable dual channel input module with short circuit isolator	199v/02
M721	Analogue addressable dual channel input and single channel output module with short circuit isolator	199v/03
M701	Single channel output module with short circuit isolator	199v/04
M701-240	Single channel 240V output module with short circuit isolator	199v/05
M701-240-DIN	Single channel 240V output module, DIN rail mount with short circuit isolator	199v/06
M710-CZR	Conventional zone monitor module with resistive end of line	199v/08
M701-240-KO	Single Channel 240V Output Module	199v/09

A copy of the certificate, confirming the full scope of approval including notes relating to the superscript references in the above table, may be viewed online by clicking on the product name in the associated entry on www.RedBookLive.com

Certificate No: 199r-(cl-3) to EN 54-17:2005

Line Units

Certificated Products		LPCB Ref. No.
M700X	Short Circuit Isolator Module	199r/01

A copy of the certificate, confirming the full scope of approval including notes relating to the superscript references in the above table, may be viewed online by clicking on the product name in the associated entry on www.RedBookLive.com

Certificate No: 567am-(cl-1) to EN 54-17:2005

Line Units

Certificated Products		LPCB Ref. No.
NFXI-BF-WC	Analogue Addressable Base LED Strobes with Short Circuit Isolator (B501AP) Note: 1. Not approved to EN 54-23:2010	567am/02
NFXI-WF-AA	Analogue Addressable Wall Mounted LED Strobes with Short Circuit Isolator (B501AP) Note: 1. Not approved to EN 54-23:2010	567am/03

Bases
B501AP Mounting base

A copy of the certificate, confirming the full scope of approval including notes relating to the superscript references in the above table, may be viewed online by clicking on the product name in the associated entry on www.RedBookLive.com

---

NOTOFIRE PVT LTD

C-146, Ground Floor, Block C, Sector 63, NOIDA, Gautam Buddha Nagar,, Uttar Pradesh 201301, India
Tel: +919999991525
E-mail: indianotofire@gmail.com • Website: www.no2fire.com

Certificate No: 1450b-(cl-2) to EN 54-18: 2005

Certificated Products		LPCB Ref. No.
NF5263	Addressable Single Input/Output Module	1450b/01
NF5260	Loop Isolator	1450f/01

Base
NF5263
NF5260
A copy of the certificate, confirming the full scope of approval including notes relating to the superscript references in the above table, may be viewed online by clicking on the product name in the associated entry on www.RedBookLive.com

Certificate No: 1450f-(cl-1) to EN 54-17:2005

Certificated Products		LPCB Ref. No.
NF5260	Loop Isolator (NF5260 Detector Base)	1450f/01

A copy of the certificate, confirming the full scope of approval including notes relating to the superscript references in the above table, may be viewed online by clicking on the product name in the associated entry on www.RedBookLive.com

NSC Sicherheitstechnik GmbH

Lange Wand 3, Bielefeld D33719, Germany
Tel: +49521136290
E-mail: info@nsc-sicherheit.de • Website: www.nsc-sicherheit.de

Certificate No: 010ah-(cl-9) to EN 54-17:2005 & EN 54-18:2005

Line Units

Certificated Products		LPCB Ref. No.
B02947-64	Intelligent Switch Monitor (45681-400 Backbox)	010ah/11
B02940-64	Intelligent Input/Output Unit (45681-400 Backbox) Note: 1. Approved for use with Omron relay part number: G6KU2FYTR12DC and Fujitsu part number: FTR-B3GB012Z	010ah/13
B02944-64	Intelligent Mains Switching Input/Output Unit (45681-400 Backbox)	010ah/19
B02942-64	Intelligent Twin Input/Output Unit (45681-400 Backbox) Note: 1. Approved for use with Omron relay part number: G6KU2FYTR12DC and Fujitsu part number: FTR-B3GB012Z	010ah/21
B02949-64	Intelligent Twin Switch Monitor (45681-400 Backbox)	010ah/22

Ancillaries

45681-400 Intelligent Interface Backbox

A copy of the certificate, confirming the full scope of approval including notes relating to the superscript references in the above table, may be viewed online by clicking on the product name in the associated entry on www.RedBookLive.com

PT.Servvo Fire Indonesia

Pusat Niaga Roxy Mas Blok D5/17,, Jl.K.H. Hasyim Ashari Blok 125, Cideng, Gambir, Jakarta Pusat, DKI Jakarta Raya 10150, Indonesia
Tel: +62216330330
E-mail: info@servvo.com Info@servvo.co.id • Website: www.servvo.com or www.servvo.co.id

Certificate No: 1426e-(cl-4) to EN 54-18: 2005

Certificated Products		LPCB Ref. No.
SDM 767	Addressable I/O Module (DZ-9056 Base)	1426e/01

Base

DZ-9056
DZ-9057
A copy of the certificate, confirming the full scope of approval including notes relating to the superscript references in the above table, may be viewed online by clicking on the product name in the associated entry on www.RedBookLive.com

Certificate No: 1426f-(cl-4) to EN 54-17:2005

Certificated Products		LPCB Ref. No.
SIM 718	Loop Isolator (DZ-9057 Base)	1426f/01

Base:
DZ-9057 Base
A copy of the certificate, confirming the full scope of approval including notes relating to the superscript references in the above table, may be viewed online by clicking on the product name in the associated entry on www.RedBookLive.com

Schneider Electric Fire & Security Oy

Sokerilinnantie 11C, 02600, Espoo, Finland
Tel: +358 10 446 511 • Fax: +358 10 446 5103
E-mail: FI-FireSecurity-Info@schneider-electric.com • Website: www.schneider-electric.com

Certificate No: 199x to EN 54-17: 2005
Certificate No: 199v to EN 54-17: 2005 and EN 54-18: 2005

Certificated Products		LPCB Ref. No.
EMISO524	Short circuit isolator	199x/02
EM210ECZ	Conventional zone interface module	199v/07
EM210E-CZR	Conventional zone monitor module with resistive end of line	199v/08

FFS06720330	Backbox
FFS06720331	DIN Tub

Certificate No: 010aa-(cl-2) to EN 54-17: 2005

Line Units

Certificated Products		LPCB Ref. No.
EMI-400	Intellia DIN-rail dual isolator	010aa/06

A copy of the certificate, confirming the full scope of approval including notes relating to the superscript references in the above table, may be viewed online by clicking on the product name in the associated entry on www.RedBookLive.com

Certificate No: 010ah-(cl-1) to EN 54-18: 2005 and EN 54-17: 2005

Line Units

Certificated Products		LPCB Ref. No.
EMI-410/CZ	Intellia DIN-rail conventional zone module with isolator	010ah/02
EMI-310/CZ	Intellia conventional zone monitor module with isolator	010ah/05
EMI-301/S	Intellia sounder control module with isolator	010ah/08
EME210-I	ESMI Essentia Switch Monitor EME210-I (FFS06720330 Backbox)	010ah/11
EME214-I	ESMI Essentia DIN-Rail Switch Monitor EME214-I (FFS06720331 DIN Tub)	010ah/12
EME212-I	ESMI Essentia Input/Output Unit EME212-I (FFS06720330 Backbox) Note: 1. Approved for use with Omron relay part number: G6KU2FYTR12DC and Fujitsu part number: FTR-B3GB012Z	010ah/13
EME213-I	ESMI Essentia DIN-Rail Input/Ouput Unit EME213-I (FFS06720331 DIN Tub) Note: 1. Approved for use with Omron relay part number: G6KU2FYTR12DC and Fujitsu part number: FTR-B3GB012Z	010ah/14
EME215-I	ESMI Essentia Mains Switching Input/Output Unit EME215-I (FFS06720330 Backbox)	010ah/19
EME216-I	ESMI Essentia Twin Input/Output Unit EME216-I (FFS06720330 Backbox) Note: 1. Approved for use with Omron relay part number: G6KU2FYTR12DC and Fujitsu part number: FTR-B3GB012Z	010ah/21
EME211-I	ESMI Essentia Twin Switch Monitor EME211-I (FFS06720330 Backbox)	010ah/22

FFS06720330	Backbox
FFS06720331	DIN Tub

A copy of the certificate, confirming the full scope of approval including notes relating to the superscript references in the above table, may be viewed online by clicking on the product name in the associated entry on www.RedBookLive.com

Shenzhen HTI Sanjiang Electronics CO., Ltd

3/F., Guangcai Xintiandi Mansion, Nanshan Road, Nanshan District, Shenzhen, Guangdong 51804, China
Tel: +86 755 26521071
E-mail: shuxian.wei@fhsjdz.com

Certificate No: 1426e-(cl-2) to EN 54-18:2005

Certificated Products		LPCB Ref. No.
A9056T	Addressable I/O Module (DZ-9056 Base)	1426e/01
A9057T	Loop Isolator	1426f/01
A9058T	Addressable I/O Module (DZ-9058 Base)	1426e/02
A9052T	Addressable Zone Module	1426e/03

Base
DZ-9057
DZ-9058
A copy of the certificate, confirming the full scope of approval including notes relating to the superscript references in the above table, may be viewed online by clicking on the product name in the associated entry on www.RedBookLive.com

Certificate No: 1426f-(cl-2) to EN 54-17:2005

Certificated Products		LPCB Ref. No.
A9057T	Loop Isolator (**DZ-9057** Base**)**	1426f/01

Base:
DZ-9057 Base
A copy of the certificate, confirming the full scope of approval including notes relating to the superscript references in the above table, may be viewed online by clicking on the product name in the associated entry on www.RedBookLive.com

Shield Fire, Safety & Security Ltd

Genesis, Unit 3, Endeavour Drive, Basildon SS14 3WF, United Kingdom
Tel: 01708 377 731 • Fax: 01708 347 637
E-mail: shielduk@shieldglobal.com • Website: www.shieldglobal.com

Certificate No: 928n-(cl-10) to EN 54-17: 2005, EN 54-18: 2005, EN 54-25: 2008

Certificated Products		LPCB Ref. No.
SW-2210	Wire to Wireless Translator Module	928n/01

A copy of the certificate, confirming the full scope of approval including notes relating to the superscript references in the above table, may be viewed online by clicking on the product name in the associated entry on www.RedBookLive.com

Certificate No: 928r-(cl-11) to EN 54-18:2005, EN 54-25:2008

Certificated Products		LPCB Ref. No.
SW-2230	Wireless Conventional System Expander Module	928r/01
SW-2220	Wireless Expander Module	928r/02
SW-6310	Wireless Battery Powered Output Module 1. The device must be used with the following batteries only: - CR123A (3Vdc) Main Battery - CR123A (3Vdc) Secondary Battery	928r/03
SW-6210	Wireless Battery Powered Input Module 1. The device must be used with the following batteries only: - CR123A (3Vdc) Main Battery - CR2032A (3Vdc) Secondary Battery	928r/04

A copy of the certificate, confirming the full scope of approval including notes relating to the superscript references in the above table, may be viewed online by clicking on the product name in the associated entry on www.RedBookLive.com

SHIELD FIRE, SAFETY AND SECURITY LIMITED

Unit 3 Endeavour Drive, Basildon, Essex SS14 3WF, United Kingdom
Tel: +44 1708 377731 • Fax: +44 1708 347637
E-mail: shielduk@shieldglobal.com • Website: www.shieldglobal.com

Certificate No: 010ah-(cl-7) to EN 54-18: 2005 & EN 54-17: 2005

Line Units

Certificated Products		LPCB Ref. No.
SEN-A4044	Analogue Addressable Zone Monitor Unit with Isolator	010ah/05
SEN-A4042	Analogue Addressable Mini Switch Monitor with Isolator	010ah/09
TEN-A6061	Intelligent Switch Monitor (TEN-A9099 Backbox)	010ah/11
TEN-A6065	Intelligent DIN-Rail Switch Monitor (TEN-A9098 DIN Tub)	010ah/12
TEN-A6062	Intelligent Input / Output Unit (TEN-A9099 Backbox) Note: 1. Approved for use with Omron relay part number: G6KU2FYTR12DC and Fujitsu part number: FTR-B3GB012Z	010ah/13
TEN-A6066	Intelligent DIN-Rail Input / Output Unit (TEN-A9098 DIN Tub) Note: 1. Approved for use with Omron relay part number: G6KU2FYTR12DC and Fujitsu part number: FTR-B3GB012Z	010ah/14
TEN-A6063	Intelligent Mains Switching Input / Output Unit (TEN-A9099 Backbox)	010ah/19
TEN-A6064	Intelligent Twin Input / Output Unit (TEN-A9099 Backbox) Note: 1. Approved for use with Omron relay part number: G6KU2FYTR12DC and Fujitsu part number: FTR-B3GB012Z	010ah/21
TEN-A6067	Intelligent Twin Switch Monitor (TEN-A9099 Backbox)	010ah/22
SIL-A6061	SIL Input/Output Unit with Isolator	010ah/06

Accessories:
B-9310 Back Box
TEN-A9099 Backbox
TEN-A9098 DIN Tub

A copy of the certificate, confirming the full scope of approval including notes relating to the superscript references in the above table, may be viewed online by clicking on the product name in the associated entry on www.RedBookLive.com

Certificate No: 010aa-(cl-4) to EN 54-17: 2005

Line Units

Certificated Products		LPCB Ref. No.
SEN-A4002	Short Circuit Isolating Base	010aa/01
SEN-A4003	Negative Short Circuit Isolator (SEN-A4004 Base)	010aa/05
SEN-A4025	Enhanced Deep Isolating Base (Red)	010aa/08

Base:
SEN-A4004 Addressable base

A copy of the certificate, confirming the full scope of approval including notes relating to the superscript references in the above table, may be viewed online by clicking on the product name in the associated entry on www.RedBookLive.com

SHIELD FIRE, SAFETY AND SECURITY LTD

Unit 3 Endeavour Drive, Basildon, Essex SS14 3WF, United Kingdom
Tel: +44 207 712 1610 • Fax: +44 207 712 1578
E-mail: shielduk@shieldglobal.com • Website: www.shieldglobal.com

Certificate No: 010ag-(cl-4) to EN 54-18: 2005

Line Units

Certificated Products		LPCB Ref. No.
SIL-A9099	SIL I.S. Protocol Translator (Single) Note: 1. To ensure compliance is maintained, all connecting cables to the protocol translator shall be less than 3m.	010ag/14

A copy of the certificate, confirming the full scope of approval including notes relating to the superscript references in the above table, may be viewed online by clicking on the product name in the associated entry on www.RedBookLive.com

---

Siemens Switzerland Ltd

Theilerstrasse 1a, , CH-6300 Zug, Switzerland
Website: www.siemens.com

Certificate No: 126bm to EN 54-17:2005, EN 54-18:2005

Certificated Products		LPCB Ref. No.
DC1192	Input/Output Module with Short Circuit Isolator	126bm/02

Accessories:
F50F410 LED flat cable
520379 AC/AC Transformer
FDCH221 Enclosure
FDCM291 Mounting foot
TS35 Standard top hat rail
FDCH221 Housing
A copy of the certificate, confirming the full scope of approval including notes relating to the superscript references in the above table, may be viewed online by clicking on the product name in the associated entry on www.RedBookLive.com

Certificate No: 126bp to EN 54-17:2005, EN 54-18:2005

Certificated Products		LPCB Ref. No.
FT2001-A1	Digital Addressable Mimic Display Driver(F50F410, 520379)Note 1: Approved when used with a metal enclosure at least complying with protection class IP30 and weighing at least 4.5kg.	126bp/01
FT2010-A1	Floor Repeater Terminal	126bp/02
FT2011-A1	Floor Repeated Display	126bp/03
FT2010-C1	Floor Repeater Terminal with Flat Rear Panel	126bp/04

Accessories:
F50F410 LED flat cable
520379 AC/AC Transformer

A copy of the certificate, confirming the full scope of approval including notes relating to the superscript references in the above table, may be viewed online by clicking on the product name in the associated entry on www.RedBookLive.com

Certificate No: 531h-(cl-1) to EN 54-17:2005, EN 54-18:2005

Certificated Products		LPCB Ref. No.
FDCI221	Analogue Addressable Input Module with Short Circuit Isolator Note: Approved when used with the FDCH221	531h/01
FDCIO221	Analogue Addressable Input / Output Module with Short Circuit Isolator Note: Approved when used with the FDCH221	531h/02
FDCI361	Analogue Addressable Input Module with Short Circuit Isolator Note: Approved when used with the FDCH221	531h/03
FDCIO361	Analogue Addressable Input / Output Module with Short Circuit Isolator Note: Approved when used with the FDCH221	531h/04

Accessories
FDCH221 Enclosure
A copy of the certificate, confirming the full scope of approval including notes relating to the superscript references in the above table, may be viewed online by clicking on the product name in the associated entry on www.RedBookLive.com

Certificate No: 531m-(cl-1) to EN 54-17:2005, EN 54-18:2005

Certificated Products		LPCB Ref. No.
FDCI222	Analogue Addressable Input Module with Short Circuit Isolator Notes: 1. Approved when used with FDCH221 housing Approved with FDCM291 mounting foot and TS35 standard top hat rail	531m/01
FDCIO222	Analogue Addressable Input/Output Module with Short Circuit Isolator Notes: 1. Approved when used with FDCH221 housing Approved with FDCM291 mounting foot and TS35 standard top hat rail	531m/02
FDCIO223	Addressable Input/Output Module (Transponder) with Short Circuit Isolator Notes: 1. Approved when used in conjunction with housing FDCH221 Approved with FDCM291 mounting foot and TS35 standard top hat rail	531m/03

Accessories
FDCM291 Mounting foot
TS35 Standard top hat rail
FDCH221Housing

A copy of the certificate, confirming the full scope of approval including notes relating to the superscript references in the above table, may be viewed online by clicking on the product name in the associated entry on www.RedBookLive.com

Certificate No: 531n-(cl-1) to EN 54-17:2005

Certificated Products		LPCB Ref. No.
FDCL221	Analogue Addressable Line Separator Note: Approved with TS35 standard top hat rail	531n/01
FDCL221-M	Multi Line Separator Module Notes: 1. Approved when used with FDCH221 housing Approved with FDCM291 mounting foot and TS35 standard top hat rail	531n/02

Accessories
FDCM291 Mounting foot
TS35 Standard top hat rail
FDCH221Housing

A copy of the certificate, confirming the full scope of approval including notes relating to the superscript references in the above table, may be viewed online by clicking on the product name in the associated entry on www.RedBookLive.com

Certificate No: 531r-(cl-1) to EN 54-18:2005

Certificated Products		LPCB Ref. No.
FCA1209-Z1	Output Module	531r/01

A copy of the certificate, confirming the full scope of approval including notes relating to the superscript references in the above table, may be viewed online by clicking on the product name in the associated entry on www.RedBookLive.com

SMS (Novar Systems Ltd)

Building 5, Carlton Park, King Edward Avenue, Narborough, Leicester LE19 0AL, United Kingdom
Tel: +44 (0)116 246 2100 • Fax: +44 (0)116 246 2016
Website: www.smsfire.co.uk

Certificate No: 042ba to EN54-18: 2005, EN54-17: 2005
Certificate No: 567as-(cl-1) to EN 54-4:1997 + A1:2002 + A2:2006
EN 54-17:2005
EN 54-18:2005

Certificated Products		LPCB Ref. No.
SEN-INT-INPUT	Analogue addressable 1 input interface module with short circuit isolator low voltage (SEN-490 and SEN-492 boxes).	042ba/01
SEN-INT-ACDIN	Analogue addressable 1 output DIN rail mounting interface module with short circuit isolator, medium voltage.	042ba/02
SEN-INT-AC	Analogue addressable 1 output surface mounting interface module with short circuit isolator, medium voltage.	042ba/03
SEN-INT-OUTPUT	Analogue addressable 1 input and 1 output interface module with short circuit isolator, low voltage (SEN-490 and SEN-492 boxes)	042ba/04
SEN-INT-4I0	Analogue addressable 4 input / output interface module with short circuit isolator, low voltage (SEN-490 and SEN-492 boxes)	042ba/05

Accessories:
SEN-490 Plastic Box
SEN-492 Metal Box

Certificate No: 567as-(cl-1) to EN54-18:2005, EN-17:2005 & EN54-4:1997+A1:2002+A2:2006

Approved Products		LPCB Ref. No.
78302-02NM	S4 ASD Mains Powered Interface Unit with Short Circuit Isolator	567as/01

A copy of the certificate, confirming the full scope of approval including notes relating to the superscript references in the above table, may be viewed online by clicking on the product name in the associated entry on www.RedBookLive.com

Syncoln Ltd

3rd Floor, 14 Hanover Street, Mayfair, London W1S 1YH, United Kingdom
Tel: +44 (0)207 514 5813
E-mail: sales@syncoln.com • Website: www.syncoln.com

Certificate No: 010ah-(cl-8) to EN 54-17:2005 & EN 54-18:2005

Line Units

Certificated Products		LPCB Ref. No.
5000-802	Syncoln Addressable Zone Monitor with Isolator	010ah/05
5000-803	Syncoln Addressable Input/Output Unit with Isolator	010ah/06
5000-806	Syncoln Addressable Sounder Control Unit with Isolator	010ah/08
SH1200-110SYN	Intelligent Switch Monitor Unit (45681-400 Backbox)	010ah/11
SH1200-112SYN	Intelligent DIN-Rail Switch Monitor Unit (38532-092 DIN Tub)	010ah/12
SH1200-107SYN	Intelligent Input / Output Unit (45681-400 Backbox) Note: 1. Approved for use with Omron relay part number: G6KU2FYTR12DC and Fujitsu part number: FTR-B3GB012Z	010ah/13
SH1200-113SYN	Intelligent DIN-Rail Input / Output Unit (38532-092 DIN Tub) Note: 1. Approved for use with Omron relay part number: G6KU2FYTR12DC and Fujitsu part number: FTR-B3GB012Z	010ah/14
SH1200-109SYN	Intelligent Mains Switching Input / Output Unit (45681-400 Backbox)	010ah/19
SH1200-108SYN	Intelligent Twin Input / Output Unit (45681-400 Backbox) Note:	010ah/21

Certificated Products		LPCB Ref. No.
	1. Approved for use with Omron relay part number: G6KU2FYTR12DC and Fujitsu part number: FTR-B3GB012Z	
SH1200-111SYN	Intelligent Twin Switch Monitor Unit (45681-400 Backbox)	010ah/22

45681-400 Backbox
38532-092 DIN Tub
A copy of the certificate, confirming the full scope of approval including notes relating to the superscript references in the above table, may be viewed online by clicking on the product name in the associated entry on www.RedBookLive.com

Certificate No: 010aa-(cl-5) to EN 54-17:2005

Line Units

Certificated Products		LPCB Ref. No.
5000-500	Syncoln Isolating Base	010aa/01
5000-600	Syncoln Addressable Isolator (5000-601 Base)	010aa/05
45681-518SHA	Deep Isolating Base	010aa/08

5000-601 Syncoln Isolator Base
A copy of the certificate, confirming the full scope of approval including notes relating to the superscript references in the above table, may be viewed online by clicking on the product name in the associated entry on www.RedBookLive.com

Tanda (UK) Limited

Fourth Floor, 30-31 Furnival Street, London EC4A 1JQ, United Kingdom
Tel: +44 8451162945
E-mail: info@tandauk.com • Website: www.tandauk.com

Certificate No: 1330e-(cl-1) to EN 54-18:2005

Certificated Products		LPCB Ref. No.
TX7210	Addressable Single Input/Output Module	1330e/01
TX7230	Analogue Addressable Isolator Module	1330f/01
TX7232	Base Mount Short Circuit Isolator	1330f/02

A copy of the certificate, confirming the full scope of approval including notes relating to the superscript references in the above table, may be viewed online by clicking on the product name in the associated entry on www.RedBookLive.com

Certificate No: 1330f-(cl-1) to EN 54-17:2005

A copy of the certificate, confirming the full scope of approval including notes relating to the superscript references in the above table, may be viewed online by clicking on the product name in the associated entry on www.RedBookLive.com

Tanda Development Pte Ltd

21 Bukit Batok Crescent, #15-75 Wcega Tower, Singapore 658065, Singapore
Tel: +86013223307015
E-mail: Wanyuemin@tandatech.com • Website: www.tnafirealarm.com

Certificate No: 1330e-(cl-4) to EN 54-18:2005

Certificated Products		LPCB Ref. No.
TX7210	Addressable Single Input/Output Module	1330e/01

A copy of the certificate, confirming the full scope of approval including notes relating to the superscript references in the above table, may be viewed online by clicking on the product name in the associated entry on www.RedBookLive.com

Certificate No: 1330f-(cl-4) to EN 54-17:2005

Certificated Products		LPCB Ref. No.
TX7230	Analogue Addressable Isolator Module	1330f/01
TX7232	Base Mount Short Circuit Isolator	1330f/02

A copy of the certificate, confirming the full scope of approval including notes relating to the superscript references in the above table, may be viewed online by clicking on the product name in the associated entry on www.RedBookLive.com

---

Tecnoalarm S.r.l.

Via Ciriè 38, San Mauro Torinese, Turin 10099, Italy
Tel: +39011 22 35 410 • Fax: +39011 27 35 590
E-mail: info@tecnofiredetection.com • Website: www.tecnofiredetection.com

Certificate No: 1519a to EN 54-18:2005 & EN 54-17: 2005

Certificated Products		LPCB Ref. No.
TFM21-L	Addressable Input/Output Module with Short Circuit Isolator	1519a/01
TFM01-L	Addressable Output Module with Short Circuit Isolator	1519a/02

TFDIN-IP40 - Din Rail

A copy of the certificate, confirming the full scope of approval including notes relating to the superscript references in the above table, may be viewed online by clicking on the product name in the associated entry on www.RedBookLive.com

---

Teletek Electronics JSC

14A Srebarna Street, Sofia 1407, Bulgaria
Tel: +359 2 9694 700 • Fax: +359 2 9625 213
E-mail: info@teletek-electronics.bg • Website: www.teletek-electronics.com

Certificate No: 1139g to EN 54-18:2005 & EN 54-17:2005

Line Units

Certificated Products		LPCB Ref. No.
SensoIRIS MIO22	Intelligent Analogue Addressable Fire Alarm Module with 2 Inputs and 2 Outputs with built-in Short Circuit Isolator Module *Note:* *1. Meets the requirements of BS EN 60529:1992 +A2:2013 at the following IP ratings:* *a. IP21C when used with IP21C small box TTE.133.01.00* *b. IP55 when used with IP55 big box Z74JH PS*	1139g/01

Ancillaries

TTE.133.01.00	IP21C Small Box
Z74JH PS	IP55 Big Box

A copy of the certificate, confirming the full scope of approval including notes relating to the superscript references in the above table, may be viewed online by clicking on the product name in the associated entry on www.RedBookLive.com

Tianjin VSAIL Intelligent Fire Technology Co Ltd

No 401, Building 6, No 1 Xinxing Road, Wuqing Development Zone, Tianjin, PRC 301700, China
Tel: +8613911191759
E-mail: ERICHENX@VSAIL.COM.CN

Certificate No: 1174h to EN 54-18:2005

Certificated Products		LPCB Ref. No.
VI-6717	Digital Monitor Interface (1 Input) (VB-6618 Base)	1174h/01
VI-6727	Digital Control Interface (1 Input & 1 Output) (VB-6618)	1174h/02

Bases

VB-6618 Installation Base

A copy of the certificate, confirming the full scope of approval including notes relating to the superscript references in the above table, may be viewed online by clicking on the product name in the associated entry on www.RedBookLive.com

Certificate No: 1174g to EN 54-17:2005

Certificated Products		LPCB Ref. No.
VI-6777	Digital Isolator Interface (VB-6618 base)	1174g/01

Base:
VB-6618 Installation Base
A copy of the certificate, confirming the full scope of approval including notes relating to the superscript references in the above table, may be viewed online by clicking on the product name in the associated entry on www.RedBookLive.com

Tyco Fire & Security GmbH

Victor Von Bruns-Strasse 21, Neuhausen am Rheinfall 8212, Switzerland
Tel: +44 (0)1462 667700 • Fax: +44 (0)1462 667777
E-mail: deepika.sahni@jci.com • Website: www.tycosafetyproducts-europe.com

Certificate No: 681t-(cl-1) to EN 54-18: 2005

Certificated Products		LPCB Ref. No.
FC410CIM	Contact Input Module (FireClass)	681t/02
FC410DIM	Detector Input Module (FireClass)	681t/03
FC410RIM	Relay Interface Module (FireClass)	681t/04
FC410MIM	Mini Input Module (FireClass)	681t/05
FC410SNM	Sounder Notification Module (FireClass)	681t/06
FC410MIO	Small Addressable Multi Input/Output Module (FireClass)	681t/08
HVR800	High Voltage Relay Module *Note:* *1. For use only with RIM800 relay interface module*	681t/01
CIM800	Contact Input Module	681t/02
DIM800	Detector Input Module	681t/03
RIM800	Relay Interface Module	681t/04
MIM800	Mini Input Module	681t/05
SNM800	Sounder Notification Module	681t/06
MIO800	Small Addressable Multi Input/Output Module	681t/08
4090-5210	Contact Input Module (Simplex)	681t/02
4090-5211	Relay Interface Module (Simplex)	681t/04

Ancillaries

M520 Standard indoor enclosure
D800 Outdoor weatherproof enclosure

A copy of the certificate, confirming the full scope of approval including notes relating to the superscript references in the above table, may be viewed online by clicking on the product name in the associated entry on www.RedBookLive.com

Certificate No: 681aa-(cl-1) to EN 54-17:2005

Certificated Products		LPCB Ref. No.
4B-I	Short Circuit Isolator Base	681aa/01

A copy of the certificate, confirming the full scope of approval including notes relating to the superscript references in the above table, may be viewed online by clicking on the product name in the associated entry on www.RedBookLive.com

Certificate No: 681v-(cl-1) to EN 54-17:2005, EN 54-18:2005

Certificated Products		LPCB Ref. No.
DDM800	Detector Driver Module with Short Circuit Isolator Notes: 1. Approved for use with enclosure models M520 and D800 2. The unit is approved when powered from an EN 54-4 approved power source	681v/01
FC410DDM	Detector Driver Module with Short Circuit Isolator (FireClass) Notes: 1. Approved for use with enclosure models M520 and D800 2. The unit is approved when powered from an EN 54-4 approved power source	681v/01
QMO850	Quad Monitored Output Module with Short Circuit Isolator	681v/02
FC410QMO	Quad Monitored Output Module with Short Circuit Isolator (FireClass)	681v/02
QIO850	Quad Input/Output Module with Short Circuit Isolator	681v/03
FC410QIO	Quad Input/Output Module with Short Circuit Isolator (FireClass)	681v/03
QRM850	Quad Relay Module with Short Circuit Isolator	681v/04
FC410QRM	Quad Relay Module with Short Circuit Isolator (FireClass)	681v/04

Ancillaries

M520	Standard indoor enclosure
D800	Outdoor weatherproof enclosure

A copy of the certificate, confirming the full scope of approval including notes relating to the superscript references in the above table, may be viewed online by clicking on the product name in the associated entry on www.RedBookLive.com

Certificate No: 681u-(cl-1) to EN 54:18:2005

Certificated Products		LPCB Ref. No.
BDM800	Loop Powered Beam Detector Interface Module Note: 1. Approved when used in conjunction with the FIRERAY 2000/50R/100R beam detector and BTM800 terminal module	681u/01
FC410BDM	Loop Powered Beam Detector Interface Module (FireClass) Note: 1. Approved when used in conjunction with the FIRERAY 2000/50R/100R beam detector and BTM800 terminal module	681u/01

A copy of the certificate, confirming the full scope of approval including notes relating to the superscript references in the above table, may be viewed online by clicking on the product name in the associated entry on www.RedBookLive.com

V-GREAT GLOBAL CORPORATION

Second Floor, Capital City, Independence Avenue, P O Box 1008, Victoria, Mahe, Seychelles
Tel: 008613581542023
E-mail: vgreatech@hotmail.com

Certificate No: 1174h-(cl-2) to EN 54-18:2005

Line Units

Certificated Products		LPCB Ref. No.
VG-6717	Addressable Monitor Interface (1 Input) (VG-6618 Base)	1174h/01
VG-6727	Addressable Control Interface (1 Input & 1 Output) (VG-6618 Base)	1174h/02

Bases
VG-6618 Installation base

A copy of the certificate, confirming the full scope of approval including notes relating to the superscript references in the above table, may be viewed online by clicking on the product name in the associated entry on www.RedBookLive.com

Certificate No: 1174g-(cl-2) to EN 54-17:2005

Certificated Products		LPCB Ref. No.
VG-6777	Addressable Isolator Interface (VG-6618 Base)	1174g/01

Bases
VG-6618 Installation Base

A copy of the certificate, confirming the full scope of approval including notes relating to the superscript references in the above table, may be viewed online by clicking on the product name in the associated entry on www.RedBookLive.com

Vighnaharta Technologies Pvt Ltd.

Survey No. 11/11, Karanjakar Estate, Nanded Gaon, Pune MH- 411041, India
Tel: +91-9011033259
E-mail: sales@vighnaharta.in • Website: www.vighnaharta.in

Certificate No: 010aa-(cl-6) to EN 54-17:2005

Line Units

Certificated Products		LPCB Ref. No.
BASE-284TSF	TrueSafe Isolating Base	010aa/01

A copy of the certificate, confirming the full scope of approval including notes relating to the superscript references in the above table, may be viewed online by clicking on the product name in the associated entry on www.RedBookLive.com

Vimpex Limited

VIVA ELEKTRONIK SISTEMLER

Rasimpasa Mah. Muhendis Sari Ali, Sok. Birlik Han No:3/1, Kadikoy, ISTANBUL 34716, Turkey
Tel: 0090 549 797 70 80
E-mail: info@vivafire.com • Website: www.vivafire.com

Certificate No: 1426f-(cl-1) to EN 54-17:2005

Certificated Products		LPCB Ref. No.
VI 200-LI	Loop Isolator Module (DZ-9057 Base)	1426f/01

Base
DZ-9057

A copy of the certificate, confirming the full scope of approval including notes relating to the superscript references in the above table, may be viewed online by clicking on the product name in the associated entry on www.RedBookLive.com

Certificate No: 1426e(cl-1) to EN 54-18: 2005

Certificated Products		**LPCB Ref. No.**
VI 200-MIC	Intelligent Addressable Input/Output Module (DZ-9056 Base)	1426e/01
VI 200-MICLP	Addressable I/O Module (DZ-9058 Base)	1426e/02

Bases
DZ-9056
DZ-9058

A copy of the certificate, confirming the full scope of approval including notes relating to the superscript references in the above table, may be viewed online by clicking on the product name in the associated entry on www.RedBookLive.com

---

Walter Kidde Portable Equipment Inc. (Trading as Edwards, A Carrier Company)

8985 Town Center Parkway, Bradenton, FL 34202, USA

Certificate No: 1255b-(cl-1) to EN 54-17:2005

Certificated Products		**LPCB Ref. No.**
SIGA-IM2I	Single Input Signal Isolator Module Note: 1. Approved with the following ancillaries - SIGA-MP1, SIGA-MP2, SIGA-MP2L and Plastic Back Box	1255b/02
SIGA-IMI	Isolator Module Note: 1. Approved with the following ancillaries - SIGA-MP1, SIGA-MP2 and SIGA-MP2L	1255b/01

Ancillaries

SIGA-MP1	MP1 Mounting Plate
SIGA-MP2	MP2 Mounting Plate
SIGA-MP2L	MP2L Mounting Plate
Plastic Back Box	

A copy of the certificate, confirming the full scope of approval including notes relating to the superscript references in the above table, may be viewed online by clicking on the product name in the associated entry on www.RedBookLive.com

Certificate No: 904g-(cl-1) to EN 54-17:2005

Certificated Products		**LPCB Ref. No.**
SIGA-IB	Analogue Addressable Short Circuit Isolator Base Note: 1. Certified for use with fire detector models - SIGA-IPHSI, SIGA-PHSI, SIGA-PSI, SIGA-ISI and SIGA-HRSI	904g/01
SIGA-IB4	Analogue Addressable Short Circuit Isolator Base with trim Note: 1. Certified for use with fire detector models- SIGA-IPHSI, SIGA-PHSI, SIGA-PSI. SIGA-ISI and SIGA-HRSI	904g/02

A copy of the certificate, confirming the full scope of approval including notes relating to the superscript references in the above table, may be viewed online by clicking on the product name in the associated entry on www.RedBookLive.com

Certificate No: 1255a-(cl-1) to EN 54-18:2005

Certificated Products		**LPCB Ref. No.**
SIGA-CC1I	Single Input Signal Module Notes: 1.Approved with the following ancillaries - SIGA-MP1, SIGA-MP2 and SIGA-MP2L2.Approved with personality code 5	1255a/01

Certificated Products		LPCB Ref. No.
SIGA-CC1SI	Auto-Sync Output Module Notes: 1.Approved with the following ancillaries - SIGA-MP1, SIGA-MP2 and SIGA-MP2L 2.Approved with personality code 5	1255a/02
SIGA-CC2I	Dual Input Signal Module Notes: 1.Approved with the following ancillaries - SIGA-MP1, SIGA-MP2 and SIGA-MP2L 2.Approved with personality code 7	1255a/03
SIGA-CRI	Control Relay Module Notes: 1.Approved with the following ancillaries - SIGA-MP1, SIGA-MP2 and SIGA-MP2L 2.Approved with personality code 8	1255a/04
SIGA-CT1I	Single Input Module Notes: 1.Approved with the following ancillaries - SIGA-MP1, SIGA-MP2 and SIGA-MP2L 2.Approved with personality codes 3, 4 and 18	1255a/05
SIGA-CT2I	Dual Input Module Notes: 1.Approved with the following ancillaries - SIGA-MP1, SIGA-MP2 and SIGA-MP2L 2.Approved with personality codes 3, 4 and 18	1255a/06
SIGA-MM1I	Monitor Module Notes: 1.Approved with the following ancillaries - SIGA-MP1, SIGA-MP2 and SIGA-MP2L 2.Approved with personality code 3	1255a/07
SIGA-UMI	Universal Class A/B Module Notes: 1.Approved with the following ancillaries - SIGA-MP1, SIGA-MP2 and SIGA-MP2L 2.Approved with personality codes 3, 4, 8, 11, 12, 15, 16 and 18	1255a/08
SIGA-IOI	Input Output Control Module Notes: 1. Approved with the following ancillaries - SIGA-MP1, SIGA-MP2 and SIGA-MP2L 2. Approved with personality codes 31, 32, 33, 34, 35, 36, 37, 38, 39 and 40	1255a/09

Ancillaries

SIGA-MP1	MP1 Mounting Plate
SIGA-MP2	MP2 Mounting Plate
SIGA-MP2L	MP2L Mounting Plate

A copy of the certificate, confirming the full scope of approval including notes relating to the superscript references in the above table, may be viewed online by clicking on the product name in the associated entry on www.RedBookLive.com

Certificate No: 1255f-(cl-1) to EN 54-17:2005, EN 54-18:2005

Certificated Products		LPCB Ref. No.
SIGI-CT1I	Single Input Control Module with Isolation	1255f/01
SIGI-CT2I	Dual Input Control Module with Isolation	1255f/02
SIGI-CRI	Relay Control Module with Isolation	1255f/03
SIGI-CC1I	Single Input Single Module with Isolation	1255f/04
SIGI-CC1SI	Single Input Syncing Signal Module with Isolation	1255f/05
SIGI-CC2I	Dual Input Signal Module with Isolation	1255f/06
SIGI-CC2AI	Dual Input Signal Module with Isolation	1255f/07
SIGI-MM1I	Single Input Monitor Module with Isolation	1255f/08
SIGI-WTMI	Water and Tamper Control Module with Isolation	1255f/09
SIGI-IOI	Single Input Single Output Control Module with Isolation	1255f/10
SIGI-CRHI	High Power Relay Control Module with Isolation	1255f/11

A copy of the certificate, confirming the full scope of approval including notes relating to the superscript references in the above table, may be viewed online by clicking on the product name in the associated entry on www.RedBookLive.com

Yingkou Tiancheng Fire Protection Equipment Co., Ltd

No. 11-2, Kechechang Xili,, Xishi District, Yingkou, Pilot Free Trade Zone, Liaoning 115004, China
Tel: +8618604079002
E-mail: wayne@tcfiretech.com • Website: www.tcfiretech.com

Certificate No: 1450b to EN 54-18:2005

Certificated Products		**LPCB Ref. No.**
TCMK5263	Addressable Single Input/Output Module	1450b/01
TCMK5269	Addressable Dual Input Module	1450b/02
TCMK5265	Addressable Input/Output Module	1450b/03

A copy of the certificate, confirming the full scope of approval including notes relating to the superscript references in the above table, may be viewed online by clicking on the product name in the associated entry on www.RedBookLive.com

Certificate No: 1450f to EN 54-17: 2005

Certificated Products		**LPCB Ref. No.**
TCMK5260	Loop isolator	1450f/01
TCDZ516	Isolating base	1450f/02

A copy of the certificate, confirming the full scope of approval including notes relating to the superscript references in the above table, may be viewed online by clicking on the product name in the associated entry on www.RedBookLive.com

The purpose of a fire alarm warning device is to warn person(s) within, or in the vicinity of, a building of the occurrence of a fire emergency situation in order to enable such person(s) to take appropriate measures. Fire alarm warning devices could be sounders, visual alarm e.g. beacons, or even loudspeakers. These devices can be of different construction and may have different parameters for example sounders are defined in terms of frequency ranges, temporal patterns and output levels, beacons are defined in terms of light temporal pattern and frequency of flashing.

Guidance on the type, frequency, temporal pattern, and output levels should be sought from the applicable installation rule or code of practice - for example BS 5839-1 recommends sounders with continuous output and frequency range between 500 Hz to 1000 Hz.

Fire alarm devices may be used for other type of risk or non-fire emergency alarm. In this case it is always recommended that a different message, colour, temporal pattern, or frequency signal from the fire signal is selected to avoid confusion.

This section lists alarm device approved for use indoors and outdoors in fire detection and fire alarm systems.

Products listed in this section have been approved to:

- EN 54-3 *Sounders*
- EN 54-23 *Visual alarms*
- EN 54-24 *Loudspeakers*
- EN 54-25 *Components using radio links*

The initial approval and continued approval processes for audible, visual and loudspeaker warning devices are outlined in scheme documents SD115, SD113, and SD039.

Audit:
Regular product auditing and regular factory inspections are carried out by LPCB ensuring high manufacturing standards and continued compliance with the applicable product standard.

Notes:
1. Since the LPCB uses national and international standards for the listing of products, in some instances the requirements of these standards may conflict with the recommendations of local codes of practice. We recommend that specifiers seek advice from the relevant local authorities and amend their specifications accordingly.

Adkinns Inc.

5063 Commercial Circle, Concord CA 94520, USA
Tel: +1 (650) 457 4580
Website: www.adkinns.com

Certificate No: 1426h-(cl-5) to EN 54-3:2014 + A1:2019

Certificated Products		**LPCB Ref. No.**
PYR-FA-CHA-HS	Intelligent Red Sounder with Visual Indicator (PYR-FA-CHA-CB Base) (Branded as Pyronics) Notes: Meets the requirements of EN 54-3 at the following tone: Sweep tone 667Hz-2kHz @0.21Hz	1426h/01

Base:
PYR-FA-CHA-CB
A copy of the certificate, confirming the full scope of approval including notes relating to the superscript references in the above table, may be viewed online by clicking on the product name in the associated entry on www.RedBookLive.com

Advanced Electronics Limited

The Bridges, Balliol Business Park, Longbenton, Newcastle-Upon-Tyne NE12 8EW, United Kingdom
Tel: +44 (0)345 894 7000 • Fax: +44 (0)1670 707 222
E-mail: pbrown@advancedco.com • Website: www.advancedco.com

Certificate No: 928w-(cl-1) to EN54-3:2001 + A1:2002 + A2:2006

Audible Warning Devices

Certificated Products		LPCB Ref. No.
AXIS-SMB	Axis Addressable Type A Sounder Base *Notes:* *1. Meets the requirements of EN 54-3 at the following tone settings:* *Tone 1 - Dual Tone 800Hz and 960Hz, 250ms-250ms* *Tone 2 Continuous Tone, 1000Hz, Steady* *Tone 4 Slow Whoop, 500-1200Hz, 3500ms Sweep, 500ms OFF* *Tone 5 Sweep (DIN) Tone, 1200-500Hz, 1s sweep (1Hz)* *2. Cover plate (LID100-AL/W or AL/R)*	928w/05
AXIS-SVMB	Axis Addressable Type A Sounder Beacon Base *Notes:* *1. Meets the requirements of EN 54-3 at the following tone settings:* *Tone 1 - Dual Tone 800Hz and 960Hz, 250ms-250ms* *Tone 2 - Continuous Tone, 1000Hz, Steady* *Tone 4 - Slow Whoop, 500-1200Hz, 3500ms Sweep, 500ms OFF* *Tone 5 - Sweep (DIN) Tone, 1200-500Hz, 1s sweep (1Hz)* *2. The beacon function is not included within the scope of this approval* *3. Cover plate (LID100-AL/W or AL/R)*	928w/06
Axis-CWS	Conventional Type A/B (indoor/outdoor) Wall Sounder (Red Body) *Notes:* *1. Meets the requirements of EN 54-3 at the following tone settings:* *Tone 1 - Warble Tone 800Hz for 500ms, then 1000Hz for 500ms* *Tone 2 - Continuous Tone, 970Hz* *Tone 3 - Slow Whoop (Dutch), 500-1200Hz for 3500ms, then off for 500ms* *Tone 4 - German DIN Tone, 1200-500Hz swept every 1000ms (1Hz)*	928w/07
Axis-CWS/WH	Conventional Type A/B (indoor/outdoor) Wall Sounder (White Body) *Notes:* *1. Meets the requirements of EN 54-3 at the following tone settings:* *Tone 1 - Warble Tone 800Hz for 500ms, then 1000Hz for 500ms* *Tone 2 Continuous Tone, 970Hz* *Tone 3 Slow Whoop (Dutch), 500-1200Hz for 3500ms, then off for 500ms*	928w/07

Detectors:

20-SG100-ADV	Wireless optical smoke detector
20-SG200-ADV	Wireless multi-criteria detector
20-SG350-ADV	Wireless heat detector

Ancillaries

Axis-WSM	Addressable module with short circuit isolator

A copy of the certificate, confirming the full scope of approval including notes relating to the superscript references in the above table, may be viewed online by clicking on the product name in the associated entry on www.RedBookLive.com

Certificate No: 928y-(cl-1) to EN 54-3:2001 + A1:2002 + A2:2006; EN 54-23:2010

Visual & Audible Warning Devices

Certificated Products		LPCB Ref. No.
Axis-CWSV	Conventional Type A /B (indoor/outdoor) Wall Sounder and Visual Alarm Device (Red Body) *Notes:* *1. Meets the requirements of EN 54-3 at the following tone settings:* *Tone 1 - Warble Tone 800Hz for 500ms, then 1000Hz for 500ms* *Tone 2 - Continuous Tone, 970Hz* *Tone 3 - Slow Whoop (Dutch), 500-1200Hz for 3500ms, then off for 500ms* *Tone 4 - German DIN Tone, 1200-500Hz swept every 1000ms (1Hz)* *2. The wall mounted VAD meets the requirements of EN 54-23 for the following:* *- Category W-2.5-7* *- Flash rate - 0.5Hz*	928y/01

Certificated Products		LPCB Ref. No.
	- Synchronization	
Axis-CWSV/WH	Conventional Type A/B (indoor/outdoor) Wall Sounder and Visual Alarm Device (White Body) *Notes:* *1. Meets the requirements of EN 54-3 at the following tone settings:* *Tone 1 - Warble Tone 800Hz for 500ms, then 1000Hz for 500ms* *Tone 2 Continuous Tone, 970Hz* *Tone 3 Slow Whoop (Dutch), 500-1200Hz for 3500ms, then off for 500ms* *Tone 4 German DIN Tone, 1200-500Hz swept every 1000ms (1Hz)* *2. The wall mounted VAD meets the requirements of EN 54-23 for the following:* *- Category W-2.5-7* *- Flash rate - 0.5Hz* *- Synchronization*	928y/01

Ancillaries
Axis-WSM Addressable module with short circuit isolator

A copy of the certificate, confirming the full scope of approval including notes relating to the superscript references in the above table, may be viewed online by clicking on the product name in the associated entry on www.RedBookLive.com

Certificate No: 928ah-(cl-3) to EN 54-3:2001+A1:2002+A2:2006

Certificated Products		LPCB Ref. No.
Axis-CWS + Axis-WSM	Altair Addressable Type A/B (indoor/outdoor) Wall Sounder with Short Circuit Isolator (Red Body) Notes: 1. Meets the requirements of EN 54-3 at the following tone settings: Tone 1 - Warble Tone 800Hz for 500ms, then 1000Hz for 500ms Tone 2 Continuous Tone, 970Hz Tone 3 Slow Whoop (Dutch), 500-1200Hz for 3500ms, then off for 500ms Tone 4 German DIN Tone, 1200-500Hz swept every 1000ms (1Hz) 2.Device is only addressable when used in conjunction with Axis-WSM	928ah/01
Axis-CWS/WH + Axis-WSM	Altair Addressable Type A/B (indoor/outdoor) Wall Sounder with Short Circuit Isolator (White Body) Notes: 1. Meets the requirements of EN 54-3 at the following tone settings: Tone 1 - Warble Tone 800Hz for 500ms, then 1000Hz for 500ms Tone 2 Continuous Tone, 970Hz Tone 3 Slow Whoop (Dutch), 500-1200Hz for 3500ms, then off for 500ms Tone 4 German DIN Tone, 1200-500Hz swept every 1000ms (1Hz) 2.Device is only addressable when used in conjunction with Axis-WSM	928ah/01

A copy of the certificate, confirming the full scope of approval including notes relating to the superscript references in the above table, may be viewed online by clicking on the product name in the associated entry on www.RedBookLive.com

Certificate No: 928z-(cl-3) to EN 54-3:2001+A1:2002+A2:2006, EN 54-17:2005, EN 54-18:2005, EN 54-23:2010

Certificated Products		LPCB Ref. No.
Axis-CWSV + Axis-WSM	Altair Addressable Type A/B (indoor/outdoor) Wall Sounder and Visual Alarm Device with Short Circuit Isolator (Red Body) Notes: 1. Meets the requirements of EN 54-3 at the following tone settings: Tone 1 - Warble Tone 800Hz for 500ms, then 1000Hz for 500ms Tone 2 Continuous Tone, 970Hz Tone 3 Slow Whoop (Dutch), 500-1200Hz for 3500ms, then off for 500ms Tone 4 German DIN Tone, 1200-500Hz swept every 1000ms (1Hz) 2. The wall mounted VAD meets the requirements of EN 54-23 for the following: - Category W-2.5-7 - Flash rate 0.5Hz - Synchronization 3. Device is only addressable when used in conjunction with Axis-WSM	928z/01
Axis-CWSV/WH + Axis-WSM	Altair Addressable Type A/B (indoor/outdoor) Wall Sounder and Visual Alarm Device with Short Circuit Isolator (White Body) Notes: 1. Meets the requirements of EN 54-3 at the following tone settings: Tone 1 - Warble Tone 800Hz for 500ms, then 1000Hz for 500ms Tone 2 Continuous Tone, 970Hz	928z/01

Certificated Products		LPCB Ref. No.
	Tone 3 Slow Whoop (Dutch), 500-1200Hz for 3500ms, then off for 500ms Tone 4 German DIN Tone, 1200-500Hz swept every 1000ms (1Hz) 2. The wall mounted VAD meets the requirements of EN 54-23 for the following: - Category W-2.5-7 - Flash rate 0.5Hz - Synchronization 3. Device is only addressable when used in conjunction with Axis-WSM	

Ancillaries

Axis-WSM	Addressable Module with Short Circuit Isolator

A copy of the certificate, confirming the full scope of approval including notes relating to the superscript references in the above table, may be viewed online by clicking on the product name in the associated entry on www.RedBookLive.com

---

Advantronic Systems S.L.

C/Yunque 9 Nave B1, Tres Cantos, Madrid 28760, Spain
Tel: +34 91 806 2343 • Fax: +34 91 803 1171
E-mail: jpedrouzo@advantronic.es • Website: www.advantronic.es

Certificate No: 928ah-(cl-7) to EN 54-3:2001 + A1:2002 + A2:2006, EN 54-17:2005, EN 54-18:2005

Certificated Products		LPCB Ref. No.
AV415AL+CWS100	Altair Addressable Type A/B (Indoor/Outdoor) Wall Sounder with Short Circuit Isolator (Red Body) *Notes:* *1. Meets the requirements of EN 54-3 at the following tone settings:* *Tone 1 - Warble Tone 800Hz for 500ms, then 1000Hz for 500ms* *Tone 2 - Continuous Tone, 970Hz* *Tone 3 - Slow Whoop (Dutch), 500-1200Hz for 3500ms, then off for 500ms* *Tone 4 - German DIN Tone, 1200-500Hz swept every 1000ms (1Hz)* *2. Device is only addressable when used in conjunction with AV415AL*	928ah/01

Ancillaries

AV415AL	Addressable module with short circuit isolator

A copy of the certificate, confirming the full scope of approval including notes relating to the superscript references in the above table, may be viewed online by clicking on the product name in the associated entry on www.RedBookLive.com

Certificate No: 928w-(cl-8) to EN 54-3:2001+A1:2002+A2:2006

Certificated Products		LPCB Ref. No.
AV412AS	Altair Addressable Type A Sounder Base Notes: 1. Meets the requirements of EN 54-3 at the following tone settings: Tone 1 - Dual Tone 800Hz and 960Hz, 250ms-250ms Tone 2 Continuous Tone, 1000Hz, Steady Tone 4 Slow Whoop, 500-1200Hz, 3500ms Sweep, 500ms OFF Tone 5 Sweep (DIN) Tone, 1200-500Hz, 1s sweep (1Hz) 2. Cover plate (LID100-AL/W or AL/R)	928w/05
AV413AS	Altair Addressable Type A Sounder Beacon Base Notes: 1. Meets the requirements of EN 54-3 at the following tone settings: Tone 1 - Dual Tone 800Hz and 960Hz, 250ms-250ms Tone 2 Continuous Tone, 1000Hz, Steady Tone 4 Slow Whoop, 500-1200Hz, 3500ms Sweep, 500ms OFF Tone 5 Sweep (DIN) Tone, 1200-500Hz, 1s sweep (1Hz) 2. The beacon function is not included within the scope of this approval 3. Cover plate (LID100-AL/W or AL/R)	928w/06

A copy of the certificate, confirming the full scope of approval including notes relating to the superscript references in the above table, may be viewed online by clicking on the product name in the associated entry on www.RedBookLive.com

Certificate No: 928z-(cl-8) to EN 54-3:2001+A1:2002+A2:2006, EN 54-17:2005, EN 54-18:2005, EN 54-25:2008

Certificated Products		LPCB Ref. No.
AV415AL+CWS100AV	Altair Addressable Type A/B (Indoor/Outdoor) Wall Sounder and Visual Alarm Device with Short Circuit Isolator (Red Body) Notes: 1. Meets the requirements of EN 54-3 at the following tone settings: Tone 1 - Warble Tone 800Hz for 500ms, then 1000Hz for 500ms Tone 2 Continuous Tone, 970Hz Tone 3 Slow Whoop (Dutch), 500-1200Hz for 3500ms, then off for 500ms Tone 4 German DIN Tone, 1200-500Hz swept every 1000ms (1Hz) 2. The wall mounted VAD meets the requirements of EN 54-23 for the following: - Category W-2.5-7 - Flash rate 0.5Hz - Synchronization 3. Device is only addressable when used in conjunction with AV415AL	928z/01

Ancillaries
AV415AL Addressable module with short circuit isolator

A copy of the certificate, confirming the full scope of approval including notes relating to the superscript references in the above table, may be viewed online by clicking on the product name in the associated entry on www.RedBookLive.com

Al Rayan Security & Safety Trading

Warehouse No, 12, Al Qusais Industrial Area 4, P O Box 233949, Dubai, United Arab Emirates
Tel: +971 42630396 • Fax: +971 42630397
E-mail: rayandxb@eim.ae • Website: www.rayandxb.ae

Certificate No: 1174c-(cl-5) to EN 54-3:2014 + A1:2019

Audible Warning Devices

Certificated Products		LPCB Ref. No.
SC-6734	Conventional Type A Sounder Strobe (SB-6711 Base) (branded as SECURE) *Notes:* *1. Meets the requirements of EN 54-3 and approved at the following tones:* *1) Tone 01, 2400Hz - 2900Hz @ 3 Hz* *2) Tone 10, 500Hz - 1200Hz x 3, 3.5s on / 0.5s off* *2. The strobe function is not included within the scope of this approval*	1174c/01
SI-6737	Addressable Type A Indoor Digital Sounder Beacon (SB-6619 Base) (branded as SECURE) *Notes:* *1. Meets the requirements of EN 54-3 and approved at the following tones:* *1) Tone 00, 2400Hz - 2900Hz @ 3Hz* *2) Tone 01, 2400Hz - 2900Hz @ 9Hz* *3) Tone 08, 500Hz - 1200Hz x 3, 3.5s on / 0.5s off* *4) Tone 14, 1500Hz - 2700Hz @ 3Hz* *2. The beacon function is not included within the scope of this approval*	1174c/02

Base
SB-6711 Base
SB-6619 Mounting Base
A copy of the certificate, confirming the full scope of approval including notes relating to the superscript references in the above table, may be viewed online by clicking on the product name in the associated entry on www.RedBookLive.com

Al Tahadi Security And Safety Equipment Trading

PO Box 45668, Ind. Area 11, Sharjah, United Arab Emirates
Tel: +971 5 0868 4543 • Fax: +971 6535 9220
E-mail: Sharqawi61@yahoo.com • Website: www.tahadi-fire.com

Certificate No: 506e-(cl-10) to EN 54-3:2014 + A1:2019

Audible Warning Devices

Certificated Products		LPCB Ref. No.
OM-0218	Conventional Fire Alarm Bell	506e/01
OM-03127-BS	Conventional Type B Electronic Sounder Beacon *Notes:1. Meets the requirements of EN 54-3 at the following tones: 1 - Alternating Tones 800/970Hz at 2Hz* *2 - Sweeping 800/970Hz at 7Hz* *2. The beacon functionality is not included within the scope of approval.*	506e/03

A copy of the certificate, confirming the full scope of approval including notes relating to the superscript references in the above table, may be viewed online by clicking on the product name in the associated entry on www.RedBookLive.com

Ambest Electronics (Ningbo) Co Ltd T/A Numens

55 Yunhui Road, Yingzhou District, Ningbo, Zhejiang 315137, China
Tel: +86 574 82817218
E-mail: allen.cheng@numens.com

Certificate No: 1529b to EN54-3:2014 + A1:2019

Certificated Products		LPCB Ref. No.
447-005	Intelligent Type A Sounder/Beacon Device Notes: 1. Meets the requirements of EN 54-3 at the following tones: (i). Alternating 800/970 Hz, 500ms each tone 2. Operating Voltage 21~30V DC 3. The beacon functionality is not included within the scope of this approval	1529b/01
641-005	Intelligent Type A Sounder/Beacon Device Notes: 1. Meets the requirements of EN 54-3 at the following tones: (i). Alternating 800/970 Hz, 500ms each tone 2. Operating Voltage 21~30V DC 3. The beacon functionality is not included within the scope of this approval	1529b/01

Base:
Integrated mounting back box with latch

A copy of the certificate, confirming the full scope of approval including notes relating to the superscript references in the above table, may be viewed online by clicking on the product name in the associated entry on www.RedBookLive.com

Ampac Pty Ltd

7 Ledgar Road, Balcatta 6021, Australia
Tel: +618 (9242) 3333 • Fax: +618 (9242) 3334
E-mail: askellham@ampac.net • Website: www.ampac.net

Certificate No: 010ak-(cl-3) to EN 54-3: 2001 + A1: 2002 + A2: 2006

Audible Warning Devices

Certificated Products		LPCB Ref. No.
55000-001AMP	XP95 Type B Intelligent Open Area Sounder (Red) (45681-518AMP enhanced deep isolating bases) *Note:* *1. Meets the requirements of EN 54-3:2001 at the following tones:* *Apollo standard-840Hz,0.5s/558Hz,0.5s* *Dutch (slow whoop)- 500-1200Hz in 3.5s, 0.5s off* *German DIN-1200-500Hz over 1s*	010ak/01
58000-005AMP	Discovery Type B Intelligent Open Area Sounder Beacon (Red) (45681-518AMP enhanced deep isolating bases) *Notes:* *1. Meets the requirements of EN 54-3:2001 at the following tones:* *T1- Apollo Evacuation 558Hz,0.5s/840Hz,0.5s* *T3- Dutch Slow Whoop 500-1200Hz in 3.5s, 0.5s off* *T4- German DIN1200-500Hz over 1s* *2. The Beacon function is not approved to EN 54-23*	010ak/05

Bases:
45681-517AMP Enhanced deep isolating base (White)
45681-518AMP Enhanced deep isolating base (Red)
A copy of the certificate, confirming the full scope of approval including notes relating to the superscript references in the above table, may be viewed online by clicking on the product name in the associated entry on www.RedBookLive.com

---

Apollo Fire Detectors Limited

36 Brookside Road, Havant, Hampshire PO9 1JR, United Kingdom
Tel: +44 (0)2392 492412 • Fax: +44 (0)2392 492754
E-mail: enquiries@apollo-fire.co.uk

Certificate No: 010ak to EN54-3: 2001 +A1:2002 +A2:2006

Sounders

Certificated Products		LPCB Ref. No.
55000-001	Intelligent Sounder Open-Area (Red) (45681-517 and 45681-518 enhanced deep isolating bases) *Note:* *1. Meets the requirements of EN 54-3:2001 at the following tones:* *Apollo standard-840Hz,0.5s/558Hz,0.5s* *Dutch (slow whoop)- 500-1200Hz in 3.5s, 0.5s off* *German DIN-1200-500Hz over 1s*	010ak/01
55000-002	Intelligent Sounder Open-Area (White) (45681-517 and 45681-518 enhanced deep isolating bases) *Note:* *1. Meets the requirements of EN 54-3:2001 at the following tones:* *Apollo standard-840Hz,0.5s/558Hz,0.5s* *Dutch (slow whoop)- 500-1200Hz in 3.5s, 0.5s off* *German DIN-1200-500Hz over 1s*	010ak/02
55000-005	Intelligent Sounder Visual Indicator Open-Area (Red) (45681-517 and 45681-518 enhanced deep isolating bases) *Note:* *1. Meets the requirements of EN 54-3:2001 at the following tones:* *Apollo standard-840Hz,0.5s/558Hz,0.5s* *Dutch (slow whoop)- 500-1200Hz in 3.5s, 0.5s off* *German DIN-1200-500Hz over 1s* *2. The Beacon function is not approved to EN 54-23*	010ak/03
55000-006	Intelligent Sounder Visual Indicator Open-Area (White) (45681-517 and 45681-518 enhanced deep isolating bases) *Note:* *1. Meets the requirements of EN 54-3:2001 at the following tones:* *Apollo standard-840Hz,0.5s/558Hz,0.5s* *Dutch (slow whoop)- 500-1200Hz in 3.5s, 0.5s off* *German DIN-1200-500Hz over 1s* *2. The Beacon function is not approved to EN 54-23*	010ak/04
58000-005	Discovery Type B intelligent open area sounder beacon (Red) (45681-517 and 45681-518 enhanced deep isolating bases) *Note:*	010ak/05

Certificated Products		LPCB Ref. No.
	1. Meets the requirements of EN 54-3:2001 at the following tones: *T1- Apollo Evacuation 558Hz,0.5s/840Hz,0.5s* *T3- Dutch Slow Whoop 500-1200Hz in 3.5s, 0.5s off* *T4- German DIN1200-500Hz over 1s* *2. The Beacon function is not approved to EN 54-23*	
58000-007	Discovery Type B intelligent open area sounder beacon (White) (45681-517 and 45681-518 enhanced deep isolating bases) *Note:* *1. Meets the requirements of EN 54-3:2001 at the following tones:* *T1- Apollo Evacuation 558Hz,0.5s/840Hz,0.5s* *T3- Dutch Slow Whoop 500-1200Hz in 3.5s, 0.5s off* *T4- German DIN1200-500Hz over 1s*	010ak/06
55000-017	AlarmSense Open-Area Sounder Visual Indicator (45681-523 Base) Note: 1. Meets the requirements of EN 54-3:2001 at the following tone: Evacuate tone - 840 Hz for 0.5sec, 558 Hz for 0.5sec	010ak/07
55000-018	AlarmSense Open-Area Sounder (45681-523 Base) Note: 1. Meets the requirements of EN 54-3:2001 at the following tone: Evacuate tone - 840 Hz for 0.5sec, 558 Hz for 0.5sec	010ak/08

Bases:
45681-517 Enhanced deep isolating base (White)
45681-518 Enhanced deep isolating base (Red)
45681-523 AlarmSense Open Area Base
SA5000-200 XPERT8 (White) Intelligent Base
SA5000-202 XPERT8 (Red) Intelligent Base
45681-210 Intelligent Mounting Base
A copy of the certificate, confirming the full scope of approval including notes relating to the superscript references in the above table, may be viewed online by clicking on the product name in the associated entry on www.RedBookLive.com

Certificate No: 010aw to EN54-23: 2010, EN54-3: 2001 + A1:2002 + A2: 2006 and EN54-17: 2005

Alarm Warning Devices

Certificated Products		LPCB Ref. No.
45681-700	Discovery Sounder Visual Alarm Device Base (White) with Isolator (45681-292 and 45681-293 Caps) *Notes:* *1. The VAD is rated as open class: (Refer to installation guide).* *2. The VAD operating voltage range 17-28V DC (24V nominal).* *3. The VAD Light mode (light pattern details): 0.5Hz mode only.* *4. The VAD includes a short circuit isolator.* *5. The VAD is a Type A device and includes synchronisation* *6. Meets the requirements of EN 54-3: 2001 at the following tone settings:* *Tone 1 Apollo Evacuation Tone - 567Hz for 0.5s, 850Hz for 0.5s* *Tone 12 Alternating - (Hochiki & Fulleon) - 925Hz for 0.25s, 626Hz for 0.25s* *Tone 14 Medium Sweep - 800Hz to 970Hz at 1 Hz* *Tone 3 Dutch Slow Whoop (sweep) - 500Hz - 1200Hz for 3.5s, off for 0.5s* *Tone 4 DIN Tone (sweep) - 1200Hz - 500Hz for 1s* *Tone 18 Swedish Fire Tone - 660 Hz, 150ms on, 150ms off* *Tone 0 Apollo Alert Tone - 1s off, 1s 850Hz* *Tone 11 Continuous (Hochiki & Fulleon) - 925Hz* *Tone 13 Continuous - 970Hz* *Tone 2 Continuous - 850Hz* *Tone 17 Swedish all clear signal - Continuous - 660Hz* *7. Approved for sounder volumes 2-7 only* ***Accessories:*** *45681-292 White Cap (Lockable)* *45681-293 Red Cap (Lockable)*	010aw/01
45681-705	XP95 Sounder Visual Alarm Device Base (white) with Isolator (45681-292 and 45681-293 Caps) *Notes:* *1. The VAD is rated as open class: (Refer to installation guide).* *2. The VAD operating voltage range 17-28V DC (24V nominal).* *3. The VAD Light mode (light pattern details): 0.5Hz mode only.*	010aw/03

Certificated Products		LPCB Ref. No.
	4. The VAD includes a short circuit isolator. *5. The VAD is a Type A device and includes synchronisation.* *6. Meets the requirements of EN 54-3: 2001 at the following tone settings:* *Tone 1 Apollo Evacuation Tone - 567Hz for 0.5s, 850Hz off for 0.5s* *Tone 0 Apollo Alert Tone - 1s off, 1s 850Hz* *7. Approved for sounder volumes 2-7 only.* ***Accessories:*** *45681-292 White Cap (Lockable)* *45681-293 Red Cap (Lockable)*	
45681-707	XP95 Sounder Visual Alarm Device Base (white) DIN with Isolator (45681-292 and 45681-293 Caps) *Notes:* *1. The VAD is rated as open class: (Refer to installation guide).* *2. The VAD operating voltage range 17-28V DC (24V nominal).* *3. The VAD Light mode (light pattern details): 0.5Hz mode only.* *4. The VAD includes a short circuit isolator function* *5. The VAD is a Type A device and includes synchronisation.* *6. Meets the requirements of EN 54-3: 2001 at the following tone settings:* *Tone 4 DIN Tone (sweep) - 1200Hz - 500Hz for 1s* *Tone 2 Continuous - 850Hz* *7. Approved for sounder volumes 2-7 only.* ***Accessories:*** *45681-292 White Cap (Lockable)* *45681-293 Red Cap (Lockable)*	010aw/05
SA5500-550	Intelligent Open Area Sounder VAD (White Flash, Red Body) with Short Circuit Isolator (SA5000-200 and SA5000-202) Notes: 1. Meets the requirements of EN 54-3:2001 for the following tones: Tone 21 Apollo Evacuation Tone 522Hz, 0.5sec / 707Hz, 0.5sec Tone 12 Alternating (Hochiki & Fulleon) 925Hz for 0.25sec / 626Hz for 0.25sec Tone 14 Medium Sweep 800Hz to 970Hz at 1Hz Tone 3 Dutch Slow Whoop 500Hz 1200Hz in 3.5s, 0.5s off Tone 4 German DIN Tone (sweep) 1200Hz 500Hz over 1sec Tone 18 Swedish Fire Tone 660Hz, 150ms on, 150ms off Tone 22 Apollo Alert Tone 1s off, 850Hz for 1s Tone 11 Continuous (Hochiki & Fulleon) 925Hz Tone 13 Continuous 970Hz Tone 2 Continuous 825Hz Tone 17 Swedish All Clear Continuous 660Hz 2. Type A 3. The Wall mounted VAD meets the requirements of EN 54-23:2010 for the following: - Category rating W-3.1-10 - Synchronization - Flash rate 0.5Hz - White LED - Clear lens	010aw/06
SA5501-550	Intelligent Open Area Sounder VAD (White Flash, White Body) with Short Circuit Isolator (SA5000-200, SA5000-202 and 45681-210) Notes: 1. Meets the requirements of EN 54-3:2001 for the following tones: Tone 21 Apollo Evacuation Tone 522Hz, 0.5sec / 707Hz, 0.5sec Tone 12 Alternating (Hochiki & Fulleon) 925Hz for 0.25sec / 626Hz for 0.25sec Tone 14 Medium Sweep 800Hz to 970Hz at 1Hz Tone 3 Dutch Slow Whoop 500Hz 1200Hz in 3.5s, 0.5s off Tone 4 German DIN Tone (sweep) 1200Hz 500Hz over 1sec Tone 18 Swedish Fire Tone 660Hz, 150ms on, 150ms off Tone 22 Apollo Alert Tone 1s off, 850Hz for 1s Tone 11 Continuous (Hochiki & Fulleon) 925Hz Tone 13 Continuous 970Hz Tone 2 Continuous 825Hz Tone 17 Swedish All Clear Continuous 660Hz 2. Type A 3. The Wall mounted VAD meets the requirements of EN 54-23:2010 for the following: - Category rating W-3.1-10 - Synchronization - Flash rate 0.5Hz - White LED - Clear lens	010aw/07
SA5500-551	Intelligent Open Area Sounder VAD (Red Flash, Red Body) with Short Circuit Isolator	010aw/08

Certificated Products		LPCB Ref. No.
	(SA5000-200 and SA5000-202) Notes: 1. Meets the requirements of EN 54-3:2001 for the following tones: Tone 21 Apollo Evacuation Tone 522Hz, 0.5sec / 707Hz, 0.5sec Tone 12 Alternating (Hochiki & Fulleon) 925Hz for 0.25sec / 626Hz for 0.25sec Tone 14 Medium Sweep 800Hz to 970Hz at 1Hz Tone 3 Dutch Slow Whoop 500Hz 1200Hz in 3.5s, 0.5s off Tone 4 German DIN Tone (sweep) 1200Hz 500Hz over 1sec Tone 18 Swedish Fire Tone 660Hz, 150ms on, 150ms off Tone 22 Apollo Alert Tone 1s off, 850Hz for 1s Tone 11 Continuous (Hochiki & Fulleon) 925Hz Tone 13 Continuous 970Hz Tone 2 Continuous 825Hz Tone 17 Swedish All Clear Continuous 660Hz 2. Type A 3. The Wall mounted VAD meets the requirements of EN 54-23:2010 for the following: - Category rating W-3.1-9 - Synchronization - Flash rate 0.5Hz - White LED - Red lens	
SA5501-551	Intelligent Open Area Sounder VAD (Red Flash, White Body) with Short Circuit Isolator (SA5000-200, SA5000-202 and 45681-210) Notes: 1. Meets the requirements of EN 54-3:2001 for the following tones: Tone 21 Apollo Evacuation Tone 522Hz, 0.5sec / 707Hz, 0.5sec Tone 12 Alternating (Hochiki & Fulleon) 925Hz for 0.25sec / 626Hz for 0.25sec Tone 14 Medium Sweep 800Hz to 970Hz at 1Hz Tone 3 Dutch Slow Whoop 500Hz 1200Hz in 3.5s, 0.5s off Tone 4 German DIN Tone (sweep) 1200Hz 500Hz over 1sec Tone 18 Swedish Fire Tone 660Hz, 150ms on, 150ms off Tone 22 Apollo Alert Tone 1s off, 850Hz for 1s Tone 11 Continuous (Hochiki & Fulleon) 925Hz Tone 13 Continuous 970Hz Tone 2 Continuous 825Hz Tone 17 Swedish All Clear Continuous 660Hz 2. Type A 3. The Wall mounted VAD meets the requirements of EN 54-23:2010 for the following: - Category rating W-3.1-9 - Synchronization - Flash rate 0.5Hz - White LED - Red lens	010aw/09

Accessories

SA5000-200 XPERT8 (White) Intelligent Mounting Base
SA5000-202 XPERT8 (Red) Intelligent Mounting Base
45681-210 Intelligent Mounting Base

A copy of the certificate, confirming the full scope of approval including notes relating to the superscript references in the above table, may be viewed online by clicking on the product name in the associated entry on www.RedBookLive.com

Certificate No: 010ay to EN 54-17: 2005 and EN 54-23: 2010

Visual Warning Devices

Certificated Products		LPCB Ref. No.
45681-709	XP95 Visual Alarm Device Base (White) with Isolator *Notes:* *1. The VAD is rated as open class: (Refer to installation guide).* *2. The VAD operating voltage range 17-28V DC (24V nominal).* *3. The VAD Light mode (light pattern details): 0.5Hz mode only.* *4. The VAD includes a short circuit isolator.* *5. The VAD is a Type A device and includes synchronisation.* ***Accessories:*** *45681-292 White Cap (Lockable)* *45681-293 Red Cap (Lockable)*	010ay/01
SA5501-500	Intelligent Open Area VAD (White Flash, White Body) with Short Circuit Isolator (SA5000-	010ay/02

Certificated Products		LPCB Ref. No.
	200, SA5000-202 and 45681-210) Notes: 1. The Wall mounted VAD meets the requirements of EN 54-23:2010 for the following: - Category rating W-3.1-10 - Synchronization - Flash rate 0.5Hz - White LED - Clear lens	
SA5501-501	Intelligent Open Area VAD (Red Flash, White Body) with Short Circuit Isolator (SA5000-200, SA5000-202 and 45681-210) Notes: 1. The Wall mounted VAD meets the requirements of EN 54-23:2010 for the following: - Category rating W-3.1-9 - Synchronization - Flash rate 0.5Hz - White LED - Red lens	010ay/03

Bases:

45681-210 XP95/Discovery mounting base
45681-284 XP95/Discovery short circuit isolating base
45681-518 Enhanced Deep Isolating Base (Red)
SA5000-200 XPERT8 (White) Intelligent Mounting Base
SA5000-202 XPERT8 (Red) Intelligent Mounting Base
45681-277 XP95 Sounder Base - Isolating
45681-290 Discovery Sounder Base - Slow Whoop - Isolating
45681-276 XP95 Sounder Base - Ancillary
45681-702 Discovery Sounder Base - Isolating
45681-300 Discovery Sounder Base - DIN Tone - Isolating
45681-278 XP95 Sounder Base
45681-291 Discovery Sounder Base - Slow Whoop

A copy of the certificate, confirming the full scope of approval including notes relating to the superscript references in the above table, may be viewed online by clicking on the product name in the associated entry on www.RedBookLive.com

Certificate No: 010ax to EN 54-3: 2001 + A1: 2002 + A2: 2006 and EN 54-17: 2005

Audible Warning Devices

Certificated Products		LPCB Ref. No.
45681-702	Discovery Sounder Base (White) with Isolator (45681-292 and 45681-293 Caps) **Note:** 1. Meets the requirements of EN 54-3: 2001 at the following tone settings: Tone 1 Apollo Evacuation Tone - 567Hz for 0.5s, 850Hz for 0.5s Tone 12 Alternating - (Hochiki & Fulleon) - 925Hz for 0.25s, 626Hz for 0.25s Tone 14 Medium Sweep - 800Hz to 970Hz at 1 Hz Tone 3 Dutch Slow Whoop (sweep) - 500Hz - 1200Hz for 3.5s/0Hz, 0.5s off Tone 4 DIN Tone (sweep) - 1200Hz - 500Hz for 1s Tone 18 Swedish Fire Tone - 660 Hz, 150ms on, 150ms off Tone 0 Apollo Alert Tone - 1s off, 1s 850Hz Tone 11 Continuous (Hochiki & Fulleon) - 925Hz Tone 13 Continuous - 970Hz Tone 2 Continuous - 850Hz Tone 17 Swedish all clear signal - Continuous - 660Hz 2. Type A and approved for sounder volumes 2-7 only. **Accessories:** 45681-292 White Cap (Lockable) 45681-293 Red Cap (Lockable)	010ax/01
SA5500-300	Intelligent Open Area Sounder (Red Body) with Short Circuit Isolator (SA5000-200, SA5000-202 and 45681-210) Notes: 1. Meets the requirements of EN 54-3:2001 for the following tones: Tone 21 - Apollo Evacuation Tone 522Hz, 0.5sec / 707 Hz, 0.5sec Tone 12 - Alternating (Hochiki & Fulleon) 925Hz for 0.25sec / 626Hz for 0.25sec Tone 14 - Medium Sweep 800Hz to 970Hz at 1Hz Tone 3 - Dutch Slow Whoop 500Hz 1200Hz in 3.5s, 0.5s off Tone 4 - German DIN Tone (sweep) 1200Hz 500Hz over 1sec Tone 18 - Swedish Fire Tone 660Hz, 150ms on, 150ms off	010ax/02

Certificated Products		LPCB Ref. No.
	Tone 22 - Apollo Alert Tone 1s off, 707Hz for 1s Tone 11 - Continuous (Hochiki & Fulleon) 925Hz Tone 13 - Continuous 970Hz Tone 2 - Continuous 825Hz Tone 17 - Swedish All Clear Continuous 660Hz 2. Type A	
SA5501-300	Intelligent Open Area Sounder (White Body) with Short Circuit Isolator (SA5000-200, SA5000-202 and 45681-210) Notes: 1. Meets the requirements of EN 54-3:2001 for the following tones: Tone 21 - Apollo Evacuation Tone 522Hz, 0.5sec / 707 Hz, 0.5sec Tone 12 - Alternating (Hochiki & Fulleon) 925Hz for 0.25sec / 626Hz for 0.25sec Tone 14 - Medium Sweep 800Hz to 970Hz at 1Hz Tone 3 - Dutch Slow Whoop 500Hz 1200Hz in 3.5s, 0.5s off Tone 4 - German DIN Tone (sweep) 1200Hz 500Hz over 1sec Tone 18 - Swedish Fire Tone 660Hz, 150ms on, 150ms off Tone 22 - Apollo Alert Tone 1s off, 707Hz for 1s Tone 11 - Continuous (Hochiki & Fulleon) 925Hz Tone 13 - Continuous 970Hz Tone 2 - Continuous 825Hz Tone 17 - Swedish All Clear Continuous 660Hz 2. Type A	010ax/03
SA5500-350	Intelligent Open Area Sounder Visual Indicator (White Flash, Red Body) with Short Circuit Isolator (SA5000-200, SA5000-202 and 45681-210) Notes: 1. Meets the requirements of EN 54-3:2001 for the following tones: Tone 21 - Apollo Evacuation Tone 522Hz, 0.5sec / 707 Hz, 0.5sec Tone 12 - Alternating (Hochiki & Fulleon) 925Hz for 0.25sec / 626Hz for 0.25sec Tone 14 - Medium Sweep 800Hz to 970Hz at 1Hz Tone 3 - Dutch Slow Whoop 500Hz 1200Hz in 3.5s, 0.5s off Tone 4 - German DIN Tone (sweep) 1200Hz 500Hz over 1sec Tone 18 - Swedish Fire Tone 660Hz, 150ms on, 150ms off Tone 22 - Apollo Alert Tone 1s off, 707Hz for 1s Tone 11 - Continuous (Hochiki & Fulleon) 925Hz Tone 13 - Continuous 970Hz Tone 2 - Continuous 825Hz Tone 17 - Swedish All Clear Continuous 660Hz 2. Type A	010ax/04
SA5501-350	Intelligent Open Area Sounder Visual Indicator (White Flash, White Body) with Short Circuit Isolator (SA5000-200, SA5000-202 and 45681-210) Notes: 1. Meets the requirements of EN 54-3:2001 for the following tones: Tone 21 - Apollo Evacuation Tone 522Hz, 0.5sec / 707 Hz, 0.5sec Tone 12 - Alternating (Hochiki & Fulleon) 925Hz for 0.25sec / 626Hz for 0.25sec Tone 14 - Medium Sweep 800Hz to 970Hz at 1Hz Tone 3 - Dutch Slow Whoop 500Hz 1200Hz in 3.5s, 0.5s off Tone 4 - German DIN Tone (sweep) 1200Hz 500Hz over 1sec Tone 18 - Swedish Fire Tone 660Hz, 150ms on, 150ms off Tone 22 - Apollo Alert Tone 1s off, 707Hz for 1s Tone 11 - Continuous (Hochiki & Fulleon) 925Hz Tone 13 - Continuous 970Hz Tone 2 - Continuous 825Hz Tone 17 - Swedish All Clear Continuous 660Hz 2. Type A	010ax/05
SA5500-351	Intelligent Open Area Sounder Visual Indicator (Red Flash, Red Body) with Short Circuit Isolator (SA5000-200, SA5000-202 and 45681-210) Notes: 1. Meets the requirements of EN 54-3:2001 for the following tones: Tone 21 - Apollo Evacuation Tone 522Hz, 0.5sec / 707 Hz, 0.5sec Tone 12 - Alternating (Hochiki & Fulleon) 925Hz for 0.25sec / 626Hz for 0.25sec Tone 14 - Medium Sweep 800Hz to 970Hz at 1Hz Tone 3 - Dutch Slow Whoop 500Hz 1200Hz in 3.5s, 0.5s off Tone 4 - German DIN Tone (sweep) 1200Hz 500Hz over 1sec Tone 18 - Swedish Fire Tone 660Hz, 150ms on, 150ms off Tone 22 - Apollo Alert Tone 1s off, 707Hz for 1s Tone 11 - Continuous (Hochiki & Fulleon) 925Hz Tone 13 - Continuous 970Hz Tone 2 - Continuous 825Hz Tone 17 - Swedish All Clear Continuous 660Hz 2. Type A	010ax/06
SA5501-351	Intelligent Open Area Sounder Visual Indicator (Red Flash, White Body) with Short Circuit Isolator (SA5000-200, SA5000-202 and 45681-210)	010ax/07

Certificated Products		LPCB Ref. No.
	Notes: 1. Meets the requirements of EN 54-3:2001 for the following tones: Tone 21 - Apollo Evacuation Tone 522Hz, 0.5sec / 707 Hz, 0.5sec Tone 12 - Alternating (Hochiki & Fulleon) 925Hz for 0.25sec / 626Hz for 0.25sec Tone 14 - Medium Sweep 800Hz to 970Hz at 1Hz Tone 3 - Dutch Slow Whoop 500Hz 1200Hz in 3.5s, 0.5s off Tone 4 - German DIN Tone (sweep) 1200Hz 500Hz over 1sec Tone 18 - Swedish Fire Tone 660Hz, 150ms on, 150ms off Tone 22 - Apollo Alert Tone 1s off, 707Hz for 1s Tone 11 - Continuous (Hochiki & Fulleon) 925Hz Tone 13 - Continuous 970Hz Tone 2 - Continuous 825Hz Tone 17 - Swedish All Clear Continuous 660Hz 2. Type A	

Bases:

SA5000-200	XPERT8 (White) Intelligent Base
SA5000-202	XPERT8 (Red) Intelligent Base
45681-210	Intelligent Mounting Base

A copy of the certificate, confirming the full scope of approval including notes relating to the superscript references in the above table, may be viewed online by clicking on the product name in the associated entry on www.RedBookLive.com

Certificate No: 010ba to EN 54-23:2010

Visual Warning Devices

Certificated Products		LPCB Ref. No.
55000-740	Loop-Powered Type A VAD 15m (Red) 1. The ceiling mounted VAD meets the requirements of EN 54-23:2010 for the following: - Category rating C-3-15 - Synchronization - Flash rate 0.5 Hz - White LED - Clear lens 2. Approved with XP95/Discovery 45681-210 mounting base and 45681-284 short circuit isolating base	010ba/01
55000-741	Loop-Powered Type A VAD 6m (Red) Notes: 1. The wall mounted VAD meets the requirements of EN 54-23:2010 for the following: - Category rating W-2.4-6 - Synchronization - Flash rate 0.5 Hz - White LED - Clear lens 2. Approved with XP95/Discovery 45681-210 mounting base and 45681-284 short circuit isolating base	010ba/02
55000-742	Loop-Powered Type A VAD 8m (Red) 1. The ceiling mounted VAD meets the requirements of EN 54-23:2010 for the following: - Category rating C-3-8 - Synchronization - Flash rate 0.5 Hz - White LED - Clear lens 2. Approved with XP95/Discovery 45681-210 mounting base and 45681-284 short circuit isolating base	010ba/03
55000-743	Loop-Powered Type A VAD 15m (White) 1. The ceiling mounted VAD meets the requirements of EN 54-23:2010 for the following: - Category rating C-3-15 - Synchronization - Flash rate 0.5 Hz - White LED - Clear lens 2. Approved with XP95/Discovery 45681-210 mounting base and 45681-284 short circuit isolating base	010ba/04
55000-744	Loop-Powered Type A VAD 6m (White) Notes: 1. The wall mounted VAD meets the requirements of EN 54-23:2010 for the following:	010ba/05

Certificated Products		LPCB Ref. No.
	- Category rating W-2.4-6 - Synchronization - Flash rate 0.5 Hz - White LED - Clear lens 2. Approved with XP95/Discovery 45681-210 mounting base and 45681-284 short circuit isolating base	
55000-745	Loop-Powered Type A VAD 8 (White) 1. The ceiling mounted VAD meets the requirements of EN 54-23:2010 for the following: - Category rating C-3-8 - Synchronization - Flash rate 0.5 Hz - White LED - Clear lens 2. Approved with XP95/Discovery 45681-210 mounting base and 45681-284 short circuit isolating base	010ba/06
55000-738	Loop-Powered Type A VAD (Red) Notes: 1. The ceiling mounted VAD meets the requirements of EN 54-23:2010 for the following: - Category rating C-3-8 - Synchronisation - Flash rate 0.5Hz - Red LED - Clear lens 2. Approved for use with 45681-210, 45681-284, 45681-277, 45681-290, 45681-276, 45681-702, 45681-300, 45681-278 and 45681-291 mounting bases	010ba/11
55000-739	Loop-Powered Type A VAD (White) Notes: 1. The wall mounted VAD meets the requirements of EN 54-23:2010 for the following: - Category rating C-3-8 - Synchronisation - Flash rate 0.5Hz - Red LED - Clear lens 2. Approved for use with 45681-210, 45681-284, 45681-277, 45681-290, 45681-276, 45681-702, 45681-300, 45681-278 and 45681-291 mounting bases	010ba/12
55000-736	XP95 Open-Area VAD Cat. W - Red Body (Red Flash) Notes: 1. The Wall mounted VAD meets the requirements of EN 54-23:2010 for the following: - Category rating C-2.4-6 - Synchronisation - Flash rate 0.5Hz - Red LED - Clear lens 2. Also approved for use with 45681-210, 45681-284, 45681-277, 45681-290, 45681-276, 45681-702, 45681-300, 45681-278 and 45681-291 mounting bases	010ba/13
55000-737	XP95 Open-Area VAD Cat. W - White Body (Red Flash) Notes: 1. The Wall mounted VAD meets the requirements of EN 54-23:2010 for the following: - Category rating C-2.4-6 - Synchronisation - Flash rate 0.5Hz - Red LED - Clear lens 2. Also approved for use with 45681-210, 45681-284, 45681-277, 45681-290, 45681-276, 45681-702, 45681-300, 45681-278 and 45681-291 mounting bases	010ba/14

Bases:

45681-210 XP95/Discovery mounting base
45681-284 XP95/Discovery short circuit isolating base
45681-518 Enhanced Deep Isolating Base (Red)
SA5000-200 XPERT8 (White) Intelligent Mounting Base
SA5000-202 XPERT8 (Red) Intelligent Mounting Base
45681-277 XP95 Sounder Base - Isolating
45681-290 Discovery Sounder Base - Slow Whoop - Isolating
45681-276 XP95 Sounder Base - Ancillary
45681-702 Discovery Sounder Base - Isolating
45681-300 Discovery Sounder Base - DIN Tone - Isolating
45681-278 XP95 Sounder Base
45681-291 Discovery Sounder Base - Slow Whoop

A copy of the certificate, confirming the full scope of approval including notes relating to the superscript references in the above table, may be viewed online by clicking on the product name in the associated entry on www.RedBookLive.com

Argus Security S.r.l.

Via del Canneto 14, Valle delle Noghere, 34015 Muggia, Trieste, Italy
Tel: +39 (0) 402821110 • Fax: +39 (0) 402823483
E-mail: dcresseri@argussecurity.it • Website: www.argussecurity.it

Certificate No: 928w to EN 54-3:2001 + A1:2002 + A2:2006

Sounders

Certificated Products		LPCB Ref. No.
VBS100/32	Conventional Indoor Type A Sounder Base *Notes:* *1. Meets the requirements of EN 54-3 at the following tone settings on low, medium and high volume settings: Tone 1 - Warble Tone (800-1000Hz @ 0.5 Sec) Tone 3 - Slow Whoop (Dutch) (500-1200Hz for 3.5s on, 0.5s off) Tone 4 - German DIN Tone (Sweep 1200-500Hz @ 1Hz) Tone 12 - French Tone AFNOR (554Hz 100ms and 440Hz for 400 ms) Tone 23 - LF Sweep (800-1000Hz @ 0.5 Sec)2. Cover Plate (white) - Part no. 116-125*	928w/01
ALBS100/32	Conventional Indoor Type A Sounder Base *Notes:* *1. Meets the requirements of EN 54-3 at the following tone settings on low, medium and high volume settings: Tone 1 - Warble Tone (800-1000Hz @ 0.5 Sec) Tone 3 - Slow Whoop (Dutch) (500-1200Hz for 3.5s on, 0.5s off) Tone 4 - German DIN Tone (Sweep 1200-500Hz @ 1Hz) Tone 12 - French Tone AFNOR (554Hz 100ms and 440Hz for 400 ms) Tone 23 - LF Sweep (800-1000Hz @ 0.5 Sec)* *2. Cover Plate (white) - Part no. 116-125*	928w/02
ALBLS100-32	Altair Addressable Type A Sounder Base *Notes:* *1. Meets the requirements of EN 54-3 at the following tone settings: Tone 1 - Dual Tone 800Hz and 960Hz, 250ms-250ms Tone 2 - Continuous Tone, 1000Hz, Steady Tone 4 - Slow Whoop, 500-1200Hz, 3500ms Sweep, 500ms OFF Tone 5 - Sweep (DIN) Tone, 1200-500Hz, 1s sweep (1Hz)2. Cover plate (LID100 - AL/W or AL/R)*	928w/05
ALBLS100-32/AV	Altair Addressable Type A Sounder Beacon Base *Notes:* *1. Meets the requirements of EN 54-3 at the following tone settings: Tone 1 - Dual Tone 800Hz and 960Hz, 250ms-250ms Tone 2 - Continuous Tone, 1000Hz, Steady Tone 4 - Slow Whoop, 500-1200Hz, 3500ms Sweep, 500ms OFF Tone 5 - Sweep (DIN) Tone, 1200-500Hz, 1s sweep (1Hz)2. The beacon function is not included within the scope of this approval3. Cover plate (LID100 - AL/W or AL/R)*	928w/06
CWS100	Conventional Type A/B (Indoor/Outdoor) Wall Sounder (Red Body) *Notes:* *1. Meets the requirements of EN 54-3 at the following tone settings:* *Tone 1 - Warble Tone 800Hz for 500ms, then 1000Hz for 500ms* *Tone 2 - Continuous Tone, 970Hz* *Tone 3 - Slow Whoop (Dutch), 500-1200Hz for 3500ms, then off for 500ms* *Tone 4 - German DIN Tone, 1200-500Hz swept every 1000ms (1Hz)*	928w/07
CWS100(W)	Conventional Type A/B (Indoor/Outdoor) Wall Sounder (White Body) *Notes:* *1. Meets the requirements of EN 54-3 at the following tone settings:* *Tone 1 - Warble Tone 800Hz for 500ms, then 1000Hz for 500ms* *Tone 2 Continuous Tone, 970Hz* *Tone 3 Slow Whoop (Dutch), 500-1200Hz for 3500ms, then off for 500ms* *Tone 4 German DIN Tone, 1200-500Hz swept every 1000ms (1Hz)*	928w/07

Detectors:
SG100 Wireless optical smoke detector
SG200 Wireless multi-criteria detector
SG350 Wireless heat detector
ALWS-MOD Addressable module with short circuit isolator

Bases
LAB1000 Base adaptor
A copy of the certificate, confirming the full scope of approval including notes relating to the superscript references in the above table, may be viewed online by clicking on the product name in the associated entry on www.RedBookLive.com

Certificate No: 928y to EN 54-3: 2001 + A1: 2002 + A2: 2006, EN 54-23: 2010

Certificated Products		LPCB Ref. No.
CWS100-AV	Conventional Type A/B (Indoor/Outdoor) Wall Sounder and Visual Alarm Device (Red Body) *Notes:* *1. Meets the requirements of EN 54-3 at the following tone settings:* *Tone 1 - Warble Tone 800Hz for 500ms, then 1000Hz for 500ms* *Tone 2 - Continuous Tone, 970Hz* *Tone 3 - Slow Whoop (Dutch), 500-1200Hz for 3500ms, then off for 500ms* *Tone 4 - German DIN Tone, 1200-500Hz swept every 1000ms (1Hz)* *2. The wall mounted VAD meets the requirements of EN 54-23 for the following:* *- Category W-2.5-7* *- Flash rate - 0.5Hz* *- Synchronization*	928y/01
CWS100-AV (W)	Conventional Type A/B (Indoor/Outdoor) Wall Sounder and Visual Alarm Device (White Body) *Notes:* *1. Meets the requirements of EN 54-3 at the following tone settings:* *Tone 1 - Warble Tone 800Hz for 500ms, then 1000Hz for 500ms* *Tone 2 Continuous Tone, 970Hz* *Tone 3 Slow Whoop (Dutch), 500-1200Hz for 3500ms, then off for 500ms* *Tone 4 German DIN Tone, 1200-500Hz swept every 1000ms (1Hz)2. The wall mounted VAD meets the requirements of EN 54-23 for the following:* *- Category W-2.5-7* *- Flash rate - 0.5Hz* *- Synchronization*	928y/01

ALWS-MOD Addressable module with short circuit isolator
A copy of the certificate, confirming the full scope of approval including notes relating to the superscript references in the above table, may be viewed online by clicking on the product name in the associated entry on www.RedBookLive.com

Certificate No: 928x to EN 54-23:2010

Certificated Products		LPCB Ref. No.
CBE1002	Conventional Type A Beacon (1 Flash Every 2 Seconds) Notes: 1. The ceiling mounted VAD meets the requirements of EN 54-23 for the following: - Category rating C-3-7.5 - Synchronization - Flash rate 0.5 Hz - White LED - Clear lens 2. Approved with LAB1000 base	928x/02

Bases:
LAB1000 Base Adaptor

A copy of the certificate, confirming the full scope of approval including notes relating to the superscript references in the above table, may be viewed online by clicking on the product name in the associated entry on www.RedBookLive.com

Certificate No: 928ah to EN 54-3:2001+A1:2002+A2:2006, EN 54-17:2005, EN 54-18:2005

Certificated Products		LPCB Ref. No.
CWS100 + ALWS-MOD	Altair Addressable Type A/B (Indoor/Outdoor) Wall Sounder with Short Circuit Isolator (Red Body) Notes: 1. Meets the requirements of EN 54-3 at the following tone settings: Tone 1 - Warble Tone 800Hz for 500ms, then 1000Hz for 500ms Tone 2 Continuous Tone, 970Hz Tone 3 Slow Whoop (Dutch), 500-1200Hz for 3500ms, then off for 500ms Tone 4 German DIN Tone, 1200-500Hz swept every 1000ms (1Hz) 2. Device is only addressable when used in conjunction with ALWS-MOD	928ah/01
CWS100 (W)+ ALWS-MOD	Altair Addressable Type A/B (Indoor/Outdoor) Wall Sounder with Short Circuit Isolator (White Body) Notes:	928ah/01

Certificated Products		LPCB Ref. No.
	1. Meets the requirements of EN 54-3 at the following tone settings: Tone 1 - Warble Tone 800Hz for 500ms, then 1000Hz for 500ms Tone 2 Continuous Tone, 970Hz Tone 3 Slow Whoop (Dutch), 500-1200Hz for 3500ms, then off for 500ms Tone 4 German DIN Tone, 1200-500Hz swept every 1000ms (1Hz) 2. Device is only addressable when used in conjunction with ALWS-MOD	

Ancillaries

ALWS-MOD Addressable module with short circuit isolator

A copy of the certificate, confirming the full scope of approval including notes relating to the superscript references in the above table, may be viewed online by clicking on the product name in the associated entry on www.RedBookLive.com

Certificate No: 928z to EN 54-3:2001+A1:2002+A2:2006, EN 54-17:2005, EN 54-18:2005, EN 54-23:2010

Certificated Products		LPCB Ref. No.
CWS100-AV + ALWS-MOD	Altair Addressable Type A/B (Indoor/Outdoor) Wall Sounder and Visual Alarm Device with Short Circuit Isolator (Red Body) Notes: 1. Meets the requirements of EN 54-3 at the following tone settings: Tone 1 - Warble Tone 800Hz for 500ms, then 1000Hz for 500ms Tone 2 Continuous Tone, 970Hz Tone 3 Slow Whoop (Dutch), 500-1200Hz for 3500ms, then off for 500ms Tone 4 German DIN Tone, 1200-500Hz swept every 1000ms (1Hz) 2. The wall mounted VAD meets the requirements of EN 54-23 for the following: - Category W-2.5-7 - Flash rate 0.5Hz - Synchronization 3. Device is only addressable when used in conjunction with ALWS-MOD	928z/01
CWS100-AV (W) + ALWS-MOD	Altair Addressable Type A/B (Indoor/Outdoor) Wall Sounder and Visual Alarm Device with Short Circuit Isolator (White Body) Notes: 1. Meets the requirements of EN 54-3 at the following tone settings: Tone 1 - Warble Tone 800Hz for 500ms, then 1000Hz for 500ms Tone 2 Continuous Tone, 970Hz Tone 3 Slow Whoop (Dutch), 500-1200Hz for 3500ms, then off for 500ms Tone 4 German DIN Tone, 1200-500Hz swept every 1000ms (1Hz) 2. The wall mounted VAD meets the requirements of EN 54-23 for the following: - Category W-2.5-7 - Flash rate 0.5Hz - Synchronization 3. Device is only addressable when used in conjunction with ALWS-MOD	928z/01

Ancillaries

ALWS-MOD Addressable module with short circuit isolator

A copy of the certificate, confirming the full scope of approval including notes relating to the superscript references in the above table, may be viewed online by clicking on the product name in the associated entry on www.RedBookLive.com

Armor Safety & Security Ltd

120 Baker Street, London W1U 6TU, United Kingdom
Tel: +971506531199
Website: www.armorsafety.org

Certificate No: 928y-(cl-6) to EN54-3:2001 + A1: 2002 + A2: 2006, EN 54-23:2010

Certificated Products		LPCB Ref. No.
ARM-CWSV	Conventional Type A/B (Indoor/Outdoor) Wall Sounder and Visual Alarm Device (Red Body) *Notes:* *1. Meets the requirements of EN 54-3 at the following tone settings:* *Tone 1 - Warble Tone 800Hz for 500ms, then 1000Hz for 500ms*	928y/01

Certificated Products		LPCB Ref. No.
	Tone 2 Continuous Tone, 970Hz *Tone 3 Slow Whoop (Dutch), 500-1200Hz for 3500ms, then off for 500ms* *Tone 4 German DIN Tone, 1200-500Hz swept every 1000ms (1Hz)2. The wall mounted VAD meets the requirements of EN 54-23 for the following:* *- Category W-2.5-7* *- Flash rate - 0.5Hz* *- Synchronization*	

A copy of the certificate, confirming the full scope of approval including notes relating to the superscript references in the above table, may be viewed online by clicking on the product name in the associated entry on www.RedBookLive.com

Certificate No: 928ah-(cl-6) to EN 54-3:2001 + A1: 2002 + A2: 2006, EN 54-17:2005, EN 54-18: 2005

Certificated Products		LPCB Ref. No.
ARM-CWS + ARM-WSM	Altair Addressable Type A/B (Indoor/Outdoor) Wall Sounder with Short Circuit Isolator (Red Body) *Notes:* *1. Meets the requirements of EN 54-3 at the following tone settings:* *Tone 1 - Warble Tone 800Hz for 500ms, then 1000Hz for 500ms* *Tone 2 Continuous Tone, 970Hz* *Tone 3 Slow Whoop (Dutch), 500-1200Hz for 3500ms, then off for 500ms* *Tone 4 German DIN Tone, 1200-500Hz swept every 1000ms (1Hz)* *2. Device is only addressable when used in conjunction with ARM-WSM*	928ah/01

Ancillaries

ARM-WSM Addressable module with short circuit isolator

A copy of the certificate, confirming the full scope of approval including notes relating to the superscript references in the above table, may be viewed online by clicking on the product name in the associated entry on www.RedBookLive.com

Certificate No: 928z-(cl-7) to EN 54-3: 2001 + A1: 2002, EN 54-17: 2005, EN 54-18: 2005, EN 54-23:2010

Certificated Products		LPCB Ref. No.
ARM-CWSV + ARM-WSM	Altair Addressable Type A/B (Indoor/Outdoor) Wall Sounder and Visual Alarm Device with Short Circuit Isolator (Red Body) *Notes:* *1. Meets the requirements of EN 54-3 at the following tone settings:* *Tone 1 - Warble Tone 800Hz for 500ms, then 1000Hz for 500ms* *Tone 2 Continuous Tone, 970Hz* *Tone 3 Slow Whoop (Dutch), 500-1200Hz for 3500ms, then off for 500ms* *Tone 4 German DIN Tone, 1200-500Hz swept every 1000ms (1Hz)* *2. The wall mounted VAD meets the requirements of EN 54-23 for the following:* *- Category W-2.5-7* *- Flash rate 0.5Hz* *- Synchronization* *3. Device is only addressable when used in conjunction with ARM-WSM*	928z/01

Ancillaries

ARM-WSM Addressable module with short circuit isolator

A copy of the certificate, confirming the full scope of approval including notes relating to the superscript references in the above table, may be viewed online by clicking on the product name in the associated entry on www.RedBookLive.com

Certificate No: 928x-(cl-3) to EN 54-23:2010

Certificated Products		LPCB Ref. No.
ARM-CBE1002	Conventional Type A Beacon (1 Flash Every 2 Seconds) *Notes:* *1. The ceiling mounted VAD meets the requirements of EN 54-23 for the following:* *- Category rating C-3-7.5* *- Synchronization* *- Flash rate 0.5 Hz* *- White LED*	928x/02

Certificated Products		LPCB Ref. No.
	- Clear lens *2. Approved with AXIS-MB base*	
AXIS-MB Base Adaptor		

A copy of the certificate, confirming the full scope of approval including notes relating to the superscript references in the above table, may be viewed online by clicking on the product name in the associated entry on www.RedBookLive.com

Certificate No: 928w-(cl-6) to EN 54-3:2001+A1:2002+A2:2006

Certificated Products		LPCB Ref. No.
ARM-CWS	Conventional Type A/B (Indoor/Outdoor) Wall Sounder (Red Body) Notes: 1. Meets the requirements of EN 54-3 at the following tone settings: Tone 1 - Warble Tone 800Hz for 500ms, then 1000Hz for 500ms Tone 2 Continuous Tone, 970Hz Tone 3 Slow Whoop (Dutch), 500-1200Hz for 3500ms, then off for 500ms Tone 4 German DIN Tone, 1200-500Hz swept every 1000ms (1Hz)	928w/07

A copy of the certificate, confirming the full scope of approval including notes relating to the superscript references in the above table, may be viewed online by clicking on the product name in the associated entry on www.RedBookLive.com

ASENWARE LTD

6 Prospect Way, Royal Oak Industrial Estate, Daventry, Northamptonshire NN11 8PL, United Kingdom
Tel: +8613828765759
E-mail: info@asenware.com

Certificate No: 1426a-(cl-2) to EN 54-3 :2014 + A1: 2019, EN 54-23: 2010

Certificated Products		LPCB Ref. No.
AW-D316	Conventional Sounder Beacon *Notes:* *1) Meets the requirements of EN 54-23 at the following:* *- Category C-3-8 + W-2.4-6* *- Flash rate 0.5Hz* *- One Mode (Light output synchronization)* *- Flash Colour White* *- For wall and ceiling mounting* *2) Meets the requirements of EN 54-3 at the following tone:* *- Tone 1: 667Hz - 2000Hz@0.22Hz*	1426a/01
AW-D306	Addressable Sounder Beacon (DZ-9091 Base) *Notes:* *1)Meets the requirement of EN 54-23 at the following:* *- Category C-3-8 + W-2.4-6* *- Flash Rate 0.5Hz* *- One Mode (Light output synchronization)* *- Flash Colour White* *- For wall and ceiling mounting* *2) Meets the requirements of EN 54-3 at the following tone:* *- Tone 1: 667Hz - 2000Hz@0.22Hz*	1426a/02

Base

DZ-9091K
DZ-9091
Standard Mounting Bracket
A copy of the certificate, confirming the full scope of approval including notes relating to the superscript references in the above table, may be viewed online by clicking on the product name in the associated entry on www.RedBookLive.com

Certificate No: 1426h-(cl-4) to EN 54-3 :2014 + A1: 2019,

Certificated Products		LPCB Ref. No.
AW-D307	Intelligent Red Sounder with Visual Indicator (DZ-9091K Base) *Notes:* *Meets the requirements of EN 54-3 at the following tone:* *Sweep tone 667Hz-2kHz @0.21Hz*	1426h/01

Base
DZ-9091K

A copy of the certificate, confirming the full scope of approval including notes relating to the superscript references in the above table, may be viewed online by clicking on the product name in the associated entry on www.RedBookLive.com

Certificate No: 1426j-(cl-4) to EN 54-3:2014 + A1:2019

Certificated Products		LPCB Ref. No.
AW-D321	Addressable Type A (Indoor) Sounder Beacon Base (Standard Mounting Bracket) Notes: Meets the requirements of EN 54-3: 2014 at the following tones Sweep Tone 667Hz 2KHz@0.21Hz	1426j/01

Accessories
Standard Mounting Bracket

A copy of the certificate, confirming the full scope of approval including notes relating to the superscript references in the above table, may be viewed online by clicking on the product name in the associated entry on www.RedBookLive.com

---

ASI Oy Ltd

Laitaatsillantie 3, Savonlinna 57170, Finland
Tel: +358 20 730 8550
E-mail: mail@asioy.fi • Website: https://asioy.fi/

Certificate No: 1571f to EN 54-3:2014 + A1:2019 & EN 54-25:2008

Audible Warning Devices

Certificated Products		LPCB Ref. No.
ARF-WL8-SND	Wireless Type A Indoor Sounder Notes: 1. Meets the requirements of EN 54-3 for the following tones: - Pulse tone, 990Hz (500ms On / 500ms Off) - Dual tone, 990Hz & 650Hz (250ms ~ 250ms) - Continuous tone, 990Hz - Pulsed tone (synchronized), 990Hz (1s On / 1s Off) 2. The device must be used with the following batteries only: - Primary CR123A (3V) - Secondary CR123A (3V)	1571f/01
EK-WL8-SND	(EKHO Brand) Wireless Type A Indoor Sounder Notes: 1. Meets the requirements of EN 54-3 for the following tones: - Pulse tone, 990Hz (500ms On / 500ms Off) - Dual tone, 990Hz & 650Hz (250ms ~ 250ms) - Continuous tone, 990Hz - Pulsed tone (synchronized), 990Hz (1s On / 1s Off) 2. The device must be used with the following batteries only: - Primary CR123A (3V) - Secondary CR123A (3V)	1571f/01
KM-WL8-SND	(K-Mesh Brand) Wireless Type A Indoor Sounder Notes: 1. Meets the requirements of EN 54-3 for the following tones: - Pulse tone, 990Hz (500ms On / 500ms Off) - Dual tone, 990Hz & 650Hz (250ms ~ 250ms) - Continuous tone, 990Hz - Pulsed tone (synchronized), 990Hz (1s On / 1s Off) 2. The device must be used with the following batteries only: - Primary CR123A (3V) - Secondary CR123A (3V)	1571f/01

A copy of the certificate, confirming the full scope of approval including notes relating to the superscript references in the above table, may be viewed online by clicking on the product name in the associated entry on www.RedBookLive.com

Certificate No: 1571g to EN 54-3:2014 + A1:2019, EN 54-7:2018 & EN 54-25:2008

Audible Warning Devices

Certificated Products		**LPCB Ref. No.**
ARF-WL8-OS	Wireless Optical Smoke Detector with Type A Built-in Sounder Notes: 1. Meets the requirements of EN 54-3 for the following tones: - One tone Steady, 3500Hz (On) - One tone Meander, 3500Hz (1s On / 1s Off) - One tone Meander, 3500Hz (2s On / 2s Off) - Two tone, 3500Hz & 2150Hz (1s / 1s) - Two tone, 3500Hz & 2150Hz (0.4s / 0.4s) - One tone intermittent, 3500Hz (0.2s On / 1.3s Off) - ISO8201, 3500Hz (3*0.5s / 1.5s Off) - One tone continuous, 1000Hz (Continuous tone) - One-tone intermittent, 1000Hz (1s On / 1s Off) 2. Approved to EN54-7 at the following sensitivity settings: - High - Normal - Low 3. The device must be used with the following batteries only: - Primary - CR123A (3V) - Secondary - CR123A (3V)	1571g/01
EK-WL8-OS	(EKHO Brand) Wireless Optical Smoke Detector with Type A Built-in Sounder Notes: 1. Meets the requirements of EN 54-3 for the following tones: - One tone Steady, 3500Hz (On) - One tone Meander, 3500Hz (1s On / 1s Off) - One tone Meander, 3500Hz (2s On / 2s Off) - Two tone, 3500Hz & 2150Hz (1s / 1s) - Two tone, 3500Hz & 2150Hz (0.4s / 0.4s) - One tone intermittent, 3500Hz (0.2s On / 1.3s Off) - ISO8201, 3500Hz (3*0.5s / 1.5s Off) - One tone continuous, 1000Hz (Continuous tone) - One-tone intermittent, 1000Hz (1s On / 1s Off) 2. Approved to EN54-7 at the following sensitivity settings: - High - Normal - Low 3. The device must be used with the following batteries only: - Primary - CR123A (3V) - Secondary - CR123A (3V)	1571g/01
KM-WL8-OS	(K-Mesh Brand) Wireless Optical Smoke Detector with Type A Built-in Sounder Notes: 1. Meets the requirements of EN 54-3 for the following tones: - One tone Steady, 3500Hz (On) - One tone Meander, 3500Hz (1s On / 1s Off) - One tone Meander, 3500Hz (2s On / 2s Off) - Two tone, 3500Hz & 2150Hz (1s / 1s) - Two tone, 3500Hz & 2150Hz (0.4s / 0.4s) - One tone intermittent, 3500Hz (0.2s On / 1.3s Off) - ISO8201, 3500Hz (3*0.5s / 1.5s Off) - One tone continuous, 1000Hz (Continuous tone) - One-tone intermittent, 1000Hz (1s On / 1s Off) 2. Approved to EN54-7 at the following sensitivity settings: - High - Normal - Low 3. The device must be used with the following batteries only: - Primary - CR123A (3V) - Secondary - CR123A (3V)	1571g/01

A copy of the certificate, confirming the full scope of approval including notes relating to the superscript references in the above table, may be viewed online by clicking on the product name in the associated entry on www.RedBookLive.com

Certificate No: 1571h to EN 54-3:2014 + A1:2019, EN 54-5:2017 + A1:2018 & EN 54-25:2008

Audible Warning Devices

Certificated Products		LPCB Ref. No.
ARF-WL8-HS	Wireless Category A1R Heat Detector with Type A Built-in Sounder Notes: 1. Meets the requirements of EN 54-3 for the following tones: - One tone Steady, 3500Hz (On) - One tone Meander, 3500Hz (1s On / 1s Off) - One tone Meander, 3500Hz (2s On / 2s Off) - Two tone, 3500Hz & 2150Hz (1s / 1s) - Two tone, 3500Hz & 2150Hz (0.4s / 0.4s) - One tone intermittent, 3500Hz (0.2s On / 1.3s Off) - ISO8201, 3500Hz (3*0.5s / 1.5s Off) - One tone continuous, 1000Hz (Continuous tone) - One-tone intermittent, 1000Hz (1s On / 1s Off) 2. The device must be used with the following batteries only: - Primary - CR123A (3V) - Secondary - CR123A (3V)	1571h/01
EK-WL8-HS	(EKHO Brand) Wireless Category A1R Heat Detector with Type A Built-in Sounder Notes: 1. Meets the requirements of EN 54-3 for the following tones: - One tone Steady, 3500Hz (On) - One tone Meander, 3500Hz (1s On / 1s Off) - One tone Meander, 3500Hz (2s On / 2s Off) - Two tone, 3500Hz & 2150Hz (1s / 1s) - Two tone, 3500Hz & 2150Hz (0.4s / 0.4s) - One tone intermittent, 3500Hz (0.2s On / 1.3s Off) - ISO8201, 3500Hz (3*0.5s / 1.5s Off) - One tone continuous, 1000Hz (Continuous tone) - One-tone intermittent, 1000Hz (1s On / 1s Off) 2. The device must be used with the following batteries only: - Primary - CR123A (3V) - Secondary - CR123A (3V)	1571h/01
KM-WL8-HS	(K-Mesh Brand) Wireless Category A1R Heat Detector with Type A Built-in Sounder Notes: 1. Meets the requirements of EN 54-3 for the following tones: - One tone Steady, 3500Hz (On) - One tone Meander, 3500Hz (1s On / 1s Off) - One tone Meander, 3500Hz (2s On / 2s Off) - Two tone, 3500Hz & 2150Hz (1s / 1s) - Two tone, 3500Hz & 2150Hz (0.4s / 0.4s) - One tone intermittent, 3500Hz (0.2s On / 1.3s Off) - ISO8201, 3500Hz (3*0.5s / 1.5s Off) - One tone continuous, 1000Hz (Continuous tone) - One-tone intermittent, 1000Hz (1s On / 1s Off) 2. The device must be used with the following batteries only: - Primary - CR123A (3V) - Secondary - CR123A (3V)	1571h/01

A copy of the certificate, confirming the full scope of approval including notes relating to the superscript references in the above table, may be viewed online by clicking on the product name in the associated entry on www.RedBookLive.com

---

ATEIS Middle East FZCO

LIU 11 Dubai Silicon Oasis, Post Box 293640, Dubai, United Arab Emirates
Tel: +971 4 3262730 • Fax: +971 4 3262731
E-mail: info@ateis.ae • Website: www.ateis.ae

Certificate No: 1154s to EN 54-3: 2001 + A1: 2002 + 2006

Certificated Products		LPCB Ref. No.
WCWS100	Velox Conventional Type A/B (Indoor/Outdoor) Wall Sounder (Red Body)	1154s/01

Certificated Products		LPCB Ref. No.
	Notes: *1. Meets the requirements of EN 54-3 at the following tone settings:* *Tone 1 - Warble Tone 800Hz for 500ms, then 1000Hz for 500ms* *Tone 2 - Continuous Tone, 970Hz* *Tone 3 - Slow Whoop (Dutch), 500-1200Hz for 3500ms, then off for 500ms* *Tone 4 - German DIN Tone, 1200-500Hz swept every 1000ms (1Hz)*	

Detectors:

VELOX WL100	Wireless optical smoke detector
VELOX WL200	Wireless multi-criteria detector
VELOX WL350	Wireless heat detector

A copy of the certificate, confirming the full scope of approval including notes relating to the superscript references in the above table, may be viewed online by clicking on the product name in the associated entry on www.RedBookLive.com

Certificate No: 1154t to EN 54-3:2001 + A1:2002 + A2:2006, EN 54-23:2010

Certificated Products		LPCB Ref. No.
WCWSF100	Velox Conventional Type A/B (Indoor/Outdoor) Wall Sounder and Visual Alarm Device (Red Body) Notes: 1. Meets the requirements of EN 54-3 at the following tone settings: Tone 1 - Warble Tone 800Hz for 500ms, then 1000Hz for 500ms Tone 2 – Continuous Tone, 970Hz Tone 3 – Slow Whoop (Dutch), 500-1200Hz for 3500ms, then off for 500ms Tone 4 – German DIN Tone, 1200-500Hz swept every 1000ms (1Hz) 2. The wall mounted VAD meets the requirements of EN 54-23 for the following: - Category W-2.5-7 - Flash rate - 0.5Hz - Synchronization	1154t/01

A copy of the certificate, confirming the full scope of approval including notes relating to the superscript references in the above table, may be viewed online by clicking on the product name in the associated entry on www.RedBookLive.com

---

Beijing Leader Huaxin Electronics Co. Ltd

No. 17 Rongjing Eastern Road, Economy & Technology Developed Area, Beijing 100176, China
Tel: +86 10 67876681 • Fax: +86 10 67863972
E-mail: hy.chen@beijingleader.com.cn • Website: www.beijingleader.com.cn

Certificate No: 987f to EN 54-2: 2001 + A1: 2002 + A2: 2006

Certificated Products		LPCB Ref. No.
LD10001EN	Analogue Addressable Sounder Strobe (LD11EN Base) *Notes:* *1. Meets the requirements of EN 54-3: 2001 for all output levels at voltage range 18-26Vdc and tones:* *1. 1.3 kHz - 2.3kHz* *Certification excludes strobe function.*	987f/01

Base

LD11EN Mounting base

Bharat Fire Fighting PVT Ltd

Garudichira House, Kuriyannoor post,, Thottappuzhassery, Pullada,, Pathanam Thitta, Kerala 689550, India
Tel: 00919446274427
E-mail: info@bhafffco.com

Certificate No: 1450a-(cl-3) to EN 54-3:2014 + A1:2019

Certificated Products		LPCB Ref. No.
BKG200	Addressable Sounder Strobe Type A (Base with 86H50 Embedded Box) *Notes:* *Meets the requirements of EN 54-3: for the following tones* *1) One Default Tone 3.5s ~ 4.5s* *The Beacon function is not approved to EN 54-23*	1450a/01
BKG220	Sounder Base Type A Notes: Meets the requirements of EN 54-3: for the following tones Tone 1, 1.67KHz-5.9KHz (3.5s - 4.5s) Tone 2, 2.85KHz-4.1KHz (0.1s - 0.4s)	1450a/02
BKG210	Addressable Sounder Strobe Type A Notes: Meets the requirements of EN 54-3: for the following tone 1) One Default Tone, 1.67KHz – 5.9KHz (3.5s - 4.5s) The Beacon function is not approved to EN 54-23	1450a/03

Base

Base with 86H50 Embedded Box

A copy of the certificate, confirming the full scope of approval including notes relating to the superscript references in the above table, may be viewed online by clicking on the product name in the associated entry on www.RedBookLive.com

Brilliant Lighting Limited

Brilliant Lighting Limited, Flat 2, 18/F, Block E, Wah Lok Industrial Centre, Shan Mei Street, Fotan, Shatin, Hong Kong
Tel: +825 26903037
E-mail: leo@brillianthk.com.hk

Certificate No: 1592a-(cl-1) to EN 54-3:2014 + A1:2019

Audible Warning Devices

Certificated Products		LPCB Ref. No.
ABA-6-24	a&b 6 Fire Alarm Bell with Aluminium Gong Notes: 1. Type A 2. Meets the requirements of EN 54-3 for the following tones: (i) one tone (bell)	1592a/01
ABA-8-24	a&b 8 Fire Alarm Bell with Aluminium Gong Notes: 1. Type A 2. Meets the requirements of EN 54-3 for the following tones: (i) one tone (bell)	1592a/02
ABA-10-24	a&b 10 Fire Alarm Bell with Aluminium Gong Notes: 1. Type A 2. Meets the requirements of EN 54-3 for the following tones: (i) one tone (bell)	1592a/03

A copy of the certificate, confirming the full scope of approval including notes relating to the superscript references in the above table, may be viewed online by clicking on the product name in the associated entry on www.RedBookLive.com

Certificate No: 1592b-(cl-1) to EN 54-23:2010

Visual Warning Devices

Certificated Products		LPCB Ref. No.
AB150S-C	"a&b" Ceiling Mounted Square Visual Fire Alarm Notes: 1. The Ceiling mounted VAD meets the requirements of EN 54-23 for the following: - Category rating C-3-6.2, O - Synchronization - Flash rate 1Hz - Red LED - Clear lens 2. Type A	1592b/01
AB150S-W	"a&b" Wall Mounted Square Visual Fire Alarm Notes: 1. The Wall mounted VAD meets the requirements of EN 54-23 for the following: - Category rating W-2.4-5 - Synchronization - Flash rate 1Hz - Red LED - Clear lens 2. Type A	1592b/02
AB150	"a&b" Ceiling Mounted Round Visual Fire Alarm Notes: 1. The Ceiling mounted VAD meets the requirements of EN 54-23 for the following: - Category rating C-3-6.2, O - Synchronization - Flash rate 1Hz - Red LED - Clear lens 2. Type A	1592b/03

A copy of the certificate, confirming the full scope of approval including notes relating to the superscript references in the above table, may be viewed online by clicking on the product name in the associated entry on www.RedBookLive.com

---

Bristol Fire Engineering LLC

Al Quoz Industrial Area 3, P.O.Box 74582, Dubai, United Arab Emirates
Tel: +971 4 347 2426 • Fax: +971 4 347 2363
E-mail: sami@bristol-fire.com • Website: www.bristol-fire.com

Certificate No: 1174c-(cl-3) to EN 54-3:2014 + A1:2019

Alarm Warning Devices

Certificated Products		LPCB Ref. No.
B61-6301	Conventional Type A Sounder Strobe (B61-4101 base) *Notes:* *1. Meets the requirements of EN 54-3 and approved at the following tones:* *1) Tone 01, 2400Hz - 2900Hz @ 3 Hz* *2) Tone 10, 500Hz - 1200Hz x 3, 3.5s on / 0.5s off* *2. The strobe function is not included within the scope of this approval*	1174c/01

Bases
AVI-6500 Base
A copy of the certificate, confirming the full scope of approval including notes relating to the superscript references in the above table, may be viewed online by clicking on the product name in the associated entry on www.RedBookLive.com

Certificate No: 1330d-(cl-2) to EN 54-3:2014 + A1:2019

Certificated Products		LPCB Ref. No.
AVI-6401	Addressable Sounder Strobe (AVI-6500 base)	1330d/01

Certificated Products		LPCB Ref. No.
	Notes: 1. Approved to Type A Indoor use only. 2. Meets the requirements of EN 54-3 at the following tones: - Tone 14, 2400 Hz 2900 Hz @ 3Hz - Tone 16, 500Hz 1200Hz, 3.5s on/0.25s off - Tone 17, 800Hz, 1s off/1s on 3. The strobe function is not approved to EN 54-23	
IGN-7203	Addressable Sounder Base Notes: 1. Approved to Type A Indoor use only. 2. Meets the requirements of EN 54-3 at the following tones: • Tone 14, 2400 Hz – 2900 Hz @ 3Hz • Tone 16, 500Hz – 1200Hz, 3.75s on/0.25s off • Tone 17, 800Hz, 1s off/1s on The strobe function is not approved to EN 54-23	1330d/02

Base

AVI-6500 Sounder Base

A copy of the certificate, confirming the full scope of approval including notes relating to the superscript references in the above table, may be viewed online by clicking on the product name in the associated entry on www.RedBookLive.com

---

Ceasefire Industries Private Ltd

E6, Upsidc Industrial Area,, Selaqui, Dehradun, Uttarakhand 24001, India
Tel: +911204223473
E-mail: amit@ceasefire.in

Certificate No: 928w-(cl-5) to EN 54-3:2001 + A1: 2002 + A2: 2006

Certificated Products		LPCB Ref. No.
TI-002232	Addressable Type A Sounder Base *Notes:* *1. Meets the requirements of EN 54-3 at the following tone settings:* *Tone 1 - Dual Tone 800Hz and 960Hz, 250ms-250ms* *Tone 2 Continuous Tone, 1000Hz, Steady* *Tone 4 Slow Whoop, 500-1200Hz, 3500ms Sweep, 500ms OFF* *Tone 5 Sweep (DIN) Tone, 1200-500Hz, 1s sweep (1Hz)* *2. Cover plate (white) TI-002285*	928w/05
TI-002233	Addressable Type A Sounder Beacon Base *Notes:* *1. Meets the requirements of EN 54-3 at the following tone settings:* *Tone 1 - Dual Tone 800Hz and 960Hz, 250ms-250ms* *Tone 2 Continuous Tone, 1000Hz, Steady* *Tone 4 Slow Whoop, 500-1200Hz, 3500ms Sweep, 500ms OFF* *Tone 5 Sweep (DIN) Tone, 1200-500Hz, 1s sweep (1Hz)* *2. The beacon function is not included within the scope of this approval* *3. Cover plate (white) TI-002285*	928w/06
TI-002272	Conventional Type A/B (Indoor/Outdoor) Wall Sounder (Red Body) *Notes:* *1. Meets the requirements of EN 54-3 at the following tone settings:* *Tone 1 - Warble Tone 800Hz for 500ms, then 1000Hz for 500ms* *Tone 2 Continuous Tone, 970Hz* *Tone 3 Slow Whoop (Dutch), 500-1200Hz for 3500ms, then off for 500ms* *Tone 4 German DIN Tone, 1200-500Hz swept every 1000ms (1Hz)*	928w/07

A copy of the certificate, confirming the full scope of approval including notes relating to the superscript references in the above table, may be viewed online by clicking on the product name in the associated entry on www.RedBookLive.com

Certificate No: 928y-(cl-5) to EN 54-3:2001 + A1: 2003 + A2: 2006, EN 54-23:2010

Certificated Products		LPCB Ref. No.
TI-002273	Conventional Type A/B (Indoor/Outdoor) Wall Sounder and Visual Alarm Device (Red Body) *Notes:* *1. Meets the requirements of EN 54-3 at the following tone settings:* *Tone 1 - Warble Tone 800Hz for 500ms, then 1000Hz for 500ms* *Tone 2 Continuous Tone, 970Hz* *Tone 3 Slow Whoop (Dutch), 500-1200Hz for 3500ms, then off for 500ms* *Tone 4 German DIN Tone, 1200-500Hz swept every 1000ms (1Hz)2. The wall mounted VAD meets the requirements of EN 54-23 for the following:* *- Category W-2.5-7* *- Flash rate - 0.5Hz* *- Synchronization*	928y/01

A copy of the certificate, confirming the full scope of approval including notes relating to the superscript references in the above table, may be viewed online by clicking on the product name in the associated entry on www.RedBookLive.com

Certificate No: 928x-(cl-2) to EN 54-23: 2010

Certificated Products		LPCB Ref. No.
TI-002271	Conventional Type A Beacon (1 Flash Every 2 Seconds) *Notes:* *1. The ceiling mounted VAD meets the requirements of EN 54-23:2010 for the following:* *- Category rating C-3-7.5* *- Synchronization* *- Flash rate 0.5 Hz* *- White LED* *- Clear lens* *2. Approved with TI-002231 Base*	928x/02

Bases:
TI-002231 Base Adaptor

A copy of the certificate, confirming the full scope of approval including notes relating to the superscript references in the above table, may be viewed online by clicking on the product name in the associated entry on www.RedBookLive.com

Certificate No: 928ah-(cl-5) to EN 54-3:2001+A1:2002+A2:2006, EN 54-17:2005, EN 54-18:2005

Certificated Products		LPCB Ref. No.
TI-002272 + TI-002260	Addressable Type A/B (Indoor/Outdoor) Wall Sounder with Short Circuit Isolator (Red Body) Notes: 1. Meets the requirements of EN 54-3 at the following tone settings: Tone 1 - Warble Tone 800Hz for 500ms, then 1000Hz for 500ms Tone 2 Continuous Tone, 970Hz Tone 3 Slow Whoop (Dutch), 500-1200Hz for 3500ms, then off for 500ms Tone 4 German DIN Tone, 1200-500Hz swept every 1000ms (1Hz) 2. Device is only addressable when used in conjunction with TI-002260	928ah/01

A copy of the certificate, confirming the full scope of approval including notes relating to the superscript references in the above table, may be viewed online by clicking on the product name in the associated entry on www.RedBookLive.com

Certificate No: 928z-(cl-5) to EN 54-3:2001+A1:2002+A2:2006, EN 54-17:2005, EN 54-18:2005, EN 54-23:2010

Certificated Products		LPCB Ref. No.
TI-002273 + TI-002260	Addressable Type A/B (Indoor/Outdoor) Wall Sounder and Visual Alarm Device with Short Circuit Isolator (Red Body) Notes: 1. Meets the requirements of EN 54-3 at the following tone settings: Tone 1 - Warble Tone 800Hz for 500ms, then 1000Hz for 500ms Tone 2 Continuous Tone, 970Hz Tone 3 Slow Whoop (Dutch), 500-1200Hz for 3500ms, then off for 500ms Tone 4 German DIN Tone, 1200-500Hz swept every 1000ms (1Hz) 2. The wall mounted VAD meets the requirements of EN 54-23 for the following: - Category W-2.5-7 - Flash rate 0.5Hz	928z/01

Certificated Products		LPCB Ref. No.
	- Synchronization 3. Device is only addressable when used in conjunction with TI-002260	

A copy of the certificate, confirming the full scope of approval including notes relating to the superscript references in the above table, may be viewed online by clicking on the product name in the associated entry on www.RedBookLive.com

Computionics Limited (Trading as C-Tec)

Challenge Way, Martland Park, Wigan, Lancashire WD5 0LD, United Kingdom
Tel: +44 (0)1942 322744/42444 • Fax: +44 (0)1942 829867
E-mail: sales@C-tec.co.uk • Website: www.c-tec.co.uk

Certificate No: 176e to EN 54-3:2014 + A1:2019, EN 54-17:2005

Certificated Products		LPCB Ref. No.
BF430A/CX/SR	Hi-Output Addressable Type A (indoor) Wall Sounder with Short Circuit Isolator, Shallow Base (Red) (Apollo Discovery) Note: 1. Meets the requirements of EN 54-3 at the following tones: - Evacuate, 572Hz for 0.5s, 720Hz for 0.5s - Alternating, 962Hz for 0.25s, 572Hz for 0.25s - Dutch slow sweep, 500Hz to 1200Hz for 3.5s on, 0.5s off	176e/01
BF430A/CX/DR	Hi-Output Addressable Type B (outdoor) Wall Sounder with Short Circuit Isolator, Deep Base (Red) (Apollo Discovery) Note: 1. Meets the requirements of EN 54-3 at the following tones: - Evacuate, 572Hz for 0.5s, 720Hz for 0.5s - Alternating, 962Hz for 0.25s, 572Hz for 0.25s - Dutch slow sweep, 500Hz to 1200Hz for 3.5s on, 0.5s off	176e/02
BF431A/CX/W	Addressable Type A (indoor) Ceiling Sounder Base with Short Circuit Isolator (Apollo Discovery) Notes: 1. Meets the requirements of EN 54-3 at the following tones: - Evacuate, 550Hz for 0.5s, 825Hz for 0.5s - Alternating, 925Hz for 0.25s, 626Hz for 0.25s - Dutch slow sweep, 500Hz to 1200Hz for 3.5s on, 0.5s off 2. Can be used as either: - a stand-alone device with locking white cap (BF330CTLIDW), or red cap (BF330CTLIDR), or - a stacked sounder base combination with detectors from the Apollo Discovery range	176e/03
CA450A/SW	Addressable CAST Protocol Type A Compact Sounder with Short Circuit Isolator, Shallow Base, White Body, IP21C (BFIPPLATE/R, BFIPPLATE/W) Note: Meets the requirements of EN 54-3 at the following tones: - Evacuate, 535Hz for 0.5s, 800Hz for 0.5s - Fast Warble, 800Hz for 0.25s, 645Hz for 0.25s - Dutch Slow Whoop, 500Hz to 1200Hz for 3.5s on, 0.5s off - German DIN Tone, 1200Hz to 500Hz for 1s - French Fire Tone, 554Hz for 100ms/440Hz for 400ms - Operating voltage range 24-40VDC	176e/07
CA450A/SR	Addressable CAST Protocol Type A Compact Sounder with Short Circuit Isolator, Shallow Base, Red Body, IP21C (BFIPPLATE/R, BFIPPLATE/W) Note: Meets the requirements of EN 54-3 at the following tones: - Evacuate, 535Hz for 0.5s, 800Hz for 0.5s - Fast Warble, 800Hz for 0.25s, 645Hz for 0.25s - Dutch Slow Whoop, 500Hz to 1200Hz for 3.5s on, 0.5s off - German DIN Tone, 1200Hz to 500Hz for 1s - French Fire Tone, 554Hz for 100ms/440Hz for 400ms - Operating voltage range 24-40VDC	176e/07
CA431A/W	Addressable CAST Protocol Type A Ceiling Base Sounder with Short Circuit Isolator, White, IP21C (BF431QCP) Note: 1. Meets the requirements of EN 54-3:2001 for the following tones: - Evacuate, 610 Hz for 0.5 sec, 810 Hz for 0.5 sec - Fast Warble, 810 Hz for 0.25 sec, 610 Hz for 0.25 sec - Dutch Slow Whoop (sweep), 500 Hz to 1200 Hz for 3.5 sec on, 0.5 sec off - German DIN Tone, 1200Hz-500Hz for 1s	176e/08

Certificated Products		LPCB Ref. No.
	- French Fire Tone, 554Hz for 100ms/440Hz for 440ms - Operating voltage range 24-40V d.c	
CA430A/SR	Addressable CAST Protocol Type A High Output Wall Sounder with Short Circuit Isolator, Shallow Base, Red, IP21 (BFIPPLATE/R) Note: Meets the requirements of EN 54-3 at the following tones: - Evacuate, 675Hz for 0.5s, 925Hz for 0.5s - Fast Warble, 920Hz for 0.25s, 975Hz for 0.25s - Dutch Slow Whoop (sweep), 500Hz to 1200Hz for 3.5s on, 0.5s off - German DIN Tone, 1200Hz to 500Hz for 1s - French Fire Tone, 554Hz for 100ms/440Hz for 400ms - US Temporal LF (ISO 8201), 3x(970Hz, 0.5s on, 0.5s off), 1s off - Operating voltage range 24-40V d.c	176e/04
CA430A/DR	Addressable CAST Protocol Type B High Output Wall Sounder with Short Circuit Isolator, Deep Base, Red, IP33 (BFIPPLATE/R) Note: Meets the requirements of EN 54-3 at the following tones: - Evacuate, 675Hz for 0.5s, 925Hz for 0.5s - Fast Warble, 920Hz for 0.25s, 975Hz for 0.25s - Dutch Slow Whoop (sweep), 500Hz to 1200Hz for 3.5s on, 0.5s off - German DIN Tone, 1200Hz to 500Hz for 1s - French Fire Tone, 554Hz for 100ms/440Hz for 400ms - US Temporal LF (ISO 8201), 3x(970Hz, 0.5s on, 0.5s off), 1s off - Operating voltage range 24-40V d.c	176e/05
CA430A/DR/65	Addressable CAST Protocol Type B High Output Wall Sounder with Short Circuit Isolator, Deep Base, Red, IP55 (BFIPPLATE/R and IP55 Deep Base) Note: Meets the requirements of EN 54-3 at the following tones: - Evacuate, 675Hz for 0.5s, 925Hz for 0.5s - Fast Warble, 920Hz for 0.25s, 975Hz for 0.25s - Dutch Slow Whoop (sweep), 500Hz to 1200Hz for 3.5s on, 0.5s off - German DIN Tone, 1200Hz to 500Hz for 1s - French Fire Tone, 554Hz for 100ms/440Hz for 400ms - US Temporal LF (ISO 8201), 3x(970Hz, 0.5s on, 0.5s off), 1s off - Operating voltage range 24-40V d.c	176e/06
HP430A/DR/65	HP Addressable Protocol Type B High Output Wall Sounder with Short Circuit Isolator, Deep Base, Red, IP55 (BFIPPLATE/R and IP55 Deep Base) Note: Meets the requirements of EN 54-3 at the following tones: - Evacuate, 675Hz for 0.5s, 925Hz for 0.5s - Fast Warble, 920Hz for 0.25s, 975Hz for 0.25s - Dutch Slow Whoop (sweep), 500Hz to 1200Hz for 3.5s on, 0.5s off - German DIN Tone, 1200Hz to 500Hz for 1s - French Fire Tone, 554Hz for 100ms/440Hz for 400ms - US Temporal LF (ISO 8201), 3x(970Hz, 0.5s on, 0.5s off), 1s off - Operating voltage range 24-40V dc	176e/06
HP450A/SW	HP Type A Compact Sounder with Short Circuit Isolator, Shallow Base, White Body, IP21C Note: Meets the requirements of EN 54-3 at the following tones: - Evacuate, 535Hz for 0.5s, 800Hz for 0.5s - Fast Warble, 800Hz for 0.25s, 645Hz for 0.25s - Dutch Slow Whoop, 500Hz to 1200Hz for 3.5s on, 0.5s off - German DIN Tone, 1200Hz to 500Hz for 1s - French Fire Tone, 554Hz for 100ms/440Hz for 400ms - Operating voltage range 24-40VDC	176e/07
HP431A/W	HP Type A Base Sounder with Short Circuit Isolator, White, IP21C Note: 1. Meets the requirements of EN 54-3:2001 for the following tones: - Evacuate, 610 Hz for 0.5 sec, 810 Hz for 0.5 sec - Fast Warble, 810 Hz for 0.25 sec, 610 Hz for 0.25 sec - Dutch Slow Whoop (sweep), 500 Hz to 1200 Hz for 3.5 sec on, 0.5 sec off - German DIN Tone, 1200Hz-500Hz for 1s - French Fire Tone, 554Hz for 100ms/440Hz for 440ms - Operating voltage range 24-40V d.c	176e/08

Deep Base - IP33C
Shallow Base - IP21C
Deep Base - IP55

BFIPPLATE/R	IP Protection Plate for Compact / Hi OP / Sounder VAD - Red
BFIPPLATE/W	IP Protection Plate for Compact / Hi OP / Sounder VAD - White
BF431QCP	Quick Connect Plate

CC408 Activ Base
BF330CTLIDW White Cap
BF330CTLIDR Red Cap
A copy of the certificate, confirming the full scope of approval including notes relating to the superscript references in the above table, may be viewed online by clicking on the product name in the associated entry on www.RedBookLive.com

Certificate No: 176f to EN 54-3:2014 + A1:2019, EN 54-17:2005, EN 54-23:2010

Certificated Products		**LPCB Ref. No.**
BF433A/CX/SR	Hi-Output Addressable Type A (indoor) Wall Sounder VAD with Short Circuit Isolator, Shallow Base (Red) (Apollo Discovery) Notes: 1. Meets the requirements of EN 54-23 for the following: - Category W-2.4-8.2 - Flash rate 0.5Hz - Synchronization - Operating voltage range 21-28 VDC 2. Meets the requirements of EN 54-3 for the following: - Evacuate, 572Hz for 0.5s, 720Hz for 0.5s - Alternating, 962Hz for 0.25s, 572Hz for 0.25s - Dutch slow sweep, 500Hz to 1200Hz for 3.5s on, 0.5s off - Operating voltage range 17-28 VDC	176f/01
BF433A/CX/DR	Hi-Output Addressable Type B (outdoor) Wall Sounder VAD with Short Circuit Isolator, Deep Base (Red) (Apollo Discovery)Notes: 1. Meets the requirements of EN 54-23 for the following: - Category W-2.4-8.2 - Flash rate 0.5Hz - Synchronization - Operating voltage range 21-28 VDC 2. Meets the requirements of EN 54-3 for the following: - Evacuate, 572Hz for 0.5s, 720Hz for 0.5s - Alternating, 962Hz for 0.25s, 572Hz for 0.25s - Dutch slow sweep, 500Hz to 1200Hz for 3.5s on, 0.5s off- Operating voltage range 17-28 VDC	176f/02
BF456A/CX/W	Addressable Type A (indoor) Ceiling Sounder VAD Base with Short Circuit Isolator (Apollo Discovery) Notes: 1. Meets the requirements of EN 54-23 for the following: - Category C-3-8 - Flash rate 0.5Hz - Synchronisation - Operating voltage range 21-28 VDC 2. Meets the requirements of EN 54-3 for the following: - Evacuate, 550Hz for 0.5s, 825Hz for 0.5s - Alternating, 925Hz for 0.25s, 626Hz for 0.25s - Dutch slow sweep, 500Hz to 1200Hz for 3.5s on, 0.5s off - Operating voltage range 17-28 VDC 3. Can be used as either: - a stand-alone device with locking white cap (BF330CTLIDW), or red cap (BF330CTLIDR), or - a stacked sounder/VAD base combination with detectors from the Apollo Discovery range	176f/03
CA451A/SW	Addressable CAST Protocol Type A Compact Sounder VAD with Short Circuit Isolator, Shallow Base, White Body, IP21C (BFIPPLATE/R, BFIPPLATE/W) Notes: 1. Meets the requirements of EN 54-23 for the following: - Category C-3-8, W-3-3.125 - Flash rate 0.5Hz - Synchronisation - White LED - Operating voltage range 27-40 VDC 2. Meets the requirements of EN 54-3 for the following: - Evacuate, 535Hz for 0.5s, 800Hz for 0.5s - Fast Warble, 800Hz for 0.25s, 645Hz for 0.25s - Dutch Slow Whoop, 500Hz to 1200Hz for 3.5s on, 0.5s off - German DIN Tone, 1200Hz to 500Hz for 1s - French Fire Tone, 554Hz for 100ms/440Hz for 400ms - Operating voltage range 24-40 VDC	176f/07
CA451A/SR	Addressable CAST Protocol Type A Compact Sounder VAD with Short Circuit Isolator, Shallow Base, Red Body, IP21C (BFIPPLATE/R, BFIPPLATE/W) Notes:	176f/07

Certificated Products		LPCB Ref. No.
	1. Meets the requirements of EN 54-23 for the following: - Category C-3-8, W-3-3.125 - Flash rate 0.5Hz - Synchronisation - White LED - Operating voltage range 27-40 VDC 2. Meets the requirements of EN 54-3 for the following: - Evacuate, 535Hz for 0.5s, 800Hz for 0.5s - Fast Warble, 800Hz for 0.25s, 645Hz for 0.25s - Dutch Slow Whoop, 500Hz to 1200Hz for 3.5s on, 0.5s off - German DIN Tone, 1200Hz to 500Hz for 1s - French Fire Tone, 554Hz for 100ms/440Hz for 400ms - Operating voltage range 24-40 VDC	
CA432A/W	Addressable CAST Protocol Type A Ceiling Base Sounder VAD with Short Circuit Isolator, White, IP21C, Open Class (BF431QCP) Notes: 1. Meets the requirements of EN 54-3:2001 for the following tones: - Evacuate, 610 Hz for 0.5 sec, 810 Hz for 0.5 sec - Fast Warble, 810 Hz for 0.25 sec, 610 Hz for 0.25 sec - Dutch Slow Whoop (sweep), 500 Hz to 1200 Hz for 3.5 sec on, 0.5 sec off - German DIN Tone, 1200Hz-500Hz for 1s - French Fire Tone, 554Hz for 100ms/440Hz for 440ms - Operating voltage range 24-40V d.c. 2. The Ceiling mounted VAD meets the requirements of EN 54-23:2010 for the following: - Category rating O-R-3-2.5-18 - Synchronization - Flash rate 0.5Hz - White LED	176f/08
CA456A/W	Addressable CAST Protocol Type A Ceiling Base Sounder VAD with Short Circuit Isolator, White, IP21C, Ceiling Class (BF431QCP) Notes: 1. Meets the requirements of EN 54-3:2001 for the following tones: - Evacuate, 610 Hz for 0.5 sec, 810 Hz for 0.5 sec - Fast Warble, 810 Hz for 0.25 sec, 610 Hz for 0.25 sec - Dutch Slow Whoop (sweep), 500 Hz to 1200 Hz for 3.5 sec on, 0.5 sec off - German DIN Tone, 1200Hz-500Hz for 1s - French Fire Tone, 554Hz for 100ms/440Hz for 440ms - Operating voltage range 24-40V d.c. 2. The Ceiling mounted VAD meets the requirements of EN 54-23:2010 for the following: - Category rating C-3-8.5 - Synchronization - Flash rate 0.5Hz - White LED	176f/09
CA433A/SR	Addressable CAST Protocol Type A High Output Wall Sounder VAD with Short Circuit Isolator, Shallow Base, Red, IP21 (BFIPPLATE/R) Notes: 1. Meets the requirements of EN 54-3 at the following tones: - Evacuate, 675Hz for 0.5s, 925Hz for 0.5s - Fast Warble, 920Hz for 0.25s, 975Hz for 0.25s - Dutch Slow Whoop (sweep), 500Hz to 1200Hz for 3.5s on, 0.5s off - German DIN Tone, 1200Hz to 500Hz for 1s - French Fire Tone, 554Hz for 100ms/440Hz for 400ms - US Temporal LF (ISO 8201), 3x(970Hz, 0.5s on, 0.5s off), 1s off - Operating voltage range 24-40V d.c 2. The Wall Mounted VAD meets the requirements of EN 54-23:2010 for the following: - Category rating W-2.75-9 or W-4-4 - Synchronization - Flash rate 0.5Hz - Red LED	176f/04
CA433A/DR	Addressable CAST Protocol Type B High Output Wall Sounder VAD with Short Circuit Isolator, Deep Base, Red, IP33 (BFIPPLATE/R) Notes: 1. Meets the requirements of EN 54-3 at the following tones: - Evacuate, 675Hz for 0.5s, 925Hz for 0.5s - Fast Warble, 920Hz for 0.25s, 975Hz for 0.25s - Dutch Slow Whoop (sweep), 500Hz to 1200Hz for 3.5s on, 0.5s off - German DIN Tone, 1200Hz to 500Hz for 1s - French Fire Tone, 554Hz for 100ms/440Hz for 400ms - US Temporal LF (ISO 8201), 3x(970Hz, 0.5s on, 0.5s off), 1s off - Operating voltage range 24-40V d.c 2. The Wall Mounted VAD meets the requirements of EN 54-23:2010 for the following:	176f/05

Certificated Products		LPCB Ref. No.
	- Category rating W-2.75-9 or W-4-4 - Synchronization - Flash rate 0.5Hz - Red LED	
CA433A/DR/65	Addressable CAST Protocol Type B High Output Wall Sounder VAD with Short Circuit Isolator, Red, IP55 (BFIPPLATE/R and IP55 Deep Base) Notes: 1. Meets the requirements of EN 54-3 at the following tones: - Evacuate, 675Hz for 0.5s, 925Hz for 0.5s - Fast Warble, 920Hz for 0.25s, 975Hz for 0.25s - Dutch Slow Whoop (sweep), 500Hz to 1200Hz for 3.5s on, 0.5s off - German DIN Tone, 1200Hz to 500Hz for 1s - French Fire Tone, 554Hz for 100ms/440Hz for 400ms - US Temporal LF (ISO 8201), 3x(970Hz, 0.5s on, 0.5s off), 1s off - Operating voltage range 24-40V d.c 2. The Wall Mounted VAD meets the requirements of EN 54-23:2010 for the following: - Category rating W-2.75-9 or W-4-4 - Synchronization - Flash rate 0.5Hz - Red LED	176f/06
HP433A/DR/65	HP Addressable Protocol Type B High Output Wall Sounder VAD with Short Circuit Isolator, IP55 Notes: 1. Meets the requirements of EN 54-3 at the following tones: - Evacuate, 675Hz for 0.5s, 925Hz for 0.5s - Fast Warble, 920Hz for 0.25s, 975Hz for 0.25s - Dutch Slow Whoop (sweep), 500Hz to 1200Hz for 3.5s on, 0.5s off - German DIN Tone, 1200Hz to 500Hz for 1s - French Fire Tone, 554Hz for 100ms/440Hz for 400ms - US Temporal LF (ISO 8201), 3x(970Hz, 0.5s on, 0.5s off), 1s off - Operating voltage range 24-40V d.c 2. The Wall Mounted VAD meets the requirements of EN 54-23:2010 for the following: - Category rating W-2.75-9 or W-4-4 - Synchronization - Flash rate 0.5Hz - Red LED	176f/06
HP451A/SW	HP Type A Compact Sounder VAD with Short Circuit Isolator, Shallow Base, White Body, IP21C Notes: 1. Meets the requirements of EN 54-23 for the following: - Category C-3-8, W-3-3.125 - Flash rate 0.5Hz - Synchronisation - White LED - Operating voltage range 27-40 VDC 2. Meets the requirements of EN 54-3 for the following: - Evacuate, 535Hz for 0.5s, 800Hz for 0.5s - Fast Warble, 800Hz for 0.25s, 645Hz for 0.25s - Dutch Slow Whoop, 500Hz to 1200Hz for 3.5s on, 0.5s off - German DIN Tone, 1200Hz to 500Hz for 1s - French Fire Tone, 554Hz for 100ms/440Hz for 400ms - Operating voltage range 24-40 VDC	176f/07
HP456A/W	HP Ceiling Class Type A Base Sounder VAD with Short Circuit Isolator, White, IP21C Notes: 1. Meets the requirements of EN 54-3:2001 for the following tones: - Evacuate, 610 Hz for 0.5 sec, 810 Hz for 0.5 sec - Fast Warble, 810 Hz for 0.25 sec, 610 Hz for 0.25 sec - Dutch Slow Whoop (sweep), 500 Hz to 1200 Hz for 3.5 sec on, 0.5 sec off - German DIN Tone, 1200Hz-500Hz for 1s - French Fire Tone, 554Hz for 100ms/440Hz for 440ms - Operating voltage range 24-40V d.c. 2. The Ceiling mounted VAD meets the requirements of EN 54-23:2010 for the following: - Category rating C-3-8.5 - Synchronization - Flash rate 0.5Hz - White LED	176f/09

Deep Base - IP33C
Shallow Base - IP21C
Deep Base - IP55
BFIPPLATE/R IP Protection Plate for Compact / Hi OP / Sounder VAD - Red

BFIPPLATE/W IP Protection Plate for Compact / Hi OP / Sounder VAD - White
BF431QCP Quick Connect Plate
CC408 Activ Base
BF330CTLIDW White Cap
BF330CTLIDR Red Cap

A copy of the certificate, confirming the full scope of approval including notes relating to the superscript references in the above table, may be viewed online by clicking on the product name in the associated entry on www.RedBookLive.com

Certificate No: 176g to EN 54-17:2005, EN 54-23:2010

Certificated Products		**LPCB Ref. No.**
BF460A/CX/W	Addressable Type A (indoor) Ceiling VAD Base with Short Circuit Isolator (Apollo Discovery) Notes: 1. Meets the requirements of EN 54-23 for the following: - Category C-3-8 - Flash Rate 0.5Hz - Synchronisation - Operating voltage 21-28 VDC 2. Can be used as either: - a stand-alone device with locking white cap (BF330CTLIDW), or red cap (BF330CTLIDR), or - a stacked VAD base combination with detectors from the Apollo Discovery range	176g/01
CA458A/SW	Addressable CAST Protocol Type A Compact VAD with Short Circuit Isolator, Shallow Base, White Body, IP21C (BFIPPLATE/R, BFIPPLATE/W) Note: 1. Meets the requirements of EN 54-23 for the following: - Category C-3-8, W-3-3.125 - Flash Rate 0.5Hz - Synchronisation - White LED - Operating voltage 27-40 VDC	176g/02
CA458A/SR	Addressable CAST Protocol Type A Compact VAD with Short Circuit Isolator, Shallow Base, Red Body, IP21C (BFIPPLATE/R, BFIPPLATE/W) Note: 1. Meets the requirements of EN 54-23 for the following: - Category C-3-8, W-3-3.125 - Flash Rate 0.5Hz - Synchronisation - White LED - Operating voltage 27-40 VDC	176g/02
CA459A/W	Addressable CAST Protocol Type A Ceiling Base VAD with Short Circuit Isolator, White, IP21C, Open Class (BF431QCP) Note: 1. The Ceiling mounted VAD meets the requirements of EN 54-23:2010 for the following: - Category rating O-R-3-2.5-18 - Synchronization - Flash rate 0.5Hz - White LED	176g/03
CA460A/W	Addressable CAST Protocol Type A Ceiling Base VAD with Short Circuit Isolator, White, IP21C, Ceiling Class (BF431QCP) Note: 1. The Ceiling mounted VAD meets the requirements of EN 54-23:2010 for the following: - Category rating C-3-8.5 - Synchronization - Flash rate 0.5Hz - White LED	176g/04
HP458A/SW	HP Type A Compact VAD with Short Circuit Isolator, Shallow Base, White Body, IP21C Note: 1. Meets the requirements of EN 54-23 for the following: - Category C-3-8, W-3-3.125 - Flash Rate 0.5Hz - Synchronisation - White LED - Operating voltage 27-40 VDC	176g/02

Shallow Base IP21C
BFIPPLATE/R IP Protection Plate for Compact / Hi OP / Sounder VAD - Red
BFIPPLATE/W IP Protection Plate for Compact / Hi OP / Sounder VAD - White
BF431QCP Quick Connect Plate

A copy of the certificate, confirming the full scope of approval including notes relating to the superscript references in the above table, may be viewed online by clicking on the product name in the associated entry on www.RedBookLive.com

Certificate No: 176q to EN 54-3:2014 + A1:2019

Certificated Products		**LPCB Ref. No.**
BF431C/CC/W	Conventional Type A Indoor Base Sounder (White Enclosure) IP21C Note: 1) Approved to EN 54-3 (High volume only) at the following tones: - 1 CTEC Evacuation Tone (610Hz for 0.5s, 810Hz for 0.5s) - 3 CTEC Fast Warble (810Hz for 0.25s, 610Hz for 0.25s) - 5 Dutch Slow Whoop (sweep) (500-1200Hz for 3.5s, 0.5s off) - 6 DIN Tone (1200Hz-500Hz for 1s) - 15 French Fire Tone (554Hz for 100ms / 440Hz for 380ms to 420ms) - Operating Voltage 18-30 VDC 2) The device must be used with Quick Connect Plate (BF431/QCP) Can be used as either: - A stand-alone device with locking white cap (BF330CTLIDW) or red cap (BF330CTLIDR), or, - A stacked sounder/VAD combination with detectors from C-TECs range of Activ conventional detectors - C4408 Activ basic base, shall be used when detector is fitted.	176q/01
BF430C/CC/SR	Conventional Type A Indoor Hi Op Wall Sounder (Red Enclosure), Shallow Base, IP21C Note: 1) Approved to EN 54-3 at the following tones: • 1 – CTEC Evacuation Tone (675Hz for 0.5s, 925Hz for 0.5s) • 3 – CTEC Fast Warble (920Hz for 0.25s, 975Hz for 0.25s) • 5 – Dutch Slow Whoop (sweep) (500-1200Hz for 3.5s, 0.5s off) • 6 – DIN Tone (1200Hz-500Hz for 1s) 15 – French Fire Tone (554Hz for 100ms / 440Hz for 380ms to 420ms)	176q/02
BF430C/CC/DR	Conventional Type B Outdoor Hi Op Wall Sounder (Red Enclosure), Deep Base, IP33C Note: 1) Approved to EN 54-3 at the following tones: • 1 – CTEC Evacuation Tone (675Hz for 0.5s, 925Hz for 0.5s) • 3 – CTEC Fast Warble (920Hz for 0.25s, 975Hz for 0.25s) • 5 – Dutch Slow Whoop (sweep) (500-1200Hz for 3.5s, 0.5s off) • 6 – DIN Tone (1200Hz-500Hz for 1s) • 15 – French Fire Tone (554Hz for 100ms / 440Hz for 380ms to 420ms)	176q/03
BF430C/CC/DR/65	Conventional Type B Outdoor Hi Op Wall Sounder (Red Enclosure), Deep Base, IP55C Note: 1) Approved to EN 54-3 at the following tones: • 1 – CTEC Evacuation Tone (675Hz for 0.5s, 925Hz for 0.5s) • 3 – CTEC Fast Warble (920Hz for 0.25s, 975Hz for 0.25s) • 5 – Dutch Slow Whoop (sweep) (500-1200Hz for 3.5s, 0.5s off) • 6 – DIN Tone (1200Hz-500Hz for 1s) • 15 – French Fire Tone (554Hz for 100ms / 440Hz for 380ms to 420ms)	176q/04

Bases:

Deep Base
Shallow Base
C4408 Activ Base

Accessories:

BF431/QCP	Quick Connect Plate
BF330CTLIDW	White Cap
BF330CTLIDR	Red Cap

A copy of the certificate, confirming the full scope of approval including notes relating to the superscript references in the above table, may be viewed online by clicking on the product name in the associated entry on www.RedBookLive.com

Certificate No: 176r to EN 54-3:2014 + A1:2019, EN 54-23:2010

Certificated Products		LPCB Ref. No.
BF432C/CC/W	Conventional Type A Indoor O Class Base Sounder VAD, White LED (White Enclosure) IP21C Notes: 1) Approved to EN 54-3 (High volume only) at the following tones: - 1 CTEC Evacuation Tone (610Hz for 0.5s, 810Hz for 0.5s) - 3 CTEC Fast Warble (810Hz for 0.25s, 610Hz for 0.25s) - 5 Dutch Slow Whoop (sweep) (500-1200Hz for 3.5s, 0.5s off) - 6 DIN Tone (1200Hz-500Hz for 1s) - 15 French Fire Tone (554Hz for 100ms / 440Hz for 380ms to 420ms) - Operating Voltage 18-30 VDC 2) Meets the requirements of EN 54-23 for the following: - Category O-R-3-2.5-17 - Flash rate 0.5Hz synchronised - Operating voltage range 18-30 VDC 3) The device must be used with Quick Connect Plate (BF431/QCP) Can be used as either: - A stand-alone device with locking white cap (BF330CTLIDW) or red cap (BF330CTLIDR), or, - A stacked sounder/VAD combination with detectors from C-TECs range of Activ conventional detectors - C4408 Activ basic base, shall be used when detector is fitted.	176r/01
BF456C/CC/W	Conventional Type A Indoor C Class Base Sounder VAD, White LED (White Enclosure) IP21C Notes: 1) Approved to EN 54-3 (High volume only) at the following tones: - 1 - CTEC Evacuation Tone (610Hz for 0.5s, 810Hz for 0.5s) - 3 - CTEC Fast Warble (810Hz for 0.25s, 610Hz for 0.25s) - 5 - Dutch Slow Whoop (sweep) (500-1200Hz for 3.5s, 0.5s off) - 6 - DIN Tone (1200Hz-500Hz for 1s) - 15 - French Fire Tone (554Hz for 100ms / 440Hz for 380ms to 420ms) - Operating Voltage 18-30 VDC 2) Meets the requirements of EN 54-23 for the following: - Category C-3-8.5 - Flash rate 0.5Hz synchronised - Operating voltage range 18-30 VDC 3) The device must be used with Quick Connect Plate (BF431/QCP) Can be used as either: - A stand-alone device with locking white cap (BF330CTLIDW) or red cap (BF330CTLIDR), or, - A stacked sounder/VAD combination with detectors from C-TECs range of Activ conventional detectors - C4408 Activ basic base, shall be used when detector is fitted.	176r/02
BF433C/CC/SR	Conventional Type A Indoor Hi Op Wall Sounder VAD (Red Enclosure), Shallow Base, IP21C Notes: 1) Approved to EN 54-3 at the following tones: • 1 – CTEC Evacuation Tone (675Hz for 0.5s, 925Hz for 0.5s) • 3 – CTEC Fast Warble (920Hz for 0.25s, 975Hz for 0.25s) • 5 – Dutch Slow Whoop (sweep) (500-1200Hz for 3.5s, 0.5s off) • 6 – DIN Tone (1200Hz-500Hz for 1s) • 15 – French Fire Tone (554Hz for 100ms / 440Hz for 380ms to 420ms) 2) Meets the requirements of EN 54-23 for the following: - Category W-2.75-9 / W-4-4 - Flash rate 0.5Hz synchronised - Operating voltage range 18-30 VDC	176r/03
BF433C/CC/DR	Conventional Type B Outdoor Hi Op Wall Sounder VAD (Red Enclosure), Deep Base, IP33C Notes: 1) Approved to EN 54-3 at the following tones: • 1 – CTEC Evacuation Tone (675Hz for 0.5s, 925Hz for 0.5s) • 3 – CTEC Fast Warble (920Hz for 0.25s, 975Hz for 0.25s)	176r/04

Certificated Products		LPCB Ref. No.
	• 5 – Dutch Slow Whoop (sweep) (500-1200Hz for 3.5s, 0.5s off) • 6 – DIN Tone (1200Hz-500Hz for 1s) • 15 – French Fire Tone (554Hz for 100ms / 440Hz for 380ms to 420ms) 2) Meets the requirements of EN 54-23 for the following: - Category W-2.75-9 / W-4-4 - Flash rate 0.5Hz synchronised - Operating voltage range 18-30 VDC	
BF433C/CC/DR/65	Conventional Type B Outdoor Hi Op Wall Sounder VAD (Red Enclosure), Deep Base, IP55C Notes: 1) Approved to EN 54-3 at the following tones: • 1 – CTEC Evacuation Tone (675Hz for 0.5s, 925Hz for 0.5s) • 3 – CTEC Fast Warble (920Hz for 0.25s, 975Hz for 0.25s) • 5 – Dutch Slow Whoop (sweep) (500-1200Hz for 3.5s, 0.5s off) • 6 – DIN Tone (1200Hz-500Hz for 1s) • 15 – French Fire Tone (554Hz for 100ms / 440Hz for 380ms to 420ms) 2) Meets the requirements of EN 54-23 for the following: - Category W-2.75-9 / W-4-4 - Flash rate 0.5Hz synchronised - Operating voltage range 18-30 VDC	176r/05

Bases:
Deep base
Shallow base
C4408 Activ Base

Accessories:

BF431/QCP	Quick Connect Plate
BF330CTLIDW	White Cap
BF330CTLIDR	Red Cap

A copy of the certificate, confirming the full scope of approval including notes relating to the superscript references in the above table, may be viewed online by clicking on the product name in the associated entry on www.RedBookLive.com

---

Context Plus Limited

Progress House, Newby Road, Hazel Road, Stockport SK7 5DA, United Kingdom
Tel: 01612572541
E-mail: contextplus@xportsales.com • Website: www.contextplus.co.uk

---

Context Plus Ltd

Progress House, Newby Industrial Estate, Newby Road, Hazel Grove, Stockport SK7 5DA, United Kingdom
Tel: +44 (0)161 257 2541 • Fax: +44 (0)161 225 8817
E-mail: xportsales@xportsales.com • Website: www.xportsales.com

Certificate No: 546a-(cl-6) to EN 54-3:2001 + A1:2002 + A2:2006

Audible Warning Devices

Certificated Products		LPCB Ref. No.
CP550SB	Conventional Indoor Type A Sounder Notes: 1. The sounder is approved in red and white colours (-R and -W suffixes) 2. Certified to EN 54-3: 2001 with the following selectable tones: 1 - LF Sweep frequency (800-1000Hz in 0.5sec) 25 - German DIN tone Sweep (1200-500Hz @ 1Hz) 27 - French tone AFNOR (554Hz for 100ms and 440Hz for 400ms) 2 nd Stage tone for all above (800Hz continuous tone)	546a/01

Certificated Products		LPCB Ref. No.
	11 - 2nd Stage, Dutch sweep tone (500-1200Hz for 3.5s on, 0.5s off)	
CP550DB	Conventional Outdoor Type B Sounder Notes: 1. The sounder is approved in red and white colours (-R and -W suffixes) 2. Certified to EN 54-3: 2001 with the following selectable tones: 1 - LF Sweep frequency (800-1000Hz in 0.5sec) 25 - German DIN tone Sweep (1200-500Hz @ 1Hz) 27 - French tone AFNOR (554Hz for 100ms and 440Hz for 400ms) 2nd Stage tone for all above (800Hz continuous tone) 11 - 2nd Stage, Dutch sweep tone (500-1200Hz for 3.5s on, 0.5s off)	546a/01
CP850BSW	Conventional Indoor Type A Sounder Base Notes: 1. Also approved in Off-white, Ivory and Alternative white (-O, -I, and -A suffixes) 2. Meets the requirements of EN 54-3 at the following tone settings on low, medium and high volume settings: 1 - LF Sweep (800-1000Hz @ 0.5 Sec) 3 - Warble Tone BS (800-1000Hz @ 0.5 Sec) 11 - 1st Stage, Dutch Sweep Tone (970Hz Cont) 11 - 2nd Stage, Dutch Sweep Tone (500-1200Hz for 3.5s on, 0.5s off) 25 - German DIN Tone (Sweep 1200-500Hz @ 1 Hz) 27 - French Tone AFNOR (554 Hz 100ms and 440Hz for 400ms) 3. Cover Plate (white) - Part no. 116-099 Cover Plate (ivory) - Part no. 116-119	546a/04

Bases
SB-400IMC Shallow base (red)
DB-450IMC Deep base (red)
Deep Base
45681-518IML Enhanced Deep Isolating Base (Red)

A copy of the certificate, confirming the full scope of approval including notes relating to the superscript references in the above table, may be viewed online by clicking on the product name in the associated entry on www.RedBookLive.com

Certificate No: 176f-(cl-2) to EN 54-17:2005, EN 54-3:2014 + A2:2019, EN 54-23:2010

Certificated Products		LPCB Ref. No.
CON433A/CX/DR	Hi-Output Addressable Type B (outdoor) Wall Sounder VAD with Short Circuit Isolator, Deep Base (Red) (Apollo Discovery)Notes: 1. Meets the requirements of EN 54-23 for the following: - Category W-2.4-8.2 - Flash rate 0.5Hz - Synchronization - Operating voltage range 21-28 VDC 2. Meets the requirements of EN 54-3 for the following: - Evacuate, 572Hz for 0.5s, 720Hz for 0.5s - Alternating, 962Hz for 0.25s, 572Hz for 0.25s - Dutch slow sweep, 500Hz to 1200Hz for 3.5s on, 0.5s off- Operating voltage range 17-28 VDC	176f/02
CA433A/DR/65/CON	Addressable CAST Protocol Type B High Output Wall Sounder VAD with Short Circuit Isolator, Red, IP55 (BFIPPLATE/R and IP55 Deep Base) Notes: 1. Meets the requirements of EN 54-3 at the following tones: - Evacuate, 675Hz for 0.5s, 925Hz for 0.5s - Fast Warble, 920Hz for 0.25s, 975Hz for 0.25s - Dutch Slow Whoop (sweep), 500Hz to 1200Hz for 3.5s on, 0.5s off - German DIN Tone, 1200Hz to 500Hz for 1s - French Fire Tone, 554Hz for 100ms/440Hz for 400ms - US Temporal LF (ISO 8201), 3x(970Hz, 0.5s on, 0.5s off), 1s off - Operating voltage range 24-40V d.c 2. The Wall Mounted VAD meets the requirements of EN 54-23:2010 for the following: - Category rating W-2.75-9 or W-4-4 - Synchronization - Flash rate 0.5Hz - Red LED	176f/06

Bases
Deep Base IP55
BFIPPLATE/R IP Protection Plate for Compact / Hi OP / Sounder VAD - Red

A copy of the certificate, confirming the full scope of approval including notes relating to the superscript references in the above table, may be viewed online by clicking on the product name in the associated entry on www.RedBookLive.com

Certificate No: 176e-(cl-3) to EN 54-3:2014 + A1:2019, EN 54-17:2005

Certificated Products		LPCB Ref. No.
CON430A/CX/DR	Hi-Output Addressable Type B (outdoor) Wall Sounder with Short Circuit Isolator, Deep Base (Red) (Apollo Discovery) Note: 1. Meets the requirements of EN 54-3 at the following tones: - Evacuate, 572Hz for 0.5s, 720Hz for 0.5s - Alternating, 962Hz for 0.25s, 572Hz for 0.25s - Dutch slow sweep, 500Hz to 1200Hz for 3.5s on, 0.5s off	176e/02
CON431A/CX/W	Addressable Type A (indoor) Ceiling Sounder Base with Short Circuit Isolator (Apollo Discovery) Notes: 1. Meets the requirements of EN 54-3 at the following tones: - Evacuate, 550Hz for 0.5s, 825Hz for 0.5s - Alternating, 925Hz for 0.25s, 626Hz for 0.25s - Dutch slow sweep, 500Hz to 1200Hz for 3.5s on, 0.5s off 2. Can be used as: - A stacked sounder base combination with detectors from the Apollo Discovery range	176e/03
CA430A/DR/65/CON	Addressable CAST Protocol Type B High Output Wall Sounder with Short Circuit Isolator, Deep Base, Red, IP55 Note: Meets the requirements of EN 54-3 at the following tones: - Evacuate, 675Hz for 0.5s, 925Hz for 0.5s - Fast Warble, 920Hz for 0.25s, 975Hz for 0.25s - Dutch Slow Whoop (sweep), 500Hz to 1200Hz for 3.5s on, 0.5s off - German DIN Tone, 1200Hz to 500Hz for 1s - French Fire Tone, 554Hz for 100ms/440Hz for 400ms - US Temporal LF (ISO 8201), 3x(970Hz, 0.5s on, 0.5s off), 1s off - Operating voltage range 24-40V dc	176e/06
CA431A/W/CON	Addressable CAST Protocol Type A Ceiling Base Sounder with Short Circuit Isolator, White, IP21C Note: 1. Meets the requirements of EN 54-3:2001 for the following tones: - Evacuate, 610 Hz for 0.5 sec, 810 Hz for 0.5 sec - Fast Warble, 810 Hz for 0.25 sec, 610 Hz for 0.25 sec - Dutch Slow Whoop (sweep), 500 Hz to 1200 Hz for 3.5 sec on, 0.5 sec off - German DIN Tone, 1200Hz-500Hz for 1s - French Fire Tone, 554Hz for 100ms/440Hz for 440ms - Operating voltage range 24-40V dc	176e/08

Bases

Shallow Base	IP21C
Deep Base	IP55

A copy of the certificate, confirming the full scope of approval including notes relating to the superscript references in the above table, may be viewed online by clicking on the product name in the associated entry on www.RedBookLive.com

Certificate No: 010ak-(cl-6) to EN 54-3:2001+A1:2002+A2:2006

Certificated Products		LPCB Ref. No.
55000-005IMC	Intelligent Open-Area Sounder Visual Indicator Red with Red Lens (45681-518IML Enhanced Deep Isolating Base) Notes: 1. Meets the requirements of EN 54-3:2001 at the following tones: Apollo standard-840Hz,0.5s/558Hz,0.5s Dutch (slow whoop)- 500-1200Hz in 3.5s, 0.5s off German DIN-1200-500Hz over 1s 2. The Beacon function is not approved to EN 54-23	010ak/03

Bases

45681-518IML	Enhanced Deep Isolating Base (Red)

A copy of the certificate, confirming the full scope of approval including notes relating to the superscript references in the above table, may be viewed online by clicking on the product name in the associated entry on www.RedBookLive.com

Cooper Lighting and Safety Ltd

Wheatley Hall Road, Doncaster, South Yorkshire DN2 4NB, United Kingdom
Tel: +44 (0)1302 303397 • Fax: +44 (0)1302 303251
Website: www.cooper-ls.com

Cranford Controls Limited

Unit 2, Waterbrook Estate, Waterbrook Road, Alton, Hampshire GU34 2UD, United Kingdom
Tel: +44 (0)1420 592444 • Fax: +44 (0)1420 592445
E-mail: n.young@cranfordcontrols.com • Website: www.cranfordcontrols.com

Certificate No: 546a to EN 54-3: 2001 + A1: 2002 + A2: 2006

Certificated Products		**LPCB Ref. No.**
VTG-32E-SB	Conventional indoor Type A sounder *Notes:* *1) The sounder is approved in red and white colours (-R and -W suffixes)* *2) Certified to EN54-3: 2001 with the following selectable tones:* *1 - LF Sweep frequency (800-1000Hz in 0.5sec)* *25 - German DIN tone Sweep (1200-500Hz @ 1Hz)* *27 - French tone AFNOR (554Hz for 100ms and 440Hz for 400ms)* *2nd Stage tone for all above (800Hz continuous tone)* *11 - 2nd Stage, Dutch sweep tone (500-1200Hz for 3.5s on, 0.5s off)*	546a/01
VTG-32E-DB	Conventional outdoor Type B sounder *Notes:* *1) The sounder is approved in red and white colours (-R and -W suffixes)* *2) Certified to EN54-3: 2001 with the following selectable tones:* *1 - LF Sweep frequency (800-1000Hz in 0.5sec)* *25 - German DIN tone Sweep (1200-500Hz @ 1Hz)* *27 - French tone AFNOR (554Hz for 100ms and 440Hz for 400ms)* *2nd Stage tone for all above (800Hz continuous tone)* *11 - 2nd Stage, Dutch sweep tone (500-1200Hz for 3.5s on, 0.5s off)*	546a/01
VSO-32E	Conventional indoor Type A sounder base *Notes:* *1) Also approved in Off-white, Ivory and Alternative white (-O, -I, and -A suffixes)* *2) Meets the requirements of EN 54-3 at the following tone settings on low, medium and high volume settings:* *1 - LF Sweep (Cranford sweep) (800-1000Hz @ 0.5 Sec)* *3 - Warble Tone BS (800-1000Hz @ 0.5 Sec)* *11 - 1st Stage, Dutch Sweep Tone (970Hz Cont)* *11 - 2nd Stage, Dutch Sweep Tone (500-1200Hz for 3.5s on, 0.5s off)* *25 - German DIN Tone (Sweep 1200-500Hz @ 1Hz)* *27- French Tone AFNOR (554Hz 100ms and 440Hz for 400 ms)* *3) Cover plate (Part No. 116-099) must be used .*	546a/04
VPR-SA4E	Conventional Outdoor Type B Wall Sounder (116-100 Mounting Base) *Notes:* *1. The Sounder is approved in Red (Part No.: 505-047) and White (Part No.: 505-048) Colours (-R and -W suffixes)* *2. Certified to EN 54-3: 2001 with the following selectable tones:* *Continuous Tone, 800Hz continuous* *Sweep Tone, 800Hz - 1000Hz swept every 500ms (2Hz)* *Pips Tone, 800Hz for 800ms, then off for 500ms* *Warble Tone, 800Hz for 800ms, then 1000Hz for 500ms*	546a/06

Base:
116-100 Viper Mounting Base
A copy of the certificate, confirming the full scope of approval including notes relating to the superscript references in the above table, may be viewed online by clicking on the product name in the associated entry on www.RedBookLive.com

DEF

7, rue du Saule Trapu, MASSY 91300, France
Tel: +33 (0) 160136772
E-mail: frederic.chateau@coflec.com

Certificate No: 1451c-(cl-1) to EN 54-3:2014 + A1:2019

Certificated Products		LPCB Ref. No.
ZEPHYR-DSAF	Conventional Type A Sounder (S3000M base) Notes: 1) Meets the requirements of EN 54-3 at the following tones: Configuration 1: - NFS-32001, Alternating, 554Hz & 440Hz, 100ms-400ms Configuration 2 - NFS-32001, Alternating, 554Hz & 440Hz, 100ms-400ms - DIN 33404, Sweep, 1200Hz to 500Hz, 1Hz - GB tone 1, Sweep, 800Hz to 970Hz, 1Hz 2) Operating Voltage Range 16Vdc to 60Vdc	1451c/01
ZEPHYR-SDSAF	Conventional Type A Base Sounder Notes: 1) Meets the requirements of EN 54-3 at the following tones: Configuration 1: - NFS-32001, Alternating, 554Hz & 440Hz, 100ms-400ms Configuration 2: - NFS-32001, Alternating, 554Hz & 440Hz, 100ms-400ms - DIN 33404, Sweep, 1200Hz to 500Hz, 1Hz - GB tone 1, Sweep, 800Hz to 970Hz, 1Hz 2) Operating Voltage Range 16Vdc to 60Vdc 3) a) A detector (LYNX & ORION range) can be fitted to this base. b) When a cover plate is fitted it is a stand-alone base sounder.	1451c/02

Accessories:
S3000M Base
Cover Plate
A copy of the certificate, confirming the full scope of approval including notes relating to the superscript references in the above table, may be viewed online by clicking on the product name in the associated entry on www.RedBookLive.com

Certificate No: 1451d-(cl-1) to EN 54-3:2014 + A1:2019, EN 54-17:2005

Certificated Products		LPCB Ref. No.
ZEPHYRA-DSAF	Addressable Type A Sounder with Short Circuit Isolator (S3000M base) Notes: 1) Meets the requirements of EN 54-3 at the following tones: Configuration 1: - NFS-32001, Alternating, 554Hz & 440Hz, 100ms-400ms - DIN 33404, Sweep, 1200Hz to 500Hz, 1Hz - GB tone 1, Sweep, 800Hz to 970Hz, 1Hz Configuration 2: - NFS-32001, Alternating, 554Hz & 440Hz, 100ms-400ms - DIN 33404, Sweep, 1200Hz to 500Hz, 1Hz - GB tone 1, Sweep, 800Hz to 970Hz, 1Hz - Battery management (This battery management is not part of the scope of EN 54-3). 2) Operating Voltage Range 30Vdc to 41Vdc	1451d/01
ZEPHYRA-SDSAF	Addressable Type A Base Sounder with Short Circuit Isolator Notes: 1) Meets the requirements of EN 54-3 at the following tones: Configuration 1: - NFS-32001, Alternating, 554Hz & 440Hz, 100ms-400ms - DIN 33404, Sweep, 1200Hz to 500Hz, 1Hz - GB tone 1, Sweep, 800Hz to 970Hz, 1Hz	1451d/02

Certificated Products		LPCB Ref. No.
	Configuration 2: - NFS-32001, Alternating, 554Hz & 440Hz, 100ms-400ms - DIN 33404, Sweep, 1200Hz to 500Hz, 1Hz - GB tone 1, Sweep, 800Hz to 970Hz, 1Hz - Battery management (This battery management is not part of the scope of EN 54-3). 2) Operating Voltage Range 30Vdc to 41Vdc 3) a) A detector (LYNX & ORION range) can be fitted to this base. b) When a cover plate is fitted it is a stand-alone base sounder.	

Accessories

S3000M Base
Cover Plate

A copy of the certificate, confirming the full scope of approval including notes relating to the superscript references in the above table, may be viewed online by clicking on the product name in the associated entry on www.RedBookLive.com

---

Detectomat Systems GmbH

An der Strusbek 3, 22926 Ahrensburg, Hamburg, Germany
Tel: +49 41 02 21 14 60 • Fax: +49 4102 2114 670
E-mail: zulassung@detectomat.com

Certificate No: 1451a-(cl-1) to EN 54-3:2014 + A1:2019

Certificated Products		LPCB Ref. No.
AVS3000	Conventional Type A Sounder (S3000M base) Notes: 1) Meets the requirements of EN 54-3 at the following tones: Configuration 1: - NFS-32001, Alternating, 554Hz & 440Hz, 100ms-400ms Configuration 2: - NFS-32001, Alternating, 554Hz & 440Hz, 100ms-400ms - DIN 33404, Sweep, 1200Hz to 500Hz, 1Hz - GB tone 1, Sweep, 800Hz to 970Hz, 1Hz 2) Operating Voltage Range 16Vdc to 60Vdc	1451a/01
AS3000	Conventional Type A Base Sounder Notes: 1) Meets the requirements of EN 54-3 at the following tones: Configuration 1: - NFS-32001, Alternating, 554Hz & 440Hz, 100ms-400ms Configuration 2: - NFS-32001, Alternating, 554Hz & 440Hz, 100ms-400ms - DIN 33404, Sweep, 1200Hz to 500Hz, 1Hz - GB tone 1, Sweep, 800Hz to 970Hz, 1Hz 2) Operating Voltage Range 16Vdc to 60Vdc 3) a) A detector (LYNX & ORION range) can be fitted to this base. b) When a cover plate is fitted it is a stand-alone base sounder.	1451a/02

Accessories:
S3000M Base
Cover Plate
A copy of the certificate, confirming the full scope of approval including notes relating to the superscript references in the above table, may be viewed online by clicking on the product name in the associated entry on www.RedBookLive.com

Certificate No: 1451b-(cl-1) to EN 54-3:2014 + A1:2019, EN 54-17:2005

Certificated Products		LPCB Ref. No.
AVS3000A	Addressable Type A Sounder with Short Circuit Isolator (S3000M base) Notes: 1) Meets the requirements of EN 54-3 at the following tones: Configuration 1: - NFS-32001, Alternating, 554Hz & 440Hz, 100ms-400ms	1451b/01

Certificated Products		LPCB Ref. No.
	- DIN 33404, Sweep, 1200Hz to 500Hz, 1Hz - GB tone 1, Sweep, 800Hz to 970Hz, 1Hz 2) Operating Voltage Range 30Vdc to 41Vdc	
AS3000A	Addressable Type A Base Sounder with Short Circuit Isolator Notes: 1) Meets the requirements of EN 54-3 at the following tones: Configuration 1: - NFS-32001, Alternating, 554Hz & 440Hz, 100ms-400ms - DIN 33404, Sweep, 1200Hz to 500Hz, 1Hz - GB tone 1, Sweep, 800Hz to 970Hz, 1Hz 2) Operating Voltage Range 30Vdc to 41Vdc 3) a) A detector (LYNX & ORION range) can be fitted to this base. b) When a cover plate is fitted it is a stand-alone base sounder.	1451b/02

Accessories

S3000M Base Cover Plate

A copy of the certificate, confirming the full scope of approval including notes relating to the superscript references in the above table, may be viewed online by clicking on the product name in the associated entry on www.RedBookLive.com

---

Eaton Electrical Systems Limited

Wheatley Hall Road, Doncaster, South Yorkshire DN2 4NB, United Kingdom
Tel: +44 (0)1302 303397 • Fax: +44 (0)1302 303397

Certificate No: 714j to EN 54-3: 2001 + A1: 2002 + A2: 2006 EN 54-17: 2005
Certificate No: 714s to EN 54-17:2005. EN 54-23:2010

Certificated Products		LPCB Ref. No.
CASB383	Addressable Type A Wall Sounder/Beacon with short circuit isolator *Notes:* *1. Meets the requirements of EN54-3: 2001 for the following tones:* *- Continuous 984Hz* *- Pulsed 984 / 0Hz pulse 1Hz* *- Two Tone 644 / 984Hz @ 1 Hz cycle* *- Slow whoop 500-1200Hz in 3.5 seconds / 0.5secs gap* *2. The beacon functionality is not included within the scope of this approval*	714j/01
MASB860	Addressable Type A Wall Sounder/Beacon with short circuit isolator *Notes:* *1. Meets the requirements of EN54-3: 2001 for the following tones:* *- Continuous 984Hz* *- Pulsed 984 / 0Hz pulse 1Hz* *- Two Tone 644 / 984Hz @ 1 Hz cycle* *- Slow whoop 500-1200Hz in 3.5 seconds / 0.5secs gap* *2. The beacon functionality is not included within the scope of this approval*	714j/01
FXN539LPS	Addressable Type A Wall Sounder/Beacon with short circuit isolator *Notes:* *1. Meets the requirements of EN54-3: 2001 for the following tones:* *- Continuous 984Hz* *- Pulsed 984 / 0Hz pulse 1Hz* *- Two Tone 644 / 984Hz @ 1 Hz cycle* *- Slow whoop 500-1200Hz in 3.5 seconds / 0.5secs gap* *2. The beacon functionality is not included within the scope of this approval*	714j/01
CASB383WP	Addressable Type B Wall Sounder/Beacon with short circuit isolator *Notes:* *1. Meets the requirements of EN54-3: 2001 for the following tones:* *- Continuous 984Hz* *- Pulsed 984 / 0Hz pulse 1Hz* *- Two Tone 644 / 984Hz @ 1 Hz cycle* *- Slow whoop 500-1200Hz in 3.5 seconds / 0.5secs gap* *2. The beacon functionality is not included within the scope of this approval*	714j/02
MASB860WP	Addressable Type B Wall Sounder/Beacon with short circuit isolator *Notes:* *1. Meets the requirements of EN54-3: 2001 for the following tones:* *- Continuous 984Hz*	714j/02

Certificated Products		LPCB Ref. No.
	- Pulsed 984 / 0Hz pulse 1Hz *- Two Tone 644 / 984Hz @ 1 Hz cycle* *- Slow whoop 500-1200Hz in 3.5 seconds / 0.5secs gap* *2. The beacon functionality is not included within the scope of this approval*	
FXN539LPSWP	Addressable Type B Wall Sounder/Beacon with short circuit isolator *Notes:* *1. Meets the requirements of EN54-3: 2001 for the following tones:* *- Continuous 984Hz* *- Pulsed 984 / 0Hz pulse 1Hz* *- Two Tone 644 / 984Hz @ 1 Hz cycle* *- Slow whoop 500-1200Hz in 3.5 seconds / 0.5secs gap* *2. The beacon functionality is not included within the scope of this approval*	714j/02
CASBB384	Addressable Type A Sounder/Beacon Base with short circuit isolator *Notes:* *1. Meets the requirements of EN54-3: 2001 for the following tones:* *- Continuous 910Hz* *- Pulsed 910 / 0Hz pulse 1Hz* *- Two Tone 610 / 910Hz @ 1 Hz cycle* *- Slow whoop 500-1200Hz in 3.5 seconds / 0.5secs gap* *2. The beacon functionality is not included within the scope of this approval*	714j/03
MASB870	Addressable Type A Sounder/Beacon Base with short circuit isolator *Notes:* *1. Meets the requirements of EN54-3: 2001 for the following tones:* *- Continuous 910Hz* *- Pulsed 910 / 0Hz pulse 1Hz* *- Two Tone 610 / 910Hz @ 1 Hz cycle* *- Slow whoop 500-1200Hz in 3.5 seconds / 0.5secs gap* *2. The beacon functionality is not included within the scope of this approval*	714j/03
FXN537	Addressable Type A Sounder/Beacon Base with short circuit isolator *Notes:* *1. Meets the requirements of EN54-3: 2001 for the following tones:* *- Continuous 910Hz* *- Pulsed 910 / 0Hz pulse 1Hz* *- Two Tone 610 / 910Hz @ 1 Hz cycle* *- Slow whoop 500-1200Hz in 3.5 seconds / 0.5secs gap* *2. The beacon functionality is not included within the scope of this approval*	714j/03
CAS380	Addressable Type A Sounder Base with short circuit isolator *Note:* *1. Meets the requirements of EN54-3: 2001 for the following tones:* *- Continuous 910Hz* *- Pulsed 910 / 0Hz pulse 1Hz* *- Two Tone 610 / 910Hz @ 1 Hz cycle* *- Slow whoop 500-1200Hz in 3.5 seconds / 0.5secs gap*	714j/04
MAS850	Addressable Type A Sounder Base with short circuit isolator *Note:* *1. Meets the requirements of EN54-3: 2001 for the following tones:* *- Continuous 910Hz* *- Pulsed 910 / 0Hz pulse 1Hz* *- Two Tone 610 / 910Hz @ 1 Hz cycle* *- Slow whoop 500-1200Hz in 3.5 seconds / 0.5secs gap*	714j/04
FXN538	Addressable Type A Sounder Base with short circuit isolator *Note:* *1. Meets the requirements of EN54-3: 2001 for the following tones:* *- Continuous 910Hz* *- Pulsed 910 / 0Hz pulse 1Hz* *- Two Tone 610 / 910Hz @ 1 Hz cycle* *- Slow whoop 500-1200Hz in 3.5 seconds / 0.5secs gap*	714j/04
CAS381	Addressable Type A Wall Sounder with short circuit isolator *Note:* *1. Meets the requirements of EN54-3: 2001 for the following tones:* *- Continuous 984Hz* *- Pulsed 984 / 0Hz pulse 1Hz* *- Two Tone 644 / 984Hz @ 1 Hz cycle* *- Slow whoop 500-1200Hz in 3.5 seconds / 0.5secs gap*	714j/05
MAS850LPS	Addressable Type A Wall Sounder with short circuit isolator *Note:* *1. Meets the requirements of EN54-3: 2001 for the following tones:* *- Continuous 984Hz* *- Pulsed 984 / 0Hz pulse 1Hz* *- Two Tone 644 / 984Hz @ 1 Hz cycle* *- Slow whoop 500-1200Hz in 3.5 seconds / 0.5secs gap*	714j/05
FXN538LPS	Addressable Type A Wall Sounder with short circuit isolator	714j/05

Certificated Products		LPCB Ref. No.
	Note: *1. Meets the requirements of EN54-3: 2001 for the following tones:* *- Continuous 984Hz* *- Pulsed 984 / 0Hz pulse 1Hz* *- Two Tone 644 / 984Hz @ 1 Hz cycle* *- Slow whoop 500-1200Hz in 3.5 seconds / 0.5secs gap*	
CAS381WP	Addressable Type B Wall Sounder with short circuit isolator *Note:* *1. Meets the requirements of EN54-3: 2001 for the following tones:* *- Continuous 984Hz* *- Pulsed 984 / 0Hz pulse 1Hz* *- Two Tone 644 / 984Hz @ 1 Hz cycle* *- Slow whoop 500-1200Hz in 3.5 seconds / 0.5secs gap*	714j/06
MAS850LPSWP	Addressable Type B Wall Sounder with short circuit isolator *Note:* *1. Meets the requirements of EN54-3: 2001 for the following tones:* *- Continuous 984Hz* *- Pulsed 984 / 0Hz pulse 1Hz* *- Two Tone 644 / 984Hz @ 1 Hz cycle* *- Slow whoop 500-1200Hz in 3.5 seconds / 0.5secs gap*	714j/06
FXN538LPSWP	Addressable Type B Wall Sounder with short circuit isolator *Note:* *1. Meets the requirements of EN54-3: 2001 for the following tones:* *- Continuous 984Hz* *- Pulsed 984 / 0Hz pulse 1Hz* *- Two Tone 644 / 984Hz @ 1 Hz cycle* *- Slow whoop 500-1200Hz in 3.5 seconds / 0.5secs gap*	714j/06
CASB383-B	Addressable Type A Wall Sounder/Beacon with Short Circuit Isolator *Notes:* *1) Meets the requirements of EN54-3: 2001 for the following tones:* *- Continuous 984Hz* *- Pulsed 984 / 0Hz pulse 1Hz* *- Two Tone 644 / 984Hz @ 1 Hz cycle* *- Bell Tone (This tone is not EN 54-3 approved)* *2) The beacon functionality is not included within the scope of this approval*	714j/07
CASB383WP-B	Addressable Type A/B Wall Sounder/Beacon with Short Circuit Isolator *Notes:* *1. Meets the requirements of EN54-3: 2001 for the following tones:* *- Continuous 984Hz* *- Pulsed 984 / 0Hz pulse 1Hz* *- Two Tone 644 / 984Hz @ 1 Hz cycle* *- Bell Tone (This tone is not EN 54-3 approved)* *2. The beacon functionality is not included within the scope of this approval*	714j/08
CASBB384-B	Addressable Type A Sounder/Beacon Base with Short Circuit Isolator *Notes:* *1. Meets the requirements of EN54-3: 2001 for the following tones:* *- Continuous 910Hz* *- Pulsed 910 / 0Hz pulse 1Hz* *- Two Tone 610 / 910Hz @ 1 Hz cycle* *- Bell Tone (This tone is not EN 54-3 approved)* *2. The beacon functionality is not included within the scope of this approval*	714j/09
CAB482WS	Addressable Type A Red Light Flash Wall VAD with Isolator (Red Body) (Shallow Base) *Notes: 1. Meets the requirements of EN 54-23 at the following:* *- Category W-2.4-7.5 + W-2.4-2.5 - Flash rate 0.5Hz or 1Hz- Synchronisation* *- Red LED* *- Clear Lens*	714s/01
CAB482WD	Addressable Type A/B Red Light Flash Wall VAD with Isolator (Red Body) (Shallow Base/Deep Base) *Notes: 1. Meets the requirements of EN 54-23 at the following:* *- Category W-2.4-7.5 + W-2.4-2.48- Flash rate 0.5Hz or 1Hz- Synchronisation* *- Red LED* *- Clear Lens*	714s/02
CAB492WS	Addressable Type A White Light Flash Wall VAD with Isolator (Red Body) (Shallow Base) *Notes: 1. Meets the requirements of EN 54-23 at the following:* *- Category W-2.4-7.5 + W-2.4-2.5- Flash rate 0.5Hz or 1Hz- Synchronisation* *- White LED* *- Clear Lens*	714s/03
CAB492WD	Addressable Type A/B White Light Flash Wall VAD with Isolator (Red Body) (Shallow Base/Deep Base) *Notes: 1. Meets the requirements of EN 54-23 at the following:* *- Category W-2.4-7.5 + W-2.4-2.5- Flash rate 0.5Hz or 1Hz- Synchronisation* *- White LED*	714s/04

Certificated Products		LPCB Ref. No.
	- Clear Lens	
CAB482CS	Addressable Type A Red Light Flash Ceiling VAD with Isolator (Red Body) (Shallow Base) *Notes:* *1. Meets the requirements of EN 54-23 at the following:* *- Category C-3.0-7.5 + C-3.0-2.5* *- Flash rate 0.5Hz or 1Hz* *- Synchronisation* *- Red LED* *- Clear Lens*	714s/05
CAB492CS	Addressable Type A White Light Flash Ceiling VAD with Isolator (Red Body)(Shallow Base) *Notes: 1. Meets the requirements of EN 54-23 at the following:* *- Category C-3.0-7.5 + C-3.0-2.5- Flash rate 0.5Hz or 1Hz- Synchronisation* *- White LED* *- Clear Lens*	714s/06

Shallow Base (Type A)
Deep Base (Type B)

Certificate No: 714q to EN 54-23:2010, EN 54-3: 2001 + A1: 2002 + A2: 2006. EN 54-17:2005

Certificated Products		LPCB Ref. No.
CASB393	Addressable Type A Wall Sounder Beacon with Short Circuit Isolator (Red Housing) *Notes:* *1) Meets the requirements of EN 54-23 at the following:* *- Category rating Open Class* *- Synchronization* *- Flash rate 0.5Hz* *- White LED* *- Clear Lens* *2) Meets the requirements of EN 54-3 at the following tones:* *- Continuous 984Hz* *- Two Tone 644 / 984Hz @ 1Hz cycle* *- Slow whoop 500-1200Hz in 3.5s / 0.5s gap*	714q/01
FXN559LPS	Addressable Type A Wall Sounder Beacon with Short Circuit Isolator (Red Housing) *Notes:* *1) Meets the requirements of EN 54-23 at the following:* *- Category rating Open Class* *- Synchronization* *- Flash rate 0.5Hz* *- White LED* *- Clear Lens* *2) Meets the requirements of EN 54-3 at the following tones:* *- Continuous 984Hz* *- Two Tone 644 / 984Hz @ 1Hz cycle* *- Slow whoop 500-1200Hz in 3.5s / 0.5s gap*	714q/01
MASB880	Addressable Type A Wall Sounder Beacon with Short Circuit Isolator (Red Housing) *Notes:* *1) Meets the requirements of EN 54-23 at the following:* *- Category rating Open Class* *- Synchronization* *- Flash rate 0.5Hz* *- White LED* *- Clear Lens* *2) Meets the requirements of EN 54-3 at the following tones:* *- Continuous 984Hz* *- Two Tone 644 / 984Hz @ 1Hz cycle* *- Slow whoop 500-1200Hz in 3.5s / 0.5s gap*	714q/01
CASB393WP	Addressable Type B Wall Sounder Beacon with Short Circuit Isolator (Red Housing) *Notes:* *1) Meets the requirements of EN 54-23 at the following:* *- Category rating Open Class* *- Synchronization* *- Flash rate 0.5Hz* *- White LED* *- Clear Lens* *2) Meets the requirements of EN 54-3 at the following tones* *- Continuous 984Hz*	714q/02

Certificated Products		LPCB Ref. No.
	- Two Tone 644 / 984Hz @ 1Hz cycle *- Slow whoop 500-1200Hz in 3.5s / 0.5s gap*	
FXN559LPSWP	Addressable Type B Wall Sounder Beacon with Short Circuit Isolator (Red Housing) (JSB) *Notes:* *1) Meets the requirements of EN 54-23 at the following:* *- Category rating Open Class* *- Synchronization* *- Flash rate 0.5Hz* *- White LED* *- Clear Lens* *2) Meets the requirements of EN 54-3 at the following tones* *- Continuous 984Hz* *- Two Tone 644 / 984Hz @ 1Hz cycle* *- Slow whoop 500-1200Hz in 3.5s / 0.5s gap*	714q/02
MASB880WP	Addressable Type B Wall Sounder Beacon with Short Circuit Isolator (Red Housing) (Menvier) *Notes:* *1) Meets the requirements of EN 54-23 at the following:* *- Category rating Open Class* *- Synchronization* *- Flash rate 0.5Hz* *- White LED* *- Clear Lens* *2) Meets the requirements of EN 54-3 at the following tones* *- Continuous 984Hz* *- Two Tone 644 / 984Hz @ 1Hz cycle* *- Slow whoop 500-1200Hz in 3.5s / 0.5s gap*	714q/02
CASBB394	Addressable Type A Base Sounder Beacon (Open Class VAD) with Short Circuit Isolator (White Housing) *Notes:* *1) Meets the requirements of EN 54-23 at the following:* *Category rating Open Class* *Synchronization* *Flash rate 0.5Hz* *White LED* *Clear Lens* *2) Meets the requirements of EN 54-3 at the following tones:* *Continuous 910Hz* *Two tone 610 / 910Hz at 1Hz cycle* *Slow whoop 500 1200Hz in 3.5 seconds / 0.5second gap* *3) If detector heads are to be mounted on the addressable base sounder beacons the approved detector heads shall comply with the following physical attributes:* *Maximum Outer diameter 101mm Maximum height 43mm* *4) CASC cover for sounder base*	714q/03
FXN557	Addressable Type A Base Sounder Beacon (Open Class VAD) with Short Circuit Isolator (White Housing) (JSB) *Notes:* *1) Meets the requirements of EN 54-23 at the following:* *Category rating Open Class* *Synchronization* *Flash rate 0.5Hz* *White LED* *Clear Lens* *2) Meets the requirements of EN 54-3 at the following tones:* *Continuous 910Hz* *Two tone 610 / 910Hz at 1Hz cycle* *Slow whoop 500 1200Hz in 3.5 seconds / 0.5second gap* *3) If detector heads are to be mounted on the addressable base sounder beacons the approved detector heads shall comply with the following physical attributes:* *Maximum Outer diameter 101mm Maximum height 43mm* *4) CASC cover for sounder base*	714q/03
MASB890	Addressable Type A Base Sounder Beacon (Open Class VAD) with Short Circuit Isolator (White Housing) (Menvier) *Notes:* *1) Meets the requirements of EN 54-23 at the following:* *Category rating Open Class* *Synchronization* *Flash rate 0.5Hz* *White LED* *Clear Lens* *2) Meets the requirements of EN 54-3 at the following tones:*	714q/03

Certificated Products		LPCB Ref. No.
	Continuous 910Hz *Two tone 610 / 910Hz at 1Hz cycle* *Slow whoop 500 1200Hz in 3.5 seconds / 0.5second gap* *3) If detector heads are to be mounted on the addressable base sounder beacons the approved detector heads shall comply with the following physical attributes: Maximum Outer diameter 101mm Maximum height 43mm* *4) CASC cover for sounder base*	
CASBB394-O	Addressable Type A Base Sounder Beacon (Open Class VAD) with Short Circuit Isolator (White Housing) *Notes:* *1) Meets the requirements of EN 54-23 at the following:* *Category rating Open Class* *Synchronization* *Flash rate 0.5Hz* *White LED* *Clear Lens* *2) Meets the requirements of EN 54-3 at the following tones:* *Continuous 910Hz* *Two tone 610 / 910Hz at 1Hz cycle* *Slow whoop 500 1200Hz in 3.5 seconds / 0.5second gap* *3) If detector heads are to be mounted on the addressable base sounder beacons the approved detector heads shall comply with the following physical attributes: Maximum Outer diameter 101mm Maximum height 43mm* *4) CASC cover for sounder base*	714q/04
CASB483	Addressable Type A Red Flash Wall Sounder VAD with Short Circuit Isolator (Red Housing) *Notes:* *1) Meets the requirements of EN 54-23 at the following:* *- Category W-2.4-7.5 (High Power) + W-2.4-2.5 (Low Power)* *- Flash rate 0.5Hz or 1Hz* *- Synchronisation* *- Red LED* *- Clear Lens* *2) Meets the requirements of EN 54-3 at the following tones:* *- Continuous 984Hz* *- Two tone 644/984Hz at 1Hz cycle.* *- Slow whoop 500-1200Hz in 3.5 seconds / 0.5 second gap*	714q/05
CASB483WP	Addressable Type A/B Red Flash Wall Sounder VAD with Short Circuit Isolator (Red Housing) *Notes:* *1) Meets the requirements of EN 54-23 at the following:* *- Category W-2.4-7.5 (High Power) + W-2.4-2.5 (Low Power)* *- Flash rate 0.5Hz or 1Hz* *- Synchronisation* *- Red LED* *- Clear Lens* *2) Meets the requirements of EN 54-3 at the following tones:* *- Continuous 984Hz* *- Two tone 644/984Hz at 1Hz cycle.* *- Slow whoop 500-1200Hz in 3.5 seconds / 0.5 second gap*	714q/06
CASB493	Addressable Type A White Flash Wall Sounder VAD with Short Circuit Isolator (Red Housing) *Notes:* *1) Meets the requirements of EN 54-23 at the following:* *- Category W-2.4-7.27 (High Power) + W-2.4-2.18 (Low Power)* *- Flash rate 0.5Hz or 1Hz* *- Synchronisation* *- White LED* *- Clear Lens* *2) Meets the requirements of EN 54-3 at the following tones:* *- Continuous 984Hz* *- Two tone 644/984Hz at 1Hz cycle.* *- Slow whoop 500-1200Hz in 3.5 seconds / 0.5 second gap*	714q/07
CASB493WP	Addressable Type A/B White Flash Wall Sounder VAD with Short Circuit Isolator (Red Housing) *Notes:* *1) Meets the requirements of EN 54-23 at the following:* *- Category W-2.4-7.25 (High Power) + W-2.4-1.24 (Low Power)* *- Flash rate 0.5Hz or 1Hz* *- Synchronisation* *- White LED* *- Clear Lens*	714q/08

Certificated Products		LPCB Ref. No.
	2) Meets the requirements of EN 54-3 at the following tones: *- Continuous 984Hz* *- Two tone 644/984Hz at 1Hz cycle.* *- Slow whoop 500-1200Hz in 3.5 seconds / 0.5 second gap*	

A copy of the certificate, confirming the full scope of approval including notes relating to the superscript references in the above table, may be viewed online by clicking on the product name in the associated entry on www.RedBookLive.com

---

Eaton MEDC Ltd

Unit B, Sutton Parkway, Oddicroft Lane, Sutton-in-Ashfield NG17 5FB, United Kingdom
Tel: +44 (0)1623 444400 • Fax: +44 (0)1623 444531
E-mail: MEDCSales@eaton.com

Certificate No: 1120b to EN54-23: 2010

Visual Warning Devices

Certificated Products		LPCB Ref. No.
XB15 (White)	Conventional Visual Alarm Device Type B (white light) 1) The VAD does not contain a function for synchronicity between devices. 2) The VAD is rated as C-3-32, C-6-31, C-9-12 and W-8-13. 3) The VAD must only be used with the clear lens and is only approved for the 24V d.c. version, at 1Hz flash rate and must not be used with a lens guard. 4) When used as a wall mounted VAD the device must be installed in accordance with the guidance given in TM250.	1120b/01
XB15 (Red)	Conventional Visual Alarm Device Type B (red light) 1) The VAD does not contain a function for synchronicity between devices. 2) The VAD is rated as C-3-16, C-6-6 and W-3-5. 3) The VAD must only be used with the red lens and is only approved for the 24V d.c. version, at 1Hz flash rate and must not be used with a lens guard. 4) When used as a wall mounted VAD the device must be installed in accordance with the guidance given in TM250.	1120b/02

A copy of the certificate, confirming the full scope of approval including notes relating to the superscript references in the above table, may be viewed online by clicking on the product name in the associated entry on www.RedBookLive.com

Certificate No: 1120a to EN 54-3: 2001 + A1: 2002 + A2: 2006

Audible Warning Devices

Certificated Products		LPCB Ref. No.
DB3	Conventional Sounder Type B Notes: 1. Meets the requirements of EN54-3: 2001 for the following tones: Tone 3 - Sweeping 800 / 1000Hz at 1Hz Tone 7 - Slow whoop 500-1200Hz in 3.5 seconds / 0.5secs gap Tone 8 - Sweep 1200-500Hz at 1Hz Tone 15 - 554Hz for 100ms / 440Hz for 400ms Tone 19 - Continuous at 660Hz Tone 20 - Alt 554 / 440Hz at 1Hz	1120a/01
DB3B 54W	Conventional Sounder Type B Note: 1. Meets the requirements of EN 54-3:2001 for the following tones: - Tone 3 Sweeping 800/1000Hz at 1Hz - Tone 7 Slow whoop 500-1200Hz in 3.5 seconds / 0.5 secs gap - Tone 8 Sweep 1200-500Hz at 1Hz - Tone 15 554Hz for 100ms / 440Hz for 400ms - Tone 19 Continuous at 660Hz - Tone 20 Alt 554 / 440Hz at 1Hz	1120a/02
DB3B 54D	Conventional Sounder Type B (ATEX) Note: 1. Meets the requirements of EN 54-3:2001 for the following tones:	1120a/02

Certificated Products		LPCB Ref. No.
	- Tone 3 Sweeping 800/1000Hz at 1Hz - Tone 7 Slow whoop 500-1200Hz in 3.5 seconds / 0.5 secs gap - Tone 8 Sweep 1200-500Hz at 1Hz - Tone 15 554Hz for 100ms / 440Hz for 400ms - Tone 19 Continuous at 660Hz - Tone 20 Alt 554 / 440Hz at 1Hz	

A copy of the certificate, confirming the full scope of approval including notes relating to the superscript references in the above table, may be viewed online by clicking on the product name in the associated entry on www.RedBookLive.com

---

Elite Security Products (ESP)

Unit 7, Target Park, Shawbank Road, Redditch, Birmingham B98 8YN, United Kingdom
Tel: +44 (0)1527 515150
E-mail: info@espuk.com • Website: https://www.espuk.com/

Certificate No: 331h-(cl-1) to EN 54-3:2001 + A1: 2992 + A2: 2006

Certificated Products		LPCB Ref. No.
MAGDUOSR	MAGDUO Conventional Type A Sounder (Red) *Notes:* *1) Meets the requirements of EN 54-3 at the following tones: -* *Dual Tone 970Hz 0.25s, 800Hz 0.25s.*	331h/01
MAGDUOSW	MAGDUO Conventional Type A Sounder (White) *Notes:* *1) Meets the requirements of EN 54-3 at the following tones: -* *Dual Tone 970Hz 0.25s, 800Hz 0.25s.*	331h/01
MAGDUOSSLP	MAGDUO Conventional Type A Sounder Strobe *Notes:* *1) Meets the requirements of EN 54-3 at the following tones: -* *Dual Tone 970Hz 0.25s, 800Hz 0.25s* *Slow Whoop 500-1200Hz over 3s, 0.5s off* *Dual French 550Hz 0.1s, 440Hz 400ms.* *2) The strobe functionality is not included within the scope of this approval.*	331h/02
MAGDUOSS	MAGDUO Conventional Type A Sounder Strobe (domed) *Note:* *1) Meets the requirements of EN 54-3 at the following tones: -* *Dual Tone 970Hz 0.25s, 800Hz 0.25s* *Slow Whoop 500-1200Hz over 3s, 0.5s off* *Dual French 550Hz 0.1s, 440Hz 400ms* *2) The strobe functionality is not included within the scope of this approval.*	331h/03
MAGDUOSRIP55	MAGDUO Conventional Type B Sounder IP55 Rated *Note:* *1) Meets the requirements of EN 54-3 at the following tones: -* *Dual Tone 970Hz 0.25s, 800Hz 0.25s* *Slow Whoop 500-1200Hz over 3s, 0.5s off* *Dual French 550Hz 0.1s, 440Hz 400ms.*	331h/04
MAGDUOSRSQ	MAGDUO Conventional Type A Wall Sounder (Red) *Notes:* *1) Meets the requirements of EN 54-3 at the following tones: -* *Dual Tone 970Hz 0.25s, 800Hz 0.25s* *Slow Whoop 500-1200Hz over 3s, 0.5s off* *Dual French 550Hz 0.1s, 440Hz 400ms*	331h/05
MAGDUOSWSQ	MAGDUO Conventional Type A Wall Sounder (White) *Notes:* *1) Meets the requirements of EN 54-3 at the following tones: -* *Dual Tone 970Hz 0.25s, 800Hz 0.25s* *Slow Whoop 500-1200Hz over 3s, 0.5s off* *Dual French 550Hz 0.1s, 440Hz 400ms*	331h/05

A copy of the certificate, confirming the full scope of approval including notes relating to the superscript references in the above table, may be viewed online by clicking on the product name in the associated entry on www.RedBookLive.com

Emirates Fire Fighting Equipment Factory L.L.C. (FIREX)

P.O.Box 22436, Industrial Area 13, Sharjah, United Arab Emirates
Tel: +971 6 5340300 • Fax: +971 6 5340090
E-mail: firex@emirates.net.ae • Website: www.firexuae.com

Certificate No: 506e to EN 54-3:2014 + A1:2019

Certificated Products		LPCB Ref. No.
FX-0218	Conventional Fire Alarm Bell	506e/01

Eurotech Fire Systems Limited

19/20 Stratfield Park, Elettra Avenue, Waterlooville, Hampshire PO7 7XN, United Kingdom
Tel: +44 (0)203 141 0999 • Fax: +44 (0)239 225 2554
E-mail: MICHELLE.AGIUS@eurotechfire.com • Website: www.eurotechfire.com

Certificate No: 1213j to EN 54-3: 2001 + A1: 2002 + A2: 2006

Audible Warning Devices

Certificated Products		LPCB Ref. No.
200-103	Odyssey Type B Intelligent Open Area Sounder (Red) (200-307 enhanced deep isolating bases) *Note:* *1. Meets the requirements of EN 54-3:2001 at the following tones:* *Standard-840Hz,0.5s/558Hz,0.5s* *Dutch (slow whoop)- 500-1200Hz in 3.5s, 0.5s off* *German DIN-1200-500Hz over 1s*	1213j/01
200-104	Odyssey Type B Intelligent Open Area Sounder Beacon (Red) (200-307 enhanced deep isolating bases) *Notes:* *1. Meets the requirements of EN 54-3:2001 at the following tones:* *Standard-840Hz,0.5s/558Hz,0.5s* *Dutch (slow whoop)- 500-1200Hz in 3.5s, 0.5s off* *German DIN-1200-500Hz over 1s* *2. The Beacon function is not approved to EN 54-23*	1213j/02
100-2010V	EURV-ABS Intelligent Platform Sounder Base *Notes:* *1. Meets the requirements of EN 54-3 at the following tone settings:* *Tone 1 - Dual Tone 800Hz and 960Hz, 250ms-250ms* *Tone 2 - Continuous Tone, 1000Hz, Steady* *Tone 4 - Slow Whoop, 500-1200Hz, 3500ms Sweep, 500ms OFF* *Tone 5 - Sweep (DIN) Tone, 1200-500Hz, 1s sweep (1Hz)* *2. Cover plate (LID100-AL/W or AL/R)*	1213j/03
100-5011V	EURV-ABSB Intelligent Platform Sounder Beacon Base *Notes:* *1. Meets the requirements of EN 54-3 at the following tone settings:* *Tone 1 - Dual Tone 800Hz and 960Hz, 250ms-250ms* *Tone 2 - Continuous Tone, 1000Hz, Steady* *Tone 4 - Slow Whoop, 500-1200Hz, 3500ms Sweep, 500ms OFF* *Tone 5 - Sweep (DIN) Tone, 1200-500Hz, 1s sweep (1Hz)* *2. The beacon function is not included within the scope of this approval* *3. Cover plate (LID100-AL/W or AL/R)*	1213j/04
100-3801V	EURVC-SB Conventional Type A/B (indoor/Outdoor) Wall Sounder (Red Body) *Notes:* *1. Meets the requirements of EN 54-3 at the following tone settings:* *Tone 1 - Warble Tone 800Hz for 500ms, then 1000Hz for 500ms* *Tone 2 - Continuous Tone, 970Hz* *Tone 3 - Slow Whoop (Dutch), 500-1200Hz for 3500ms, then off for 500ms* *Tone 4 - German DIN Tone, 1200-500Hz swept every 1000ms (1Hz)*	1213j/05
100-3801VW	EURVC-SB Conventional Type A/B (indoor/outdoor) Wall Sounder (White Body) *Notes:* *1. Meets the requirements of EN 54-3 at the following tone settings:*	1213j/05

Certificated Products		LPCB Ref. No.
	Tone 1 - Warble Tone 800Hz for 500ms, then 1000Hz for 500ms *Tone 2 Continuous Tone, 970Hz* *Tone 3 Slow Whoop (Dutch), 500-1200Hz for 3500ms, then off for 500ms* *Tone 4 German DIN Tone, 1200-500Hz swept every 1000ms (1Hz)*	

Bases:
200-307 Enhanced deep isolating base (Red)
Ancillaries
100-2050V Addressable module with short circuit isolator

A copy of the certificate, confirming the full scope of approval including notes relating to the superscript references in the above table, may be viewed online by clicking on the product name in the associated entry on www.RedBookLive.com

Certificate No: 1213ad to EN 54-3:2001+A1:2002+A2:2006, EN 54-17:2005, EN 54-18:2005, EN 54-23:2010

Certificated Products		LPCB Ref. No.
100-3800V + 100-2050V	EURV-MOD Intelligent Altair Addressable Type A/B (indoor/outdoor) Wall Sounder and Visual Alarm Device with Short Circuit Isolator (Red Body) Notes: 1. Meets the requirements of EN 54-3 at the following tone settings: Tone 1 - Warble Tone 800Hz for 500ms, then 1000Hz for 500ms Tone 2 Continuous Tone, 970Hz Tone 3 Slow Whoop (Dutch), 500-1200Hz for 3500ms, then off for 500ms Tone 4 German DIN Tone, 1200-500Hz swept every 1000ms (1Hz) 2. The wall mounted VAD meets the requirements of EN 54-23 for the following: - Category W-2.5-7 - Flash rate 0.5Hz - Synchronization 3. Device is only addressable when used in conjunction with 100-2050V	1213ad/01
100-3800VW + 100-2050V	EURV-MOD Intelligent Altair Addressable Type A/B (indoor/outdoor) Wall Sounder and Visual Alarm Device with Short Circuit Isolator (White Body) Notes: 1. Meets the requirements of EN 54-3 at the following tone settings: Tone 1 - Warble Tone 800Hz for 500ms, then 1000Hz for 500ms Tone 2 Continuous Tone, 970Hz Tone 3 Slow Whoop (Dutch), 500-1200Hz for 3500ms, then off for 500ms Tone 4 German DIN Tone, 1200-500Hz swept every 1000ms (1Hz) 2. The wall mounted VAD meets the requirements of EN 54-23 for the following: - Category W-2.5-7 - Flash rate 0.5Hz - Synchronization 3. Device is only addressable when used in conjunction with 100-2050V	1213ad/01

Ancillaries

100-2050V Addressable module with short circuit isolator

A copy of the certificate, confirming the full scope of approval including notes relating to the superscript references in the above table, may be viewed online by clicking on the product name in the associated entry on www.RedBookLive.com

Certificate No: 1213ab to EN 54-3:2001 + A1:2002 + A2:2006 EN 54-23:2010

Visual & Audible Warning Devices

Certificated Products		LPCB Ref. No.
100-3800V	EURVC-SB Conventional Type A/B (indoor/outdoor) Wall Sounder and Visual Alarm Device (Red Body) *Notes:* *1. Meets the requirements of EN 54-3 at the following tone settings:* *Tone 1 - Warble Tone 800Hz for 500ms, then 1000Hz for 500ms* *Tone 2 - Continuous Tone, 970Hz* *Tone 3 - Slow Whoop (Dutch), 500-1200Hz for 3500ms, then off for 500ms* *Tone 4 - German DIN Tone, 1200-500Hz swept every 1000ms (1Hz)* *2. The wall mounted VAD meets the requirements of EN 54-23 for the following:* *- Category W-2.5-7* *- Flash rate - 0.5Hz* *- Synchronization*	1213ab/01

Certificated Products		LPCB Ref. No.
100-3800VW	EURVC-SB Conventional Type A/B (indoor/outdoor) Wall Sounder and Visual Alarm Device (White Body) *Notes:* *1. Meets the requirements of EN 54-3 at the following tone settings:* *Tone 1 - Warble Tone 800Hz for 500ms, then 1000Hz for 500ms* *Tone 2 Continuous Tone, 970Hz* *Tone 3 Slow Whoop (Dutch), 500-1200Hz for 3500ms, then off for 500ms* *Tone 4 German DIN Tone, 1200-500Hz swept every 1000ms (1Hz)* *2. The wall mounted VAD meets the requirements of EN 54-23 for the following:* *- Category W-2.5-7* *- Flash rate - 0.5Hz* *- Synchronization*	1213ab/01

Ancillaries
100-2050V Addressable module with short circuit isolator

A copy of the certificate, confirming the full scope of approval including notes relating to the superscript references in the above table, may be viewed online by clicking on the product name in the associated entry on www.RedBookLive.com

Certificate No: 1213ac to EN 54-3:2001+A1:2002+A2:2006

Certificated Products		LPCB Ref. No.
100-3801V + 100-2050V	EURV-MOD Intelligent Altair Addressable Type A/B (indoor/outdoor) Wall Sounder with Short Circuit Isolator (Red Body) Notes: 1. Meets the requirements of EN 54-3 at the following tone settings: Tone 1 - Warble Tone 800Hz for 500ms, then 1000Hz for 500ms Tone 2 Continuous Tone, 970Hz Tone 3 Slow Whoop (Dutch), 500-1200Hz for 3500ms, then off for 500ms Tone 4 German DIN Tone, 1200-500Hz swept every 1000ms (1Hz) 2.Device is only addressable when used in conjunction with 100-2050V	1213ac/01
100-3801VW + 100-2050V	EURV-MOD Intelligent Altair Addressable Type A/B (indoor/outdoor) Wall Sounder with Short Circuit Isolator (White Body) Notes: 1. Meets the requirements of EN 54-3 at the following tone settings: Tone 1 - Warble Tone 800Hz for 500ms, then 1000Hz for 500ms Tone 2 Continuous Tone, 970Hz Tone 3 Slow Whoop (Dutch), 500-1200Hz for 3500ms, then off for 500ms Tone 4 German DIN Tone, 1200-500Hz swept every 1000ms (1Hz) 2.Device is only addressable when used in conjunction with 100-2050V	1213ac/01

Ancillaries

100-2050V Addressable module with short circuit isolator

A copy of the certificate, confirming the full scope of approval including notes relating to the superscript references in the above table, may be viewed online by clicking on the product name in the associated entry on www.RedBookLive.com

---

Fike Safety Technology Ltd

Unit 31, Springvale Industrial Estate, Cwmbran, Gwent NP44 5BD, United Kingdom
Tel: +44 (0)1633 865558 • Fax: +44 (0)1633 866656
E-mail: fstinfo@fike.com • Website: www.fikesafetytechnology.co.uk

Certificate No: 331h to EN 54-3: 2001 + A1: 2002 + A2: 2006

Certificated Products		LPCB Ref. No.
302-000x	Twinflex Hatari Conventional Type A sounder *Notes:* *1. Key:* *x = 1 Colour Red* *x = 2 Colour White.*	331h/01

Certificated Products		LPCB Ref. No.
	2. Meets the requirements of EN 54-3 at the following tones: - *Dual Tone 970Hz 0.25s, 800Hz 0.25s.*	
302-0012	Twinflex Flashpoint Conventional Type A sounder/strobe *Notes:* *1. Meets the requirements of EN 54-3 at the following tones: -* *Dual Tone 970Hz 0.25s, 800Hz 0.25s* *Slow Whoop 500-1200Hz over 3s, 0.5s off* *Dual French 550Hz 0.1s, 440Hz 400ms.* *2. The strobe functionality is not included within the scope of this approval.*	331h/02
302-0022	Twinflex Flashpoint Conventional Type A sounder/strobe (domed) *Notes:* *1. Meets the requirements of EN 54-3 at the following tones: -* *Dual Tone 970Hz 0.25s, 800Hz 0.25s* *Slow Whoop 500-1200Hz over 3s, 0.5s off* *Dual French 550Hz 0.1s, 440Hz 400ms.* *2. The strobe functionality is not included within the scope of this approval.*	331h/03
302-0004	Twinflex Hipoint Conventional Type B sounder *Note:* *1. Meets the requirements of EN 54-3 at the following tones: -* *Dual Tone 970Hz 0.25s, 800Hz 0.25s* *Slow Whoop 500-1200Hz over 3s, 0.5s off* *Dual French 550Hz 0.1s, 440Hz 400ms.*	331h/04
313-002x	Twinflex Soundpoint Conventional Type A sounder *Notes:* *1. Key:* *x = 1 Colour Red* *x = 2 Colour White.* *2. Meets the requirements of EN 54-3 at the following tones: -* *Dual Tone 970Hz 0.25s, 800Hz 0.25s* *Slow Whoop 500-1200Hz over 3s, 0.5s off* *Dual French 550Hz 0.1s, 440Hz 400ms*	331h/05

A copy of the certificate, confirming the full scope of approval including notes relating to the superscript references in the above table, may be viewed online by clicking on the product name in the associated entry on www.RedBookLive.com

Certificate No: 331j to EN 54-3:2000 + A1:2002 + A2:2006 & EN 54-17:2005

Certificated Products		LPCB Ref. No.
326-0001	Sita Analogue Addressable Type A sounder with low profile base, and short circuit isolator. *Note:* *1) Meets the requirements of EN 54-3 at the following tones: -* *Continuous 970Hz* *Pulsed 970Hz 1s on, 1s off* *Dual Tone 970Hz 0.25s, 800Hz 0.25s* *Sweep Up 800-970Hz over 1s* *Slow Whoop 500-1200Hz over 3s, 0.5s off* *Sweep Down 1200-500Hz over 1s* *Dual French 550Hz 0.1s, 440Hz 400ms.*	331j/01
326-0003	Sita Analogue Addressable Type A sounder with deep base, and short circuit isolator. *Note:* *1) Meets the requirements of EN 54-3 at the following tones: -* *Continuous 970Hz* *Pulsed 970Hz 1s on, 1s off* *Dual Tone 970Hz 0.25s, 800Hz 0.25s* *Sweep Up 800-970Hz over 1s* *Slow Whoop 500-1200Hz over 3s, 0.5s off* *Sweep Down 1200-500Hz over 1s* *Dual French 550Hz 0.1s, 440Hz 400ms.*	331j/02
326-0021-R	Sita Analogue Addressable Type A sounder/strobe with low profile base, and short circuit isolator. *Note:* *1) Meets the requirements of EN 54-3 at the following tones: -* *Continuous 970Hz* *Pulsed 970Hz 1s on, 1s off* *Dual Tone 970Hz 0.25s, 800Hz 0.25s* *Sweep Up 800-970Hz over 1s* *Slow Whoop 500-1200Hz over 3s, 0.5s off* *Sweep Down 1200-500Hz over 1s*	331j/03

Certificated Products		LPCB Ref. No.
	Dual French 550Hz 0.1s, 440Hz 400ms.	
326-0023-R	Sita Analogue Addressable Type A sounder/strobe with deep base, and short circuit isolator. *Note:* *1) Meets the requirements of EN 54-3 at the following tones: -* *Continuous 970Hz* *Pulsed 970Hz 1s on, 1s off* *Dual Tone 970Hz 0.25s, 800Hz 0.25s* *Sweep Up 800-970Hz over 1s* *Slow Whoop 500-1200Hz over 3s, 0.5s off* *Sweep Down 1200-500Hz over 1s* *Dual French 550Hz 0.1s, 440Hz 400ms.*	331j/04
323-0001	Sita Hipoint Analogue Addressable Type B sounder with short circuit isolator. *Note:* *1) Meets the requirements of EN 54-3 at the following tones: -* *Continuous 970Hz* *Pulsed 970Hz 1s on, 1s off* *Dual Tone 970Hz 0.25s, 800Hz 0.25s* *Sweep Up 800-970Hz over 1s* *Slow Whoop 500-1200Hz over 3s, 0.5s off* *Sweep Down 1200-500Hz over 1s* *Dual French 550Hz 0.1s, 440Hz 400ms.*	331j/05
313-000x	Sita Soundpoint Analogue Addressable Type A sounder with short circuit isolator. *Notes:* *1) Key:* *x = 1 Colour Red* *x = 2 Colour White.* *1) Meets the requirements of EN 54-3 at the following tones: -* *Continuous 970Hz* *Pulsed 970Hz 1s on, 1s off* *Dual Tone 970Hz 0.25s, 800Hz 0.25s* *Sweep Up 800-970Hz over 1s* *Slow Whoop 500-1200Hz over 3s, 0.5s off* *Sweep Down 1200-500Hz over 1s* *Dual French 550Hz 0.1s, 440Hz 400ms.*	331j/06

A copy of the certificate, confirming the full scope of approval including notes relating to the superscript references in the above table, may be viewed online by clicking on the product name in the associated entry on www.RedBookLive.com

Finder Yangin Güvenlik Elektronik Sistemler A.Ş

Kepez Mh, 5071 Sk. No: 10, Kepez, Antalya 07090, Turkey
Tel: +90 242 221 40 07 • Fax: +90 242 259 28 88
E-mail: info@finder.com.tr • Website: www.finder.com.tr

Certificate No: 928z-(cl-6) to EN 54-3: 2001 + A1: 2002 + A2: 2006, EN 54-17: 2005, EN 54-18: 2005 & EN 54-23:2010

Certificated Products		LPCB Ref. No.
FF ESF100+FF LX200	Altair Addressable Type A/B (Indoor/Outdoor) Wall Sounder and Visual Alarm Device with Short Circuit Isolator (Red Body) *Notes:* *1. Meets the requirements of EN 54-3 at the following tone settings:* *Tone 1 - Warble Tone 800Hz for 500ms, then 1000Hz for 500ms* *Tone 2 - Continuous Tone, 970Hz* *Tone 3 - Slow Whoop (Dutch), 500-1200Hz for 3500ms, then off for 500ms* *Tone 4 - German DIN Tone, 1200-500Hz swept every 1000ms (1Hz)* *2. The wall mounted VAD meets the requirements of EN 54-23 for the following:* *- Category W-2.5-7* *- Flash rate - 0.5Hz* *- Synchronization* *3. Device is only addressable when used in conjunction with FF LX200*	928z/01

Base with 86H50 Embedded Box

Ancillaries
FF LX200 Addressable module with Short Circuit Isolator

A copy of the certificate, confirming the full scope of approval including notes relating to the superscript references in the above table, may be viewed online by clicking on the product name in the associated entry on www.RedBookLive.com

Certificate No: 1450a-(cl-1) to EN 54-3:2014 + A1:2019

Certificated Products		LPCB Ref. No.
FF LSB550	Intelligent Addressable Sounder Strobe Type A (Base with 86H50 Embedded Box) Notes: Meets the requirements of EN 54-3 for the following tones 1) One Default Tone 3.5s ~ 4.5s The Beacon function is not approved to EN 54-23	1450a/01

Base
Base with 86H50 Embedded Box

A copy of the certificate, confirming the full scope of approval including notes relating to the superscript references in the above table, may be viewed online by clicking on the product name in the associated entry on www.RedBookLive.com

Fire Fighter CO Security and Safety Equipment Trading LLC

Al Qusais Industry Area 4, P O Box 84926, Dubai, United Arab Emirates
Tel: 00971-4-2554494
E-mail: mutasem@firefighterco1.ae

Certificate No: 1174c-(cl-6) to EN 54-3:2014 + A1:2019

Audible Warning Devices

Certificated Products		LPCB Ref. No.
FST-6737	Addressable Type A Indoor Digital Sounder Beacon (FST-6619 Base) (branded as FST) *Notes:* *1. Meets the requirements of EN 54-3 and approved at the following tones:* *1) Tone 00, 2400Hz - 2900Hz @ 3Hz* *2) Tone 01, 2400Hz - 2900Hz @ 9Hz* *3) Tone 08, 500Hz - 1200Hz x 3, 3.5s on / 0.5s off* *4) Tone 14, 1500Hz - 2700Hz @ 3Hz* *2. The beacon function is not included within the scope of this approval*	1174c/02

Bases
FST-6619 Mounting Base
A copy of the certificate, confirming the full scope of approval including notes relating to the superscript references in the above table, may be viewed online by clicking on the product name in the associated entry on www.RedBookLive.com

Fireguard Global Ltd.

Unit 11 Chancel Industrial Estate, Newhall Street, Willenhall, West Midlands WV13 1NX, United Kingdom
Tel: +44 (0)8450 751042 • Fax: +44 (0)845 2991039
E-mail: info@fireguard-uk.com • Website: www.fireguard-uk.com

Certificate No: 506e-(cl-1) to EN 54-3:2014 + A1:2019

Certificated Products		LPCB Ref. No.
FG-0218	Conventional Fire Alarm Bell	506e/01
FG-03127S	Conventional Type B Electronic Sounder (FG-03127MB) Note: Meets the requirements of EN 54-3 at the following tones: 1 - Alternating Tones 800/970Hz at 2Hz	506e/02

Certificated Products		LPCB Ref. No.
	2 - Sweeping 800/970Hz at 7Hz	
FG-03127BS	Conventional Type B Electronic Sounder Beacon (FG-03127MB) Notes: 1. Meets the requirements of EN54-3 at the following tones: 1-Alternating Tones 800/970Hz at 2Hz 2-Sweeping 800/970Hz at 7Hz 2. The beacon functionality is not included within the scope of approval.	506e/03

Base:
FG-03127MB
A copy of the certificate, confirming the full scope of approval including notes relating to the superscript references in the above table, may be viewed online by clicking on the product name in the associated entry on www.RedBookLive.com

---

FIREX Protection System Technology Ltd

28-38 Desborough St, High Wycombe, Buckinghamshire, United Kingdom
Tel: 00971 653 40300 • Fax: 00971 653 40090
E-mail: QC@firexuae.com • Website: www.firexuae.com

Certificate No: 548e-(cl-3) to EN 54-3: 22014 + A1:2019

Audible Warning Devices

Certificated Products		LPCB Ref. No.
FX9403	Conventional sounder strobe (Shallow Base and FX94DB Base) *Notes:* *1. Meets the requirements of EN 54-3 at the following tones:* *Tone 01 2800Hz 0.34s off/0.4s on Tone 02 2400Hz -2900Hz @3Hz* *3. The strobe function is not in the scope of this approval.*	548e/01
FX9403I	Intelligent sounder strobe (Shallow Base and FX94DB Base) *Notes:* *1. Meets the requirements of EN 54-3 at the following tones:* *Tone 14 2400Hz - 2900Hz @ 3Hz* *Tone 16 500HZ - 1200Hz, 3.75s on / 0.25s off* *Pre Alarm 800Hz, 1s on / 1s off* *2. Approved in both normal and power saving mode* *3. The visual alarm function is not in the scope of this approval* *4. Approved with single address and dual address (pre-alarm and main alarm).*	548e/02
FX9404	Conventional Type A Sounder (Shallow base, FX94DB Deep Base) *Note:1. Meets the requirements of EN 54-3 at the following tones: Tone 01 2800Hz 0.34s off/0.4s on Tone 02 2400Hz - 2900Hz @ 3Hz*	548e/04
FX9404I	Intelligent Type A Sounder (Shallow base, FX94DB Deep base) *Note:1. Meets the requirements of EN 54-3 at the following tones:* *Tone 14 2400Hz - 2900Hz @ 3Hz* *Tone 16 500Hz - 1200Hz, 3.75s / 0.25s off* *Pre-Alarm 800Hz 1s off / 1s on*	548e/05
FXI9405E	Analogue Addressable Type A Sounder Base (FX-01 Base) *Notes:* *1. Meets the requirements of EN 54-3 at the following tones:* *Tone 14 2400Hz-2900Hz @ 3Hz* *Tone 16 500Hz-1200Hz, 3.75s on / 0.25s off* *2. Approved with FXI9103E heat detector and FXI9102E smoke detector*	548e/06
FXI9406E	Analogue Addressable Type A Flashing Sounder Beacon Base (FX-01 Base) *Notes:* *1. Meets the requirements of EN 54-3 at the following tones:* *Tone 14 2400Hz-2900Hz @ 3Hz* *Tone 16 500Hz-1200Hz, 3.75s on / 0.25s off* *2. Approved with FXI9103E heat detector and FXI9102E smoke detector* *3. The visual alarm function is not in the scope of this approval*	548e/07

Bases:
Shallow Base
FX94DB Deep Base
FX-01 Standard Base

A copy of the certificate, confirming the full scope of approval including notes relating to the superscript references in the above table, may be viewed online by clicking on the product name in the associated entry on www.RedBookLive.com

Frontier Safety Ltd UK

85 Great Portland Street, London, England W1W 7, United Kingdom
Tel: 00447708000050
E-mail: mikefrontiersafety@gmail.com • Website: www.frontierpumps.com

Certificate No: 1426a-(cl-6) to EN 54-3 :2014 + A1: 2019,, EN 54-23:2010

Certificated Products		LPCB Ref. No.
FRN 91C	Conventional Sounder Beacon (DZ-9091K Base) *Notes:* *1) Meets the requirements of EN 54-23 at the following:* *- Category C-3-8 + W-2.4-6* *- Flash rate 0.5Hz* *- One Mode (Light output synchronization)* *- Flash Colour White* *- For wall and ceiling mounting* *2) Meets the requirements of EN 54-3 at the following tone:* *- Tone 1: 667Hz - 2000Hz@0.22Hz*	1426a/01
FRN 91	Addressable Sounder Beacon (DZ-9091 Base) *Notes:* *1)Meets the requirement of EN 54-23 at the following:* *- Category C-3-8 + W-2.4-6* *- Flash Rate 0.5Hz* *- One Mode (Light output synchronization)* *- Flash Colour White* *- For wall and ceiling mounting* *2) Meets the requirements of EN 54-3 at the following tone:* *- Tone 1: 667Hz - 2000Hz@0.22Hz*	1426a/02

Base

DZ-9091K
DZ-9091

A copy of the certificate, confirming the full scope of approval including notes relating to the superscript references in the above table, may be viewed online by clicking on the product name in the associated entry on www.RedBookLive.com

Certificate No: 1426h-(cl-2) to EN 54-3 :2014 + A1: 2019,

Certificated Products		LPCB Ref. No.
FRN 92	Red Loop Sounder with Visual Indicator (DZ-9091K Base) *Notes:* *Meets the requirements of EN 54-3 at the following tone:* *Sweep tone 667Hz-2kHz @0.21Hz*	1426h/01

A copy of the certificate, confirming the full scope of approval including notes relating to the superscript references in the above table, may be viewed online by clicking on the product name in the associated entry on www.RedBookLive.com

Certificate No: 1426j-(cl-2) to EN 54-3: 2014 + A1: 2019

Certificated Products		LPCB Ref. No.
FRN 97	Addressable Type A (Indoor) Sounder Beacon Base (Standard Mounting Bracket) *Notes:* *Meets the requirements of EN 54-3: 2014 at the following tones* *Sweep Tone 667Hz - 2KHz@0.21Hz*	1426j/01

Accessories

Standard Mounting Bracket

A copy of the certificate, confirming the full scope of approval including notes relating to the superscript references in the above table, may be viewed online by clicking on the product name in the associated entry on www.RedBookLive.com

Gent By Honeywell (Novar Systems Ltd)

Building 5, Carlton Park, King Edward Avenue, Narborough, Leicester LE19 0AL, United Kingdom
Tel: +44 (0)116 246 2000 • Fax: +44 (0)116 246 2300
E-mail: gent_enquiry@gent.co.uk • Website: www.gent.co.uk

Certificate No: 042bs to EN 54-3:2014 + A1:2019

Certificated Products		**LPCB Ref. No.**
S3EP-V-VAD-HPW-R	S-Cubed Type A White High Performance VAD Red Body Voice Sounder with Short Circuit Isolator (Back Box) *Notes:* *1. Meets the requirements of EN 54-3 at the following sounder tone and speech settings:* *1. Intermittent tone 970Hz @ 1Hz (Speech Message 3)* *2. Alternating tone 730/970Hz @ 2Hz (Speech Message 5)* *3. Continuous tone 970Hz* *2. Meets the requirements of EN 54-23 at the following power settings:* *- Low white output* *- Medium white output* *- High white output* *3. The wall mounted Visual Alarm Device (VAD) meets the requirements of EN 54-23 for the following light pattern details:* *- High Performance setting - (Category W: W-5-12.5)* *- Medium Performance setting - (Category W: W-4.5-11.3)* *- Low Performance setting - (Category W: W-3-8.5)* *- Synchronization* *- Flash rate 2 seconds (0.5Hz)*	042bs/07
S3EP-V-VAD-HPR-R	S-Cubed Type A Red High Performance VAD Red Body Voice Sounder with Short Circuit Isolator (Back Box) *Notes:* *1. Meets the requirements of EN 54-3 at the following sounder tone and speech settings:* *1. Intermittent tone 970Hz @ 1Hz (Speech Message 3)* *2. Alternating tone 730/970Hz @ 2Hz (Speech Message 5)* *3. Continuous tone 970Hz* *2. Meets the requirements of EN 54-23 at the following power settings:* *- Low red output* *- Medium red output* *- High red output* *3. The wall mounted Visual Alarm Device (VAD) meets the requirements of EN 54-23 for the following light pattern details:* *- High Performance setting - (Category W: W-6.7-14)* *- Medium Performance setting - (Category W: W-6.5-12.5)* *- Low Performance setting - (Category W: W-5-9.5)* *- Synchronization* *- Flash rate 2 seconds (0.5Hz)*	042bs/10
S3-S-VAD-HPR-R	S-Cubed Type A Red High Performance VAD Red Body Sounder with Short Circuit Isolator (S3-DB-R and S3-SB-R Bases) *Notes:* *1. Meets the requirements of EN 54-3 at the following sounder tone settings:* *1. Intermittent tone 970Hz @ 1Hz* *2. Alternating tone 730/970Hz @ 2Hz* *3. Continuous tone 970Hz* *2. Meets the requirements of EN 54-23 at the following power settings:* *- Low red output* *- Medium red output* *- High red output* *3. The wall mounted Visual Alarm Device (VAD) meets the requirements of EN 54-23 for the following light pattern details:* *- High Performance setting - (Category W: W-6.7-14)* *- Medium Performance setting - (Category W: W-6.5-12.5)* *- Low Performance setting - (Category W: W-5-9.5)* *- Synchronization* *- Flash rate 2 seconds (0.5Hz)*	042bs/01
S3-S-VAD-HPR-W	S-Cubed Type A Red High Performance VAD White Body Sounder with Short Circuit	042bs/02

Certificated Products		LPCB Ref. No.
	Isolator (S3-DB-W and S3-SB-W Bases) *Notes:* *1. Meets the requirements of EN 54-3 at the following sounder tone settings:* *1. Intermittent tone 970Hz @ 1Hz* *2. Alternating tone 730/970Hz @ 2Hz* *3. Continuous tone 970Hz* *2. Meets the requirements of EN 54-23 at the following power settings:* *- Low red output* *- Medium red output* *- High red output* *3. The wall mounted Visual Alarm Device (VAD) meets the requirements of EN 54-23 for the following light pattern details:* *- High Performance setting - (Category W: W-6.7-14)* *- Medium Performance setting - (Category W: W-6.5-12.5)* *- Low Performance setting - (Category W: W-5-9.5)* *- Synchronization* *- Flash rate 2 seconds (0.5Hz)*	
S3-S-VAD-HPW-R	S-Cubed Type A White High Performance VAD Red Body Sounder with Short Circuit Isolator (S3-DB-R and S3-SB-R Bases) *Notes:* *1. Meets the requirements of EN 54-3 at the following sounder tone settings:* *1. Intermittent tone 970Hz @ 1Hz* *2. Alternating tone 730/970Hz @ 2Hz* *3. Continuous tone 970Hz* *2. Meets the requirements of EN 54-23 at the following power settings:* *- Low white output* *- Medium white output* *- High white output* *3. The wall mounted Visual Alarm Device (VAD) meets the requirements of EN 54-23 for the following light pattern details:* *- High Performance setting - (Category W: W-5-12.5)* *- Medium Performance setting - (Category W: W-4.5-11.3)* *- Low Performance setting - (Category W: W-3-8.5)* *- Synchronization* *- Flash rate 2 seconds (0.5Hz)*	042bs/03
S3-V-VAD-HPW-R	S-Cubed Type A White High Performance VAD Red Body Voice Sounder with Short Circuit Isolator (S3-DB-R and S3-SB-R Bases) *Notes:* *1. Meets the requirements of EN 54-3 at the following sounder tone and speech settings:* *1. Intermittent tone 970Hz @ 1Hz (Speech Message 3)* *2. Alternating tone 730/970Hz @ 2Hz (Speech Message 5)* *3. Continuous tone 970Hz* *2. Meets the requirements of EN 54-23 at the following power settings:* *- Low white output* *- Medium white output* *- High white output* *3. The wall mounted Visual Alarm Device (VAD) meets the requirements of EN 54-23 for the following light pattern details:* *- High Performance setting - (Category W: W-5-12.5)* *- Medium Performance setting - (Category W: W-4.5-11.3)* *- Low Performance setting - (Category W: W-3-8.5)* *- Synchronization* *- Flash rate 2 seconds (0.5Hz)*	042bs/04
S3-V-VAD-HPR-R	S-Cubed Type A Red High Performance VAD Red Body Voice Sounder with Short Circuit Isolator (S3-DB-R and S3-SB-R Bases) *Notes:* *1. Meets the requirements of EN 54-3 at the following sounder tone and speech settings:* *1. Intermittent tone 970Hz @ 1Hz (Speech Message 3)* *2. Alternating tone 730/970Hz @ 2Hz (Speech Message 5)* *3. Continuous tone 970Hz* *2. Meets the requirements of EN 54-23 at the following power settings:* *- Low red output* *- Medium red output* *- High red output* *3. The wall mounted Visual Alarm Device (VAD) meets the requirements of EN 54-23 for the following light pattern details:* *- High Performance setting - (Category W: W-6.7-14)* *- Medium Performance setting - (Category W: W-6.5-12.5)* *- Low Performance setting - (Category W: W-5-9.5)* *- Synchronization*	042bs/05

Certificated Products		LPCB Ref. No.
	- *Flash rate 2 seconds (0.5Hz)*	
S3-S-VAD-HPW-W	S-Cubed Type A White High Performance VAD White Body Sounder with Short Circuit Isolator (S3-DB-W and S3-SB-W Bases) *Notes:* *1. Meets the requirements of EN 54-3 at the following sounder tone settings:* *1. Intermittent tone 970Hz @ 1Hz* *2. Alternating tone 730/970Hz @ 2Hz* *3. Continuous tone 970Hz* *2. Meets the requirements of EN 54-23 at the following power settings:* *- Low white output* *- Medium white output* *- High white output* *3. The wall mounted Visual Alarm Device (VAD) meets the requirements of EN 54-23 for the following light pattern details:* *- High Performance setting - (Category W: W-5-12.5)* *- Medium Performance setting - (Category W: W-4.5-11.3)* *- Low Performance setting - (Category W: W-3-8.5)* *- Synchronization* *- Flash rate 2 seconds (0.5Hz)*	042bs/06
S3-S-VAD-LPR-R	S-Cubed Type A Red Standard Performance VAD Red Body Sounder with Short Circuit Isolator (S3-DB-R and S3-SB-R Bases) *Notes:* *1. Meets the requirements of EN 54-3 at the following sounder tone settings:* *1. Intermittent tone 970Hz @ 1Hz* *2. Alternating tone 730/970Hz @ 2Hz* *3. Continuous tone 970Hz* *2. The wall mounted Visual Alarm Device (VAD) meets the requirements of EN 54-23 for the following light pattern details:* *- Low Performance setting - (Category W: W-3-8.5)* *- Synchronization* *- Flash rate 2 seconds (0.5Hz)*	042bs/11
S3-S-VAD-LPW-R	S-Cubed Type A White Standard Performance VAD Red Body Sounder with Short Circuit Isolator (S3-DB-R and S3-SB-R Bases) *Notes:* *1. Meets the requirements of EN 54-3 at the following sounder tone settings:* *1. Intermittent tone 970Hz @ 1Hz* *2. Alternating tone 730/970Hz @ 2Hz* *3. Continuous tone 970Hz* *2. The wall mounted Visual Alarm Device (VAD) meets the requirements of EN 54-23 for the following light pattern details:* *- Low Performance setting - (Category W: W-3-8.5)* *- Synchronization* *- Flash rate 2 seconds (0.5Hz)*	042bs/12

Bases:
Shallow Base
Deep Base
Black Box
Note - All products may be used with either base
S4-700 Standard Base
S4 FLUSH Semi-flush fixing kit
S4-700-34K Fusion Adaptor base

A copy of the certificate, confirming the full scope of approval including notes relating to the superscript references in the above table, may be viewed online by clicking on the product name in the associated entry on www.RedBookLive.com

Certificate No: 042cf to EN 54-23:2010, EN 54-17:2005 & EN 54-18:2005

Visual Warning Devices

Certificated Products		LPCB Ref. No.
S4M-VAD-LPR	S4 Low Power Type A Red VAD (S4-700, S4-700-34K and S4 FLUSH) Notes: 1. The Ceiling mounted VAD meets the requirements of EN 54-23 for the following: - Category rating C-3-10 - Synchronization - Flash rate 0.5Hz - Red LED - Clear lens	042cf/01

Products Extras
S4-700 Standard Base
S4 FLUSH Semi-flush fixing kit
S4-700-34K Fusion Adaptor base

A copy of the certificate, confirming the full scope of approval including notes relating to the superscript references in the above table, may be viewed online by clicking on the product name in the associated entry on www.RedBookLive.com

Certificate No: 042ch/01 to EN 54-3:2014 + A1: 2019, EN 54-23:2010, EN 54-17:2005 & EN 54-18:2005

Visual & Audible Warning Devices

Certificated Products		**LPCB Ref. No.**
S4M-V-VAD-LPR	S4 Voice Sounder Low Power Type A Red VAD (S4-700, S4-700-34K and S4 FLUSH) Notes: 1. The requirements of EN 54-3 for the following tones: Mode A - High - Continuous at 933Hz Mode B - Alternate - High 933Hz for 0.25 secs / Low 700 Hz for 0.25 secs Message 1 Bell tone Message 2 *Attention please this an emergency please leave the building by nearest available exit* (female voice) Message 3 # *An incident has been reported in this building please await further instructions* (female voice) Message 4 *This is a test message no action is required* (female voice) Message 5 # *This is a fire alarm please leave the building immediately by the nearest available exit* (male voice) # Approved to EN 54- Annex C. 2. The Ceiling mounted VAD meets the requirements of EN 54-23:2010 for the following: - Category rating C-3-10 - Synchronization - Flash rate 0.5Hz - Red LED - Clear lens	042ch/01

Products Extras
S4-700 Standard Base
S4 FLUSH Semi-flush fixing kit
S4-700-34K Fusion Adaptor base

A copy of the certificate, confirming the full scope of approval including notes relating to the superscript references in the above table, may be viewed online by clicking on the product name in the associated entry on www.RedBookLive.com

Certificate No: 042cg to EN 54-3:2014 + A1:2019, EN 54-17:2005 & EN 54-18:2005

Audible Warning Devices

Certificated Products		**LPCB Ref. No.**
S4M-S	S4 Type A Sounder (S4-700, S4-700-34K and S4 FLUSH) Notes: 1. The requirements of EN 54-3 for the following tones: Mode A - High - Continuous at 933Hz Mode B - Alternate - High 933Hz for 0.25 secs / Low 700 Hz for 0.25 secs Message 1 Bell tone Message 2 *Attention please this an emergency please leave the building by nearest available exit* (female voice) Message 3 # *An incident has been reported in this building please await further instructions* (female voice) Message 4 *This is a test message no action is required* (female voice) Message 5 # *This is a fire alarm please leave the building immediately by the nearest available exit* (male voice) # Approved to EN 54- Annex C.	042cg/01

Bases:
S4-700 Standard Base
S4 FLUSH Semi-flush fixing kit
S4-700-34K Fusion Adaptor base

A copy of the certificate, confirming the full scope of approval including notes relating to the superscript references in the above table, may be viewed online by clicking on the product name in the associated entry on www.RedBookLive.com

Certificate No: 042bt to EN54-17:2005, EN54-23:2010

Visual Warning Devices

Certificated Products		**LPCB Ref. No.**
S3-VAD-HPR-R	S-Cubed Type A Red High Performance VAD Red Body with Short Circuit Isolator (S3-DB-R and S3-SB-R Bases) Notes: 1. Meets the requirements of EN 54-23 at the following power settings: - Low red output - Medium red output - High red output 2. The wall mounted Visual Alarm Device (VAD) meets the requirements of EN 54-23 for the following light pattern details: - High Performance setting - (Category W: W-6.7-14) - Medium Performance setting - (Category W: W-6.5-12.5) - Low Performance setting - (Category W: W-5-9.5) - Synchronization - Flash rate 2 seconds (0.5Hz)	042bt/01
S3-VAD-HPW-R	S-Cubed Type A White High Performance VAD Red Body with Short Circuit Isolator (S3-DB-R and S3-SB-R Bases) Notes: 1. Meets the requirements of EN 54-23 for the following modes: - Low white output - Medium white output - High white output 2. The wall mounted Visual Alarm Device (VAD) meets the requirements of EN 54-23 for the following light pattern details: - High Performance setting - (Category W: W-5-12.5) - Medium Performance setting - (Category W: W-4.5-11.3) - Low Performance setting - (Category W: W-3-8.5) - Synchronization - Flash rate 2 seconds (0.5Hz)	042bt/02
S3EP-VAD-HPW-R	S-Cubed Type A White High Performance VAD Red Body with Short Circuit Isolator (Back Box) Notes: 1. Meets the requirements of EN 54-23 at the following power settings: - Low white output - Medium white output - High white output 2. The wall mounted Visual Alarm Device (VAD) meets the requirements of EN 54-23 for the following light pattern details: - High Performance setting - (Category W: W-5-12.5) - Medium Performance setting - (Category W: W-4.5-11.3) - Low Performance setting - (Category W: W-3-8.5) - Synchronization - Flash rate 2 seconds (0.5Hz)	042bt/03
S3EP-VAD-HPR-R	S-Cubed Type A Red High Performance VAD Red Body with Short Circuit Isolator (Back Box) Notes: 1. Meets the requirements of EN 54-23 at the following power settings: - Low red output - Medium red output - High red output 2. The wall mounted Visual Alarm Device (VAD) meets the requirements of EN 54-23 for the following light pattern details: - High Performance setting - (Category W: W-6.7-14) - Medium Performance setting - (Category W: W-6.5-12.5) - Low Performance setting - (Category W: W-5-9.5) - Synchronization - Flash rate 2 seconds (0.5Hz)	042bt/04

Bases:
Shallow Base
Deep Base
Black Box

A copy of the certificate, confirming the full scope of approval including notes relating to the superscript references in the above table, may be viewed online by clicking on the product name in the associated entry on www.RedBookLive.com

Certificate No: 042bj to EN 54-3:2014 + A1:2019, EN 54-17: 2005

Visual Warning Devices

Certificated Products		LPCB Ref. No.
S3-S-R	S-Cubed Type A Red Body Sounder with Short Circuit Isolator (S3-DB-R and S3-SB-R Bases) Note: 1. Meets the requirements of EN 54-3 at the following sounder tone settings: 1. Intermittent tone 970Hz @ 1Hz 2. Alternating tone 730/970Hz @ 2Hz 3. Continuous tone 970Hz	042bj/21
S3-V-R	S-Cubed Type A Red Body Voice Sounder with Short Circuit Isolator (S3-DB-R and S3-SB-R Bases) Note: 1. Meets the requirements of EN 54-3 at the following sounder tone and speech settings: 1. Intermittent tone 970Hz @ 1Hz (Speech Message 3) 2. Alternating tone 730/970Hz @ 2Hz (Speech Message 5) 3. Continuous tone 970Hz	042bj/22
S3-S-W	S-Cubed Type A White Body Sounder with Short Circuit Isolator (S3-DB-W and S3-SB-W Bases) Note: 1. Meets the requirements of EN 54-3 at the following sounder tone settings: 1. Intermittent tone 970Hz @ 1Hz 2. Alternating tone 730/970Hz @ 2Hz 3. Continuous tone 970Hz	042bj/23
S3-V-W	S-Cubed Type A White Body Voice Sounder with Short Circuit Isolator (S3-DB-W and S3-SB-W Bases) Note: 1. Meets the requirements of EN 54-3 at the following sounder tone and speech settings: 1. Intermittent tone 970Hz @ 1Hz (Speech Message 3) 2. Alternating tone 730/970Hz @ 2Hz (Speech Message 5) 3. Continuous tone 970Hz	042bj/24
S3EP-S-R	S-Cubed Type A Red Body Sounder with Short Circuit Isolator (Back Box) Note: 1. Meets the requirements of EN 54-3 at the following sounder tone settings: 1. Intermittent tone 970Hz @ 1Hz 2. Alternating tone 730/970Hz @ 2Hz 3. Continuous tone 970Hz	042bj/25
S3-SN-R-BC	Backwards Compatible (MK1) Type A Sounder / Red Body (S3-DB-R and S3-SB-R Bases) Note: 1. Meets the requirements of EN 54-3 at the following sounder tone settings: 1. Intermittent tone 970Hz @ 1Hz 2. Alternating tone 730/970Hz @ 2Hz 3. Continuous tone 970Hz	042bj/26
S3-SN-ST-RR-BC	Backwards Compatible (MK1) Type A Sounder - Strobe / Red Body (S3-DB-R and S3-SB-R Bases) Notes: 1. Meets the requirements of EN 54-3 at the following sounder tone settings: 1. Intermittent tone 970Hz @ 1Hz 2. Alternating tone 730/970Hz @ 2Hz 3. Continuous tone 970Hz	042bj/27

Products Extras
S3-DB-R S Cubed Deep Base – Red
S3-DB-W S Cubed Deep Base – White
S3-SB-R S Cubed Shallow Base – Red
S3-SB-W S Cubed Shallow Base – White
Back Box

A copy of the certificate, confirming the full scope of approval including notes relating to the superscript references in the above table, may be viewed online by clicking on the product name in the associated entry on www.RedBookLive.com

Gulf Alarm UK Limited

Office 32, 19-21 Crawford Street, London W1H 1PJ, United Kingdom
E-mail: info@gulfalarm.com • Website: www.gulfalarm.com

Certificate No: 1330d-(cl-5) to EN 54-3: 2014 + A1:2019

Certificated Products		LPCB Ref. No.
GA7300	Addressable Sounder Strobe (GA3980 base) *Notes:* *1. Approved to Type A Indoor use only.* *2. Meets the requirements of EN 54-3 at the following tones:* • *Tone 14, 2400 Hz – 2900 Hz @ 3Hz* • *Tone 16, 500Hz – 1200Hz, 3.75s on/0.25s off* • *Tone 17, 800Hz, 1s off/1s on* *The strobe function is not approved to EN 54-23*	1330d/01
GA7302	Addressable Sounder Base *Notes:* *1. Approved to Type A Indoor use only.* *2. Meets the requirements of EN 54-3 at the following tones:* • *Tone 14, 2400 Hz – 2900 Hz @ 3Hz* • *Tone 16, 500Hz – 1200Hz, 3.75s on/0.25s off* • *Tone 17, 800Hz, 1s off/1s on* *The strobe function is not approved to EN 54-23*	1330d/02

Bases

GA3980 Sounder Base

A copy of the certificate, confirming the full scope of approval including notes relating to the superscript references in the above table, may be viewed online by clicking on the product name in the associated entry on www.RedBookLive.com

Gulf Security Technology Co., Ltd.

No 80 Changjiang East Road, QETDZ, Qinhuangdao, Hebei Province 066004, China
Tel: +86 0335 8502434 • Fax: +86 0335 8502532
E-mail: sales@carrier.com • Website: www.gst.com.cn

Certificate No: 548e to EN 54-3: :2014 + A1:2019

Audible Warning Devices

Certificated Products		LPCB Ref. No.
C-9403	Conventional sounder strobe (Shallow Base and C-94DB Base) *Notes:* *1. Meets the requirements of EN 54-3 at the following tones:* *Tone 01 2800Hz 0.34s off/0.4s on Tone 02 2400Hz -2900Hz @3Hz* *2. The strobe function is not in the scope of this approval.*	548e/01
I-9403	Intelligent sounder strobe (Shallow Base and C-94DB Base) *Notes:* *1. Meets the requirements of EN 54-3 at the following tones:* *Tone 14 2400Hz - 2900Hz @ 3Hz* *Tone 16 500HZ - 1200Hz, 3.75s on / 0.25s off* *Pre Alarm 800Hz, 1s on / 1s off* *2. Approved in both normal and power saving mode* *3. The visual alarm function is not in the scope of this approval* *4. Approved with single address and dual address (pre-alarm and main alarm).*	548e/02
C-9404	Conventional Type A Sounder (Shallow base, C-94DB Deep Base) *Note:* *1. Meets the requirements of EN 54-3 at the following tones:* *Tone 01 2800Hz 0.34s off/0.4s on* *Tone 02 2400Hz-2900Hz @ 3Hz*	548e/04
I-9404	Intelligent Type A Sounder (Shallow base, C-94DB Deep base)	548e/05

Certificated Products		LPCB Ref. No.
	Note: *1. Meets the requirements of EN 54-3 at the following tones:* *Tone 14 2400Hz-2900Hz @ 3Hz* *Tone 16 500Hz-1200Hz, 3.75s/0.25off* *Pre-Alarm 800Hz 1s off / 1s on*	
DI-9405	Analogue Addressable Type A Sounder Base (DB-01 base) *Notes:* *1. Meets the requirements of EN 54-3 at the following tones:* *Tone 14 2400Hz-2900Hz @ 3Hz* *Tone 16 500Hz-1200Hz, 3.75s on/0.25s off* *2. Approved with DI-9103 heat detector and DI-9102 smoke detector*	548e/06
DI-9406	Analogue Addressable Type A Flashing Sounder Beacon Base (DB-01 base) *Notes:* *1. Meets the requirements of EN 54-3 at the following tones:* *Tone 14 2400Hz-2900Hz @ 3Hz* *Tone 16 500Hz-1200Hz, 3.75s on/0.25s off* *2. Approved with DI-9103 heat detector and DI-9102 smoke detector* *3. The visual alarm function is not in the scope of this approval*	548e/07

Bases
Shallow Base
C-94DB Deep base

A copy of the certificate, confirming the full scope of approval including notes relating to the superscript references in the above table, may be viewed online by clicking on the product name in the associated entry on www.RedBookLive.com

---

Hochiki Europe (UK) Limited

Grosvenor Road, Gillingham Business Park, Gillingham, Kent ME8 0SA, United Kingdom
Tel: +44 (0)1634 260133 • Fax: +44 (0)1634 260132
E-mail: info@hochikieurope.com • Website: www.hochikieurope.com

Certificate No: 164h to EN 54 3:2001 + A1:2002 + A2:2006

Certificated Products		LPCB Ref. No.
YBO-BS(HFP)	Intelligent Analogue Addressable Type A Base Sounder - White Version (YBN-R/3, YBN-R/3(WHT), YBO-R/SCI(RED) *Note:* *1) Meets the requirements of EN 54-3 for tones 1 to 51 listed under Approved Tones*	164h/01
YBO-BS(WHT)	Intelligent Analogue Addressable Type A Base Sounder - White Version (YBN-R/3, YBN-R/3(WHT), YBO-R/SCI(RED) *Note:* *1. Meets the requirements of EN 54-3 for tones 1 to 51 listed under Approved Tones.*	164h/01
CHQ-WS2(HFP)	Intelligent Analogue Addressable Type A Wall Sounder (YBN-R/3(WHT)-SCI, YBO-R/3(RED), YBO-R/3(WHT), YBO-R/SCI(RED) *Note:* *1) Meets the requirements of EN 54-3 for tones 1 to 51 listed under Approved Tones*	164h/02
CHQ-WS2(WHT)	Intelligent Analogue Addressable Type A Wall Sounder - White Version (YBN-R/3(WHT)-SCI, YBO-R/3(RED), YBO-R/3(WHT), YBO-R/SCI(RED) *Note:* *1. Meets the requirements of EN 54-3 for tones 1 to 51 listed under Approved Tones.*	164h/02
CHQ-WS2/W	Intelligent Analogue Addressable Type B Wall Sounder- Weatherproof Version (YBN-R/3(WHT)-SCI, YBO-R/3(RED), YBO-R/3(WHT), YBO-R/SCI(RED) *Notes:* *1) Meets the requirements of EN 54-3 for tones 1 to 51 listed under Approved Tones* *2) Includes a WS2-WPK Weatherproofing Kit*	164h/02
YBO-BS	Intelligent Analogue Addressable Type A Base Sounder (YBN-R/3, YBN-R/3(WHT), YBO-R/SCI(RED) *Note:* *1) Meets the requirements of EN 54-3 for tones 1 to 51 listed under Approved Tones*	164h/01
CHQ-WS2	Intelligent Analogue Addressable Type A Wall Sounder	164h/02

Certificated Products		LPCB Ref. No.
	(YBN-R/3(WHT)-SCI, YBO-R/3(RED), YBO-R/3(WHT), YBO-R/SCI(RED) *Note:* *1. Meets the requirements of EN 54-3 for tones 1 to 51 listed under Approved Tones.*	
YBO-BS2	Intelligent Analogue Addressable Type A Base Sounder - Ivory Version (YBV-R/4 base) Note: 1. Meets the requirements of EN 54-3 for all 56 tones *Approved Tones* *1 925 Hz : 250 ms / 628 Hz : 250 ms* *2 925 Hz Continuous* *3 628 Hz Continuous* *4 (French) 554 Hz : 100 ms / 440 Hz : 400 ms* *5 (Swedish) 660 Hz : 150 ms / Off : 150 ms* *6 925 Hz : 150 ms / Off : 600 ms* *7 670 Hz : 250 ms / 845 Hz : 370 ms* *8 Whoop 500 Hz 1200 Hz : 3000 ms / Off : 500 ms* *9 1200 Hz : 500 ms / 500 Hz : 500 ms* *10 970 Hz : 500 ms / Off : 500 ms* *11 Sweep 800 Hz 970 Hz over 140 ms (7 Hz)* *12 Sweep 800 Hz 970 Hz over 1000 ms (1 Hz)* *13 Sweep 800 Hz 970 Hz over 20 ms (50 Hz)* *14 Sweep 2400 Hz 2850 Hz over 140 ms (7 Hz)* *15 Sweep 2400 Hz 2850 Hz over 1000 ms (1 Hz)* *16 Sweep 300 Hz 1200 Hz over 1000 ms (1 Hz)* *17 ISO8201 : 970 Hz : 500 ms / Off : 500 ms* *18 ISO8201 : 2850 Hz : 500 ms / Off : 500 ms* *19 800 Hz : 250 ms / 970 Hz : 250 ms* *20 2850 Hz Continuous* *21 - 2400 Hz : 250 ms / 2850 Hz : 250 ms* *22 - 800 Hz : 500 ms / 970 Hz : 500 ms* *23 - 2850 Hz : 500 ms / Off : 500 ms* *24 - 925 Hz : 250 ms / Off : 1000 ms* *25 - 970 Hz Continuous* *26 - 660 Hz : 1800 ms / Off: 1800 ms* *27 - 660 Hz : 6500 ms / Off : 13000 ms* *28 - 660 Hz Continuous* *29 - 554 Hz : 500 ms / 440 Hz : 500 ms* *30 - 660 Hz : 500 ms / Off : 500 ms* *31 - 2850 Hz : 150 ms / Off : 100 ms* *32 - Sweep 2400 Hz - 2850 Hz over 20 ms (50 Hz)* *33 - Sweep 800 Hz - 970 Hz over 500 ms (2 Hz)* *34 - 988 Hz : 250 ms / 645 Hz : 250 ms* *35 - 510 Hz : 250 ms / 610 Hz : 250 ms* *36 - Sweep 800 Hz - 970 Hz over 110 ms (9 Hz)* *37 - Sweep 800 Hz - 970 Hz over 330 ms (3 Hz)* *38 - 845 Hz Continuous* *39 - 970 Hz : 1000 ms / Off : 1000 ms* *40 - 800 Hz : 150 ms / 970 Hz : 150 ms* *41 - Sweep 2400 Hz - 2850 Hz over 110 ms (9 Hz)* *42 - Sweep 2400 Hz - 2850 Hz over 330 ms (3 Hz)* *43 - 2850 Hz : 1000 ms / Off : 1000 ms* *44 - 2400 Hz : 150 ms / 2850 Hz : 150 ms* *45 - (German) Whoop 1200 Hz - 500 Hz : 1000ms / Off : 10 ms* *46 - 440 Hz : 600 ms / Off : 600 ms* *47 - Whoop 500 Hz - 1200 Hz : 3750 ms / Off : 250 ms* *48 - ISO8201 : 925 Hz, 628 Hz : 250 ms / Off 500 ms* *49 - ISO8201 : Sweep 300 Hz - 1200 Hz : 500 ms / Off : 500 ms* *50 - ISO8201 : Sweep 1200 Hz - 300 Hz : 500 ms / Off : 500 ms* *51 - Whoop 500-1200 3500 ms / Off 500 ms* *53 - Marine 1000Hz (1s on, 1s off)x7 + (7s on, 1s off)* *54 - Whoop 1200 Hz 500 Hz : 1000ms* *55 - Ramp up 150 Hz 1000 Hz : 10s. 1000 Hz 40s. Ramp down 1000 Hz 150 Hz: 10s.* *56 - 725 Hz Continuous* *57 - 725 Hz : 700 ms / Off : 300 ms*	164h/06
YBO-BS2(WHT)	Intelligent Analogue Addressable Type A Base Sounder - White Version (YBV-R/4(WHT) base) Note: 1. Meets the requirements of EN 54-3 for all 56 tones *Approved Tones* *1 925 Hz : 250 ms / 628 Hz : 250 ms* *2 925 Hz Continuous* *3 628 Hz Continuous* *4 (French) 554 Hz : 100 ms / 440 Hz : 400 ms*	164h/06

Certificated Products		LPCB Ref. No.
	5 (Swedish) 660 Hz : 150 ms / Off : 150 ms *6 925 Hz : 150 ms / Off : 600 ms* *7 670 Hz : 250 ms / 845 Hz : 370 ms* *8 Whoop 500 Hz 1200 Hz : 3000 ms / Off : 500 ms* *9 1200 Hz : 500 ms / 500 Hz : 500 ms* *10 970 Hz : 500 ms / Off : 500 ms* *11 Sweep 800 Hz 970 Hz over 140 ms (7 Hz)* *12 Sweep 800 Hz 970 Hz over 1000 ms (1 Hz)* *13 Sweep 800 Hz 970 Hz over 20 ms (50 Hz)* *14 Sweep 2400 Hz 2850 Hz over 140 ms (7 Hz)* *15 Sweep 2400 Hz 2850 Hz over 1000 ms (1 Hz)* *16 Sweep 300 Hz 1200 Hz over 1000 ms (1 Hz)* *17 ISO8201 : 970 Hz : 500 ms / Off : 500 ms* *18 ISO8201 : 2850 Hz : 500 ms / Off : 500 ms* *19 800 Hz : 250 ms / 970 Hz : 250 ms* *20 2850 Hz Continuous* *21 - 2400 Hz : 250 ms / 2850 Hz : 250 ms* *22 - 800 Hz : 500 ms / 970 Hz : 500 ms* *23 - 2850 Hz : 500 ms / Off : 500 ms* *24 - 925 Hz : 250 ms / Off : 1000 ms* *25 - 970 Hz Continuous* *26 - 660 Hz : 1800 ms / Off: 1800 ms* *27 - 660 Hz : 6500 ms / Off : 13000 ms* *28 - 660 Hz Continuous* *29 - 554 Hz : 500 ms / 440 Hz : 500 ms* *30 - 660 Hz : 500 ms / Off : 500 ms* *31 - 2850 Hz : 150 ms / Off : 100 ms* *32 - Sweep 2400 Hz - 2850 Hz over 20 ms (50 Hz)* *33 - Sweep 800 Hz - 970 Hz over 500 ms (2 Hz)* *34 - 988 Hz : 250 ms / 645 Hz : 250 ms* *35 - 510 Hz : 250 ms / 610 Hz : 250 ms* *36 - Sweep 800 Hz - 970 Hz over 110 ms (9 Hz)* *37 - Sweep 800 Hz - 970 Hz over 330 ms (3 Hz)* *38 - 845 Hz Continuous* *39 - 970 Hz : 1000 ms / Off : 1000 ms* *40 - 800 Hz : 150 ms / 970 Hz : 150 ms* *41 - Sweep 2400 Hz - 2850 Hz over 110 ms (9 Hz)* *42 - Sweep 2400 Hz - 2850 Hz over 330 ms (3 Hz)* *43 - 2850 Hz : 1000 ms / Off : 1000 ms* *44 - 2400 Hz : 150 ms / 2850 Hz : 150 ms* *45 - (German) Whoop 1200 Hz - 500 Hz : 1000ms / Off : 10 ms* *46 - 440 Hz : 600 ms / Off : 600 ms* *47 - Whoop 500 Hz - 1200 Hz : 3750 ms / Off : 250 ms* *48 - ISO8201 : 925 Hz, 628 Hz : 250 ms / Off 500 ms* *49 - ISO8201 : Sweep 300 Hz - 1200 Hz : 500 ms / Off : 500 ms* *50 - ISO8201 : Sweep 1200 Hz - 300 Hz : 500 ms / Off : 500 ms* *51 - Whoop 500-1200 3500 ms / Off 500 ms* *53 - Marine 1000Hz (1s on, 1s off)x7 + (7s on, 1s off)* *54 - Whoop 1200 Hz 500 Hz : 1000ms* *55 - Ramp up 150 Hz 1000 Hz : 10s. 1000 Hz 40s. Ramp down 1000 Hz 150 Hz: 10s.* *56 - 725 Hz Continuous* *57 - 725 Hz : 700 ms / Off : 300 ms*	
YBO-BS2(BLK)	Intelligent Analogue Addressable Type A Base Sounder - Black Version (YBV-R/4(BLK) base) Note: 1. Meets the requirements of EN 54-3 for all 56 tones *Approved Tones* *1 925 Hz : 250 ms / 628 Hz : 250 ms* *2 925 Hz Continuous* *3 628 Hz Continuous* *4 (French) 554 Hz : 100 ms / 440 Hz : 400 ms* *5 (Swedish) 660 Hz : 150 ms / Off : 150 ms* *6 925 Hz : 150 ms / Off : 600 ms* *7 670 Hz : 250 ms / 845 Hz : 370 ms* *8 Whoop 500 Hz 1200 Hz : 3000 ms / Off : 500 ms* *9 1200 Hz : 500 ms / 500 Hz : 500 ms* *10 970 Hz : 500 ms / Off : 500 ms* *11 Sweep 800 Hz 970 Hz over 140 ms (7 Hz)* *12 Sweep 800 Hz 970 Hz over 1000 ms (1 Hz)* *13 Sweep 800 Hz 970 Hz over 20 ms (50 Hz)* *14 Sweep 2400 Hz 2850 Hz over 140 ms (7 Hz)* *15 Sweep 2400 Hz 2850 Hz over 1000 ms (1 Hz)*	164h/06

Certificated Products		LPCB Ref. No.
	16 Sweep 300 Hz 1200 Hz over 1000 ms (1 Hz) *17 ISO8201 : 970 Hz : 500 ms / Off : 500 ms* *18 ISO8201 : 2850 Hz : 500 ms / Off : 500 ms* *19 800 Hz : 250 ms / 970 Hz : 250 ms* *20 2850 Hz Continuous* *21 - 2400 Hz : 250 ms / 2850 Hz : 250 ms* *22 - 800 Hz : 500 ms / 970 Hz : 500 ms* *23 - 2850 Hz : 500 ms / Off : 500 ms* *24 - 925 Hz : 250 ms / Off : 1000 ms* *25 - 970 Hz Continuous* *26 - 660 Hz : 1800 ms / Off: 1800 ms* *27 - 660 Hz : 6500 ms / Off : 13000 ms* *28 - 660 Hz Continuous* *29 - 554 Hz : 500 ms / 440 Hz : 500 ms* *30 - 660 Hz : 500 ms / Off : 500 ms* *31 - 2850 Hz : 150 ms / Off : 100 ms* *32 - Sweep 2400 Hz - 2850 Hz over 20 ms (50 Hz)* *33 - Sweep 800 Hz - 970 Hz over 500 ms (2 Hz)* *34 - 988 Hz : 250 ms / 645 Hz : 250 ms* *35 - 510 Hz : 250 ms / 610 Hz : 250 ms* *36 - Sweep 800 Hz - 970 Hz over 110 ms (9 Hz)* *37 - Sweep 800 Hz - 970 Hz over 330 ms (3 Hz)* *38 - 845 Hz Continuous* *39 - 970 Hz : 1000 ms / Off : 1000 ms* *40 - 800 Hz : 150 ms / 970 Hz : 150 ms* *41 - Sweep 2400 Hz - 2850 Hz over 110 ms (9 Hz)* *42 - Sweep 2400 Hz - 2850 Hz over 330 ms (3 Hz)* *43 - 2850 Hz : 1000 ms / Off : 1000 ms* *44 - 2400 Hz : 150 ms / 2850 Hz : 150 ms* *45 - (German) Whoop 1200 Hz - 500 Hz : 1000ms / Off : 10 ms* *46 - 440 Hz : 600 ms / Off : 600 ms* *47 - Whoop 500 Hz - 1200 Hz : 3750 ms / Off : 250 ms* *48 - ISO8201 : 925 Hz, 628 Hz : 250 ms / Off 500 ms* *49 - ISO8201 : Sweep 300 Hz - 1200 Hz : 500 ms / Off : 500 ms* *50 - ISO8201 : Sweep 1200 Hz - 300 Hz : 500 ms / Off : 500 ms* *51 - Whoop 500-1200 3500 ms / Off 500 ms* *53 - Marine 1000Hz (1s on, 1s off)x7 + (7s on, 1s off)* *54 - Whoop 1200 Hz 500 Hz : 1000ms* *55 - Ramp up 150 Hz 1000 Hz : 10s. 1000 Hz 40s. Ramp down 1000 Hz 150 Hz: 10s.* *56 - 725 Hz Continuous* *57 - 725 Hz : 700 ms / Off : 300 ms*	
YBO-BS2(HFP)	Intelligent Analogue Addressable Type A Base Sounder - White Version (YBV-R/4(WHT) base) Note: 1. Meets the requirements of EN 54-3 for all 56 tones *Approved Tones* *1 925 Hz : 250 ms / 628 Hz : 250 ms* *2 925 Hz Continuous* *3 628 Hz Continuous* *4 (French) 554 Hz : 100 ms / 440 Hz : 400 ms* *5 (Swedish) 660 Hz : 150 ms / Off : 150 ms* *6 925 Hz : 150 ms / Off : 600 ms* *7 670 Hz : 250 ms / 845 Hz : 370 ms* *8 Whoop 500 Hz 1200 Hz : 3000 ms / Off : 500 ms* *9 1200 Hz : 500 ms / 500 Hz : 500 ms* *10 970 Hz : 500 ms / Off : 500 ms* *11 Sweep 800 Hz 970 Hz over 140 ms (7 Hz)* *12 Sweep 800 Hz 970 Hz over 1000 ms (1 Hz)* *13 Sweep 800 Hz 970 Hz over 20 ms (50 Hz)* *14 Sweep 2400 Hz 2850 Hz over 140 ms (7 Hz)* *15 Sweep 2400 Hz 2850 Hz over 1000 ms (1 Hz)* *16 Sweep 300 Hz 1200 Hz over 1000 ms (1 Hz)* *17 ISO8201 : 970 Hz : 500 ms / Off : 500 ms* *18 ISO8201 : 2850 Hz : 500 ms / Off : 500 ms* *19 800 Hz : 250 ms / 970 Hz : 250 ms* *20 2850 Hz Continuous* *21 - 2400 Hz : 250 ms / 2850 Hz : 250 ms* *22 - 800 Hz : 500 ms / 970 Hz : 500 ms* *23 - 2850 Hz : 500 ms / Off : 500 ms* *24 - 925 Hz : 250 ms / Off : 1000 ms* *25 - 970 Hz Continuous* *26 - 660 Hz : 1800 ms / Off: 1800 ms*	164h/06

Certificated Products **LPCB Ref. No.**

27 - 660 Hz : 6500 ms / Off : 13000 ms
28 - 660 Hz Continuous
29 - 554 Hz : 500 ms / 440 Hz : 500 ms
30 - 660 Hz : 500 ms / Off : 500 ms
31 - 2850 Hz : 150 ms / Off : 100 ms
32 - Sweep 2400 Hz - 2850 Hz over 20 ms (50 Hz)
33 - Sweep 800 Hz - 970 Hz over 500 ms (2 Hz)
34 - 988 Hz : 250 ms / 645 Hz : 250 ms
35 - 510 Hz : 250 ms / 610 Hz : 250 ms
36 - Sweep 800 Hz - 970 Hz over 110 ms (9 Hz)
37 - Sweep 800 Hz - 970 Hz over 330 ms (3 Hz)
38 - 845 Hz Continuous
39 - 970 Hz : 1000 ms / Off : 1000 ms
40 - 800 Hz : 150 ms / 970 Hz : 150 ms
41 - Sweep 2400 Hz - 2850 Hz over 110 ms (9 Hz)
42 - Sweep 2400 Hz - 2850 Hz over 330 ms (3 Hz)
43 - 2850 Hz : 1000 ms / Off : 1000 ms
44 - 2400 Hz : 150 ms / 2850 Hz : 150 ms
45 - (German) Whoop 1200 Hz - 500 Hz : 1000ms / Off : 10 ms
46 - 440 Hz : 600 ms / Off : 600 ms
47 - Whoop 500 Hz - 1200 Hz : 3750 ms / Off : 250 ms
48 - ISO8201 : 925 Hz, 628 Hz : 250 ms / Off 500 ms
49 - ISO8201 : Sweep 300 Hz - 1200 Hz : 500 ms / Off : 500 ms
50 - ISO8201 : Sweep 1200 Hz - 300 Hz : 500 ms / Off : 500 ms
51 - Whoop 500-1200 3500 ms / Off 500 ms
53 - Marine 1000Hz (1s on, 1s off)x7 + (7s on, 1s off)
54 - Whoop 1200 Hz 500 Hz : 1000ms
55 - Ramp up 150 Hz 1000 Hz : 10s. 1000 Hz 40s. Ramp down 1000 Hz 150 Hz: 10s.
56 - 725 Hz Continuous
57 - 725 Hz : 700 ms / Off : 300 ms

Bases:
YBN-R/3 Standard Base
YBN-R/3(WHT) Standard Base
YBN-R/3(WHT)-SCI Short Circuit Isolator Base
YBO-R/SCI(RED) Short Circuit Isolator Base
YBO-R/3(RED) Standard Base
YBO-R/3(WHT) Standard Base
YBV-R/4 Standard Base
YBV-R/4(WHT) Standard Base
YBV-R/4(BLK) Standard Base

Accessories:
WS2-WPK Weatherproofing Kit

Approved Tones:
1 - 925 Hz : 250 ms / 628 Hz : 250 ms
2 - 925 Hz Continuous
3 - 628 Hz Continuous
4 - (French) 554 Hz : 100 ms / 440 Hz : 400 ms
5 - (Swedish) 660 Hz : 150 ms / Off : 150 ms
6 - 925 Hz : 150 ms / Off : 600 ms
7 - 670 Hz : 250 ms / 845 Hz : 370 ms
8 - Whoop 500 Hz - 1200 Hz : 3000 ms / Off : 500 ms
9 - 1200 Hz : 500 ms / 500 Hz : 500 ms
10 - 970 Hz : 500 ms / Off : 500 ms
11 - Sweep 800 Hz - 970 Hz over 140 ms (7 Hz)
12 - Sweep 800 Hz - 970 Hz over 1000 ms (1 Hz)
13 - Sweep 800 Hz - 970 Hz over 20 ms (50 Hz)
14 - Sweep 2400 Hz - 2850 Hz over 140 ms (7 Hz)
15 - Sweep 2400 Hz - 2850 Hz over 1000 ms (1 Hz)
16 - Sweep 300 Hz - 1200 Hz over 1000 ms (1 Hz)
17 - ISO8201 : 970 Hz : 500 ms / Off : 500 ms
18 - ISO8201 : 2850 Hz : 500 ms / Off : 500 ms
19 - 800 Hz : 250 ms / 970 Hz : 250 ms
20 - 2850 Hz Continuous
21 - 2400 Hz : 250 ms / 2850 Hz : 250 ms
22 - 800 Hz : 500 ms / 970 Hz : 500 ms
23 - 2850 Hz : 500 ms / Off : 500 ms
24 - 925 Hz : 250 ms / Off : 1000 ms

25 - 970 Hz Continuous
26 - 660 Hz : 1800 ms / Off: 1800 ms
27 - 660 Hz : 6500 ms / Off : 13000 ms
28 - 660 Hz Continuous
29 - 554 Hz : 500 ms / 440 Hz : 500 ms
30 - 660 Hz : 500 ms / Off : 500 ms
31 - 2850 Hz : 150 ms / Off : 100 ms
32 - Sweep 2400 Hz - 2850 Hz over 20 ms (50 Hz)
33 - Sweep 800 Hz - 970 Hz over 500 ms (2 Hz)
34 - 988 Hz : 250 ms / 645 Hz : 250 ms
35 - 510 Hz : 250 ms / 610 Hz : 250 ms
36 - Sweep 800 Hz - 970 Hz over 110 ms (9 Hz)
37 - Sweep 800 Hz - 970 Hz over 330 ms (3 Hz)
38 - 845 Hz Continuous
39 - 970 Hz : 1000 ms / Off : 1000 ms
40 - 800 Hz : 150 ms / 970 Hz : 150 ms
41 - Sweep 2400 Hz - 2850 Hz over 110 ms (9 Hz)
42 - Sweep 2400 Hz - 2850 Hz over 330 ms (3 Hz)
43 - 2850 Hz : 1000 ms / Off : 1000 ms
44 - 2400 Hz : 150 ms / 2850 Hz : 150 ms
45 - (German) Whoop 1200 Hz - 500 Hz : 1000ms / Off : 10 ms
46 - 440 Hz : 600 ms / Off : 600 ms
47 - Whoop 500 Hz - 1200 Hz : 3750 ms / Off : 250 ms
48 - ISO8201 : 925 Hz, 628 Hz : 250 ms / Off 500 ms
49 - ISO8201 : Sweep 300 Hz - 1200 Hz : 500 ms / Off : 500 ms
50 - ISO8201 : Sweep 1200 Hz - 300 Hz : 500 ms / Off : 500 ms
51 - Whoop 500-1200 3500 ms / Off 500 ms
53 - Marine 1000Hz (1s on, 1s off)x7 + (7s on, 1s off)
54 - Whoop 1200 Hz - 500 Hz : 1000ms
55 - Ramp up 150 Hz - 1000 Hz : 10s. 1000 Hz 40s. Ramp down 1000 Hz - 150 Hz: 10s.
56 - 725 Hz Continuous
57 - 725 Hz : 700 ms / Off : 300 ms

A copy of the certificate, confirming the full scope of approval including notes relating to the superscript references in the above table, may be viewed online by clicking on the product name in the associated entry on www.RedBookLive.com

Certificate No: 164s to EN 54-23: 2010

Certificated Products		**LPCB Ref. No.**
CHQ-CB(RED)/WL-15	Addressable Ceiling VAD (White LED) (YBO-R/SCI, YBN-R/3(SCI), YBN-R/3, YBO-BS, YBO-SB2(RL&WL) & YBO-BSB Bases) *Notes:* *1 . The ceiling mounted VAD meets the requirements of EN 54-23: 2010 for the following categories:- Light Coverage Distance O-1.2-7.5, O-2.2-5, O-2.54-1.36* *- LOL 0- Flash rate 0.5Hz* *- Synchronization* *2 . The ceiling mounted VAD meets the requirements of EN 54-23: 2010 for the following categories:- Light Coverage Distance C-3-11.4, O-3.6-11.17, O-3.88-4* *- LOL 1- Flash rate 0.5Hz* *- Synchronization* *3. The ceiling mounted VAD meets the requirements of EN 54-23: 2010 for the following categories:- Light Coverage Distance C-3-15.1, O-4.7-15, O-4.89-9.68, O-5-5.4* *- LOL 2- Flash rate 0.5Hz* *- Synchronization* *4. The ceiling mounted VAD meets the requirements of EN 54-23: 2010 for the following categories:- Light Coverage Distance O-1.54-5.3, O-1.7-5* *- LOL 0- Flash rate 1Hz* *- Synchronization* *5. The ceiling mounted VAD meets the requirements of EN 54-23: 2010 for the following categories:- Light Coverage Distance C-3-1.5, O-2.6-8* *- LOL 1- Flash rate 1Hz* *- Synchronization* *6. The ceiling mounted VAD meets the requirements of EN 54-23: 2010 for the following categories:- Light Coverage Distance C-3-10, O-3.6-11.3, O-3.7-4.27* *- LOL 2- Flash rate 1Hz* *- Synchronization* 7. Type B for outdoor use when used in conjunction with a WS2-WPK weatherproofing kit	164s/01
CHQ-CB(WHT)/WL-15	Addressable Ceiling VAD (White LED) (YBO-R/SCI, YBN-R/3(SCI), YBN-R/3, YBO-BS, YBO-SB2(RL&WL) & YBO-BSB Bases)	164s/02

Certificated Products		LPCB Ref. No.
	Notes: *1 . The ceiling mounted VAD meets the requirements of EN 54-23: 2010 for the following categories:- Light Coverage Distance O-1.2-7.5, O-2.2-5, O-2.54-1.36* *- LOL 0- Flash rate 0.5Hz* *- Synchronization* *2 . The ceiling mounted VAD meets the requirements of EN 54-23: 2010 for the following categories:- Light Coverage Distance C-3-11.4, O-3.6-11.17, O-3.88-4* *- LOL 1- Flash rate 0.5Hz* *- Synchronization* *3. The ceiling mounted VAD meets the requirements of EN 54-23: 2010 for the following categories:- Light Coverage Distance C-3-15.1, O-4.7-15, O-4.89-9.68, O-5-5.4* *- LOL 2- Flash rate 0.5Hz* *- Synchronization* *4. The ceiling mounted VAD meets the requirements of EN 54-23: 2010 for the following categories:- Light Coverage Distance O-1.54-5.3, O-1.7-5* *- LOL 0- Flash rate 1Hz* *- Synchronization* *5. The ceiling mounted VAD meets the requirements of EN 54-23: 2010 for the following categories:- Light Coverage Distance C-3-1.5, O-2.6-8* *- LOL 1- Flash rate 1Hz* *- Synchronization* *6. The ceiling mounted VAD meets the requirements of EN 54-23: 2010 for the following categories:- Light Coverage Distance C-3-10, O-3.6-11.3, O-3.7-4.27* *- LOL 2- Flash rate 1Hz* *- Synchronization* 7. Type B for outdoor use when used in conjunction with a WS2-WPK weatherproofing kit	
CHQ-CB(RED)/WL	Addressable Ceiling VAD (White LED) (YBO-R/SCI, YBN-R/3(SCI), YBN-R/3, YBO-BS,YBO-BSB2(RL&WL) & YBO-BSB Bases) *Notes:* *1 . The ceiling mounted VAD meets the requirements of EN 54-23: 2010 for the following categories:- Light Coverage Distance C-3 -6.5, O-1.18-7.1, O-3.26-3.76* *- LOL 0- Flash rate 0.5Hz* *- Synchronization* *2 . The ceiling mounted VAD meets the requirements of EN 54-23: 2010 for the following categories:- Light Coverage Distance C-3-7.9, O-3.4-7.5, O-3.72-6.9* *- LOL 1- Flash rate 0.5Hz* *- Synchronization* *3. The ceiling mounted VAD meets the requirements of EN 54-23: 2010 for the following categories:- Light Coverage Distance C-3-10, O-4.3-10, O-4.6-5.42* *- LOL 2- Flash rate 0.5Hz* *- Synchronization* *4. The ceiling mounted VAD meets the requirements of EN 54-23: 2010 for the following category:- Light Coverage Distance O-2.2-5.2* *- LOL 0- Flash rate 1Hz* *- Synchronization* *5. The ceiling mounted VAD meets the requirements of EN 54-23: 2010 for the following categories:- Light Coverage Distance O-2.4-5.9, O-2.75-5.1* *- LOL 1- Flash rate 1Hz* *- Synchronization* *6. The ceiling mounted VAD meets the requirements of EN 54-23: 2010 for the following categories:- Light Coverage Distance C-3-7.5, O-3.2-7.5, O-3.5-6* *- LOL 2- Flash rate 1Hz* *- Synchronization* 7. Type B for outdoor use when used in conjunction with a WS2-WPK weatherproofing kit	164s/03
CHQ-CB(WHT)/WL	Addressable Ceiling VAD (White LED) (YBO-R/SCI, YBN-R/3(SCI), YBN-R/3, YBO-BS, YBO-BSB2(RL&WL) & YBO-BSB Bases) *Notes:* *1 . The ceiling mounted VAD meets the requirements of EN 54-23: 2010 for the following categories:- Light Coverage Distance C-3 -6.5, O-1.18-7.1, O-3.26-3.76* *- LOL 0- Flash rate 0.5Hz* *- Synchronization* *2 . The ceiling mounted VAD meets the requirements of EN 54-23: 2010 for the following categories:- Light Coverage Distance C-3-7.9, O-3.4-7.5, O-3.72-6.9* *- LOL 1- Flash rate 0.5Hz* *- Synchronization* *3. The ceiling mounted VAD meets the requirements of EN 54-23: 2010 for the following categories:- Light Coverage Distance C-3-10, O-4.3-10, O-4.6-5.42* *- LOL 2- Flash rate 0.5Hz* *- Synchronization*	164s/04

Certificated Products		LPCB Ref. No.
	4. The ceiling mounted VAD meets the requirements of EN 54-23: 2010 for the following category:- Light Coverage Distance O-2.2-5.2 *- LOL 0- Flash rate 1Hz* *- Synchronization* *5. The ceiling mounted VAD meets the requirements of EN 54-23: 2010 for the following categories:- Light Coverage Distance O-2.4-5.9, O-2.75-5.1* *- LOL 1- Flash rate 1Hz* *- Synchronization* *6. The ceiling mounted VAD meets the requirements of EN 54-23: 2010 for the following categories:- Light Coverage Distance C-3-7.5, O-3.2-7.5, O-3.5-6* *- LOL 2- Flash rate 1Hz* *- Synchronization* 7. Type B for outdoor use when used in conjunction with a WS2-WPK weatherproofing kit	
CHQ-CB(RED)/RL	Addressable Ceiling VAD (Red LED) (YBO-R/SCI, YBN-R/3(SCI), YBN-R/3, YBO-BS, YBO-SB2(RL&WL) & YBO-BSB Bases) *Notes:* *1. The ceiling mounted VAD meets the requirements of EN 54-23: 2010 for the following categories:- Light Coverage Distance C-3-1.5, O-2.64-6.85, O-2.79-3.3* *- LOL 0- Flash rate 0.5Hz* *- Synchronization* *2 . The ceiling mounted VAD meets the requirements of EN 54-23: 2010 for the following categories:- Light Coverage Distance C-3-8.6, O-3.5-6.5, O-3.89-1.9* *- LOL 1- Flash rate 0.5Hz* *- Synchronization* *3. The ceiling mounted VAD meets the requirements of EN 54-23: 2010 for the following categories:- Light Coverage Distance C-3-10, O-3.91-10, O-4.12-7.8, O-4.3-4.5* *- LOL 2- Flash rate 0.5Hz* *- Synchronization* *4. The ceiling mounted VAD meets the requirements of EN 54-23: 2010 for the following category:- Light Coverage Distance O-2.05-3.8* *- LOL 0- Flash rate 1Hz* *- Synchronization* *5. The ceiling mounted VAD meets the requirements of EN 54-23: 2010 for the following categories:- Light Coverage Distance O-2.4-6.4, O-2.5-4.99, O-2.7-3* *- LOL 1- Flash rate 1Hz* *- Synchronization* *6. The ceiling mounted VAD meets the requirements of EN 54-23: 2010 for the following categories:- Light Coverage Distance C-3-5.9, O-2.97-7.6, O-3.26-3.6* *- LOL 2- Flash rate 1Hz* *- Synchronization* 7. Type B for outdoor use when used in conjunction with a WS2-WPK weatherproofing kit	164s/05
CHQ-CB(WHT)/RL	Addressable Ceiling VAD (Red LED) (YBO-R/SCI, YBN-R/3(SCI), YBN-R/3, YBO-BS, YBO-BSB2(RL&WL) & YBO-BSB Bases) *Notes:* *1 . The ceiling mounted VAD meets the requirements of EN 54-23: 2010 for the following categories:- Light Coverage Distance C-3-1.5, O-2.64-6.85, O-2.79-3.3* *- LOL 0- Flash rate 0.5Hz* *- Synchronization* *2 . The ceiling mounted VAD meets the requirements of EN 54-23: 2010 for the following categories:- Light Coverage Distance C-3-8.6, O-3.5-6.5, O-3.89-1.9* *- LOL 1- Flash rate 0.5Hz* *- Synchronization* *3. The ceiling mounted VAD meets the requirements of EN 54-23: 2010 for the following categories:- Light Coverage Distance C-3-10, O-3.91-10, O-4.12-7.8, O-4.3-4.5* *- LOL 2- Flash rate 0.5Hz* *- Synchronization* *4. The ceiling mounted VAD meets the requirements of EN 54-23: 2010 for the following category:- Light Coverage Distance O-2.05-3.8* *- LOL 0- Flash rate 1Hz* *- Synchronization* *5. The ceiling mounted VAD meets the requirements of EN 54-23: 2010 for the following categories:- Light Coverage Distance O-2.4-6.4, O-2.5-4.99, O-2.7-3* *- LOL 1- Flash rate 1Hz* *- Synchronization* *6. The ceiling mounted VAD meets the requirements of EN 54-23: 2010 for the following categories:- Light Coverage Distance C-3-5.9, O-2.97-7.6, O-3.26-3.6* *- LOL 2- Flash rate 1Hz* *- Synchronization* 7. Type B for outdoor use when used in conjunction with a WS2-WPK weatherproofing kit	164s/06

Certificated Products		LPCB Ref. No.
CHQ-CB/WL-15	Addressable Ceiling VAD (White LED) (YBO-R/SCI, YBN-R/3(SCI), YBN-R/3, YBO-BS, YBO-BSB2(RL&WL) & YBO-BSB Bases) *Notes:* *1 . The ceiling mounted VAD meets the requirements of EN 54-23: 2010 for the following categories:- Light Coverage Distance O-1.2-7.5, O-2.2-5, O-2.54-1.36* *- LOL 0- Flash rate 0.5Hz* *- Synchronization* *2 . The ceiling mounted VAD meets the requirements of EN 54-23: 2010 for the following categories:- Light Coverage Distance C-3-11.4, O-3.6-11.17, O-3.88-4* *- LOL 1- Flash rate 0.5Hz* *- Synchronization* *3. The ceiling mounted VAD meets the requirements of EN 54-23: 2010 for the following categories:- Light Coverage Distance C-3-15.1, O-4.7-15, O-4.89-9.68, O-5-5.4* *- LOL 2- Flash rate 0.5Hz* *- Synchronization* *4. The ceiling mounted VAD meets the requirements of EN 54-23: 2010 for the following categories:- Light Coverage Distance O-1.54-5.3, O-1.7-5* *- LOL 0- Flash rate 1Hz* *- Synchronization* *5. The ceiling mounted VAD meets the requirements of EN 54-23: 2010 for the following categories:- Light Coverage Distance C-3-1.5, O-2.6-8* *- LOL 1- Flash rate 1Hz* *- Synchronization* *6. The ceiling mounted VAD meets the requirements of EN 54-23: 2010 for the following categories:- Light Coverage Distance C-3-10, O-3.6-11.3, O-3.7-4.27* *- LOL 2- Flash rate 1Hz* *- Synchronization* 7. Type B for outdoor use when used in conjunction with a WS2-WPK weatherproofing kit	164s/07
CHQ-CB/WL	Addressable Ceiling VAD (White LED) (YBO-R/SCI, YBN-R/3(SCI), YBN-R/3, YBO-BS, YBO-BSB2(RL&WL) & YBO-BSB Bases) *Notes:* *1 . The ceiling mounted VAD meets the requirements of EN 54-23: 2010 for the following categories:- Light Coverage Distance C-3 -6.5, O-1.18-7.1, O-3.26-3.76* *- LOL 0- Flash rate 0.5Hz* *- Synchronization* *2 . The ceiling mounted VAD meets the requirements of EN 54-23: 2010 for the following categories:- Light Coverage Distance C-3-7.9, O-3.4-7.5, O-3.72-6.9* *- LOL 1- Flash rate 0.5Hz* *- Synchronization* *3. The ceiling mounted VAD meets the requirements of EN 54-23: 2010 for the following categories:- Light Coverage Distance C-3-10, O-4.3-10, O-4.6-5.42* *- LOL 2- Flash rate 0.5Hz* *- Synchronization* *4. The ceiling mounted VAD meets the requirements of EN 54-23: 2010 for the following category:- Light Coverage Distance O-2.2-5.2* *- LOL 0- Flash rate 1Hz* *- Synchronization* *5. The ceiling mounted VAD meets the requirements of EN 54-23: 2010 for the following categories:- Light Coverage Distance O-2.4-5.9, O-2.75-5.1* *- LOL 1- Flash rate 1Hz* *- Synchronization* *6. The ceiling mounted VAD meets the requirements of EN 54-23: 2010 for the following categories:- Light Coverage Distance C-3-7.5, O-3.2-7.5, O-3.5-6* *- LOL 2- Flash rate 1Hz* *- Synchronization* 7. Type B for outdoor use when used in conjunction with a WS2-WPK weatherproofing kit	164s/08
CHQ-CB/RL	Addressable Ceiling VAD (Red LED) (YBO-R/SCI, YBN-R/3(SCI), YBN-R/3, YBO-BS, YBO-BSB2(RL&WL) & YBO-BSB Bases) *Notes:* *1 . The ceiling mounted VAD meets the requirements of EN 54-23: 2010 for the following categories:- Light Coverage Distance C-3-1.5, O-2.64-6.85, O-2.79-3.3* *- LOL 0- Flash rate 0.5Hz* *- Synchronization* *2 . The ceiling mounted VAD meets the requirements of EN 54-23: 2010 for the following categories:- Light Coverage Distance C-3-8.6, O-3.5-6.5, O-3.89-1.9* *- LOL 1- Flash rate 0.5Hz* *- Synchronization* *3. The ceiling mounted VAD meets the requirements of EN 54-23: 2010 for the following categories:- Light Coverage Distance C-3-10, O-3.91-10, O-4.12-7.8, O-4.3-4.5* *- LOL 2- Flash rate 0.5Hz*	164s/09

Certificated Products		LPCB Ref. No.
	- Synchronization *4. The ceiling mounted VAD meets the requirements of EN 54-23: 2010 for the following category:- Light Coverage Distance O-2.05-3.8* *- LOL 0- Flash rate 1Hz* *- Synchronization* *5. The ceiling mounted VAD meets the requirements of EN 54-23: 2010 for the following categories:- Light Coverage Distance O-2.4-6.4, O-2.5-4.99, O-2.7-3* *- LOL 1- Flash rate 1Hz* *- Synchronization* *6. The ceiling mounted VAD meets the requirements of EN 54-23: 2010 for the following categories:- Light Coverage Distance C-3-5.9, O-2.97-7.6, O-3.26-3.6* *- LOL 2- Flash rate 1Hz* *- Synchronization* 7. Type B for outdoor use when used in conjunction with a WS2-WPK weatherproofing kit	
CHQ-CB(RED)/WL-15-HFP	Addressable Ceiling VAD (White LED) (YBO-R/SCI, YBN-R/3(SCI), YBN-R/3, YBO-BS, YBO-BSB2(RL&WL) & YBO-BSB Bases) *Notes:* *1 . The ceiling mounted VAD meets the requirements of EN 54-23: 2010 for the following categories:- Light Coverage Distance O-1.2-7.5, O-2.2-5, O-2.54-1.36* *- LOL 0- Flash rate 0.5Hz* *- Synchronization* *2 . The ceiling mounted VAD meets the requirements of EN 54-23: 2010 for the following categories:- Light Coverage Distance C-3-11.4, O-3.6-11.17, O-3.88-4* *- LOL 1- Flash rate 0.5Hz* *- Synchronization* *3. The ceiling mounted VAD meets the requirements of EN 54-23: 2010 for the following categories:- Light Coverage Distance C-3-15.1, O-4.7-15, O-4.89-9.68, O-5-5.4* *- LOL 2- Flash rate 0.5Hz* *- Synchronization* *4. The ceiling mounted VAD meets the requirements of EN 54-23: 2010 for the following categories:- Light Coverage Distance O-1.54-5.3, O-1.7-5* *- LOL 0- Flash rate 1Hz* *- Synchronization* *5. The ceiling mounted VAD meets the requirements of EN 54-23: 2010 for the following categories:- Light Coverage Distance C-3-1.5, O-2.6-8* *- LOL 1- Flash rate 1Hz* *- Synchronization* *6. The ceiling mounted VAD meets the requirements of EN 54-23: 2010 for the following categories:- Light Coverage Distance C-3-10, O-3.6-11.3, O-3.7-4.27* *- LOL 2- Flash rate 1Hz* *- Synchronization* 7. Type B for outdoor use when used in conjunction with a WS2-WPK weatherproofing kit	164s/01
CHQ-CB(WHT)/WL-15-HFP	Addressable Ceiling VAD (White LED) (YBO-R/SCI, YBN-R/3(SCI), YBN-R/3, YBO-BS, YBO-BSB2(RL&WL) & YBO-BSB Bases) *Notes:* *1 . The ceiling mounted VAD meets the requirements of EN 54-23: 2010 for the following categories:- Light Coverage Distance O-1.2-7.5, O-2.2-5, O-2.54-1.36* *- LOL 0- Flash rate 0.5Hz* *- Synchronization* *2 . The ceiling mounted VAD meets the requirements of EN 54-23: 2010 for the following categories:- Light Coverage Distance C-3-11.4, O-3.6-11.17, O-3.88-4* *- LOL 1- Flash rate 0.5Hz* *- Synchronization* *3. The ceiling mounted VAD meets the requirements of EN 54-23: 2010 for the following categories:- Light Coverage Distance C-3-15.1, O-4.7-15, O-4.89-9.68, O-5-5.4* *- LOL 2- Flash rate 0.5Hz* *- Synchronization* *4. The ceiling mounted VAD meets the requirements of EN 54-23: 2010 for the following categories:- Light Coverage Distance O-1.54-5.3, O-1.7-5* *- LOL 0- Flash rate 1Hz* *- Synchronization* *5. The ceiling mounted VAD meets the requirements of EN 54-23: 2010 for the following categories:- Light Coverage Distance C-3-1.5, O-2.6-8* *- LOL 1- Flash rate 1Hz* *- Synchronization* *6. The ceiling mounted VAD meets the requirements of EN 54-23: 2010 for the following categories:- Light Coverage Distance C-3-10, O-3.6-11.3, O-3.7-4.27* *- LOL 2- Flash rate 1Hz* *- Synchronization* 7. Type B for outdoor use when used in conjunction with a WS2-WPK	164s/02

Certificated Products		LPCB Ref. No.
	weatherproofing kit	
CHQ-CB(RED)/WL-HFP	Addressable Ceiling VAD (White LED) (YBO-R/SCI, YBN-R/3(SCI), YBN-R/3, YBO-BS, YBO-BSB2(RL&WL) & YBO-BSB Bases) *Notes:* *1 . The ceiling mounted VAD meets the requirements of EN 54-23: 2010 for the following categories:- Light Coverage Distance C-3 -6.5, O-1.18-7.1, O-3.26-3.76* *- LOL 0- Flash rate 0.5Hz* *- Synchronization* *2 . The ceiling mounted VAD meets the requirements of EN 54-23: 2010 for the following categories:- Light Coverage Distance C-3-7.9, O-3.4-7.5, O-3.72-6.9* *- LOL 1- Flash rate 0.5Hz* *- Synchronization* *3. The ceiling mounted VAD meets the requirements of EN 54-23: 2010 for the following categories:- Light Coverage Distance C-3-10, O-4.3-10, O-4.6-5.42* *- LOL 2- Flash rate 0.5Hz* *- Synchronization* *4. The ceiling mounted VAD meets the requirements of EN 54-23: 2010 for the following category:- Light Coverage Distance O-2.2-5.2* *- LOL 0- Flash rate 1Hz* *- Synchronization* *5. The ceiling mounted VAD meets the requirements of EN 54-23: 2010 for the following categories:- Light Coverage Distance O-2.4-5.9, O-2.75-5.1* *- LOL 1- Flash rate 1Hz* *- Synchronization* *6. The ceiling mounted VAD meets the requirements of EN 54-23: 2010 for the following categories:- Light Coverage Distance C-3-7.5, O-3.2-7.5, O-3.5-6* *- LOL 2- Flash rate 1Hz* *- Synchronization* 7. Type B for outdoor use when used in conjunction with a WS2-WPK weatherproofing kit	164s/03
CHQ-CB(WHT)/WL-HFP	Addressable Ceiling VAD (White LED) (YBO-R/SCI, YBN-R/3(SCI), YBN-R/3, YBO-BS, YBO-BSB2(RL&WL) & YBO-BSB Bases) *Notes:* *1 . The ceiling mounted VAD meets the requirements of EN 54-23: 2010 for the following categories:- Light Coverage Distance C-3 -6.5, O-1.18-7.1, O-3.26-3.76* *- LOL 0- Flash rate 0.5Hz* *- Synchronization* *2 . The ceiling mounted VAD meets the requirements of EN 54-23: 2010 for the following categories:- Light Coverage Distance C-3-7.9, O-3.4-7.5, O-3.72-6.9* *- LOL 1- Flash rate 0.5Hz* *- Synchronization* *3. The ceiling mounted VAD meets the requirements of EN 54-23: 2010 for the following categories:- Light Coverage Distance C-3-10, O-4.3-10, O-4.6-5.42* *- LOL 2- Flash rate 0.5Hz* *- Synchronization* *4. The ceiling mounted VAD meets the requirements of EN 54-23: 2010 for the following category:- Light Coverage Distance O-2.2-5.2* *- LOL 0- Flash rate 1Hz* *- Synchronization* *5. The ceiling mounted VAD meets the requirements of EN 54-23: 2010 for the following categories:- Light Coverage Distance O-2.4-5.9, O-2.75-5.1* *- LOL 1- Flash rate 1Hz* *- Synchronization* *6. The ceiling mounted VAD meets the requirements of EN 54-23: 2010 for the following categories:- Light Coverage Distance C-3-7.5, O-3.2-7.5, O-3.5-6* *- LOL 2- Flash rate 1Hz* *- Synchronization* 7. Type B for outdoor use when used in conjunction with a WS2-WPK weatherproofing kit	164s/04
CHQ-CB(RED)/RL-HFP	Addressable Ceiling VAD (Red LED) (YBO-R/SCI, YBN-R/3(SCI), YBN-R/3, YBO-BS, YBO-BSB2(RL&WL) & YBO-BSB Bases) *Notes:* *1 . The ceiling mounted VAD meets the requirements of EN 54-23: 2010 for the following categories:- Light Coverage Distance C-3-1.5, O-2.64-6.85, O-2.79-3.3* *- LOL 0- Flash rate 0.5Hz* *- Synchronization* *2 . The ceiling mounted VAD meets the requirements of EN 54-23: 2010 for the following categories:- Light Coverage Distance C-3-8.6, O-3.5-6.5, O-3.89-1.9* *- LOL 1- Flash rate 0.5Hz* *- Synchronization* *3. The ceiling mounted VAD meets the requirements of EN 54-23: 2010 for the following categories:- Light Coverage Distance C-3-10, O-3.91-10, O-4.12-7.8, O-4.3-4.5*	164s/05

Certificated Products		LPCB Ref. No.
	- LOL 2- Flash rate 0.5Hz *- Synchronization* *4. The ceiling mounted VAD meets the requirements of EN 54-23: 2010 for the following category:- Light Coverage Distance O-2.05-3.8* *- LOL 0- Flash rate 1Hz* *- Synchronization* *5. The ceiling mounted VAD meets the requirements of EN 54-23: 2010 for the following categories:- Light Coverage Distance O-2.4-6.4, O-2.5-4.99, O-2.7-3* *- LOL 1- Flash rate 1Hz* *- Synchronization* *6. The ceiling mounted VAD meets the requirements of EN 54-23: 2010 for the following categories:- Light Coverage Distance C-3-5.9, O-2.97-7.6, O-3.26-3.6* *- LOL 2- Flash rate 1Hz* *- Synchronization* 7. Type B for outdoor use when used in conjunction with a WS2-WPK weatherproofing kit	
CHQ-CB(WHT)/RL-HFP	Addressable Ceiling VAD (Red LED) (YBO-R/SCI, YBN-R/3(SCI), YBN-R/3, YBO-BS, YBO-BSB2(RL&WL) & YBO-BSB Bases) *Notes:* *1 . The ceiling mounted VAD meets the requirements of EN 54-23: 2010 for the following categories:- Light Coverage Distance C-3-1.5, O-2.64-6.85, O-2.79-3.3* *- LOL 0- Flash rate 0.5Hz* *- Synchronization* *2 . The ceiling mounted VAD meets the requirements of EN 54-23: 2010 for the following categories:- Light Coverage Distance C-3-8.6, O-3.5-6.5, O-3.89-1.9* *- LOL 1- Flash rate 0.5Hz* *- Synchronization* *3. The ceiling mounted VAD meets the requirements of EN 54-23: 2010 for the following categories:- Light Coverage Distance C-3-10, O-3.91-10, O-4.12-7.8, O-4.3-4.5* *- LOL 2- Flash rate 0.5Hz* *- Synchronization* *4. The ceiling mounted VAD meets the requirements of EN 54-23: 2010 for the following category:- Light Coverage Distance O-2.05-3.8* *- LOL 0- Flash rate 1Hz* *- Synchronization* *5. The ceiling mounted VAD meets the requirements of EN 54-23: 2010 for the following categories:- Light Coverage Distance O-2.4-6.4, O-2.5-4.99, O-2.7-3* *- LOL 1- Flash rate 1Hz* *- Synchronization* *6. The ceiling mounted VAD meets the requirements of EN 54-23: 2010 for the following categories:- Light Coverage Distance C-3-5.9, O-2.97-7.6, O-3.26-3.6* *- LOL 2- Flash rate 1Hz* *- Synchronization* 7. Type B for outdoor use when used in conjunction with a WS2-WPK weatherproofing kit	164s/06
CHQ-WB(WHT)/WL	Intelligent Analogue Addressable Type A Wall VAD (White LED)-White Body (YBO-R/SCI, YBN-R/3(SCI), YBN-R/3, YBO-BS, YBO-BSB2(RL&WL) & YBO-BSB Bases) Notes: 1. The Wall mounted VAD meets the requirements of EN 54-23: 2010 for the following categories: - Light Coverage Distance W-2.4-5 - LOL 0 - Flash rate 0.5Hz - Synchronization 2. The Wall mounted VAD meets the requirements of EN 54-23: 2010 for the following categories: - Light Coverage Distance W-2.4-5.5 - LOL 1 - Flash rate 0.5Hz - Synchronization 3. The Wall mounted VAD meets the requirements of EN 54-23: 2010 for the following categories: - Light Coverage Distance W-2.4-7 - LOL 2 - Flash rate 0.5Hz - Synchronization 4. The Wall mounted VAD meets the requirements of EN 54-23: 2010 for the following categories: - Light Coverage Distance W-2.4-1 - LOL 1 - Flash rate 1Hz - Synchronization 5. The Wall mounted VAD meets the requirements of EN 54-23: 2010 for the following categories: - Light Coverage Distance W-2.4-5.5 - LOL 2 - Flash rate 1Hz - Synchronization6. The Default factory setting is LOL 1, 0.5Hz 7. Type B for outdoor use when used in conjunction with a WS2-WPK weatherproofing kit.	164s/11
CHQ-WB(RED)/WL	Intelligent Analogue Addressable Type A Wall VAD (White LED)-Red Body (YBO-R/SCI, YBN-R/3(SCI), YBN-R/3, YBO-BS, YBO-BSB2(RL&WL) & YBO-BSB Bases)	164s/12

Certificated Products		LPCB Ref. No.
	Notes: 1. The Wall mounted VAD meets the requirements of EN 54-23: 2010 for the following categories: - Light Coverage Distance W-2.4-5 - LOL 0 - Flash rate 0.5Hz - Synchronization 2. The Wall mounted VAD meets the requirements of EN 54-23: 2010 for the following categories: - Light Coverage Distance W-2.4-5.5 - LOL 1 - Flash rate 0.5Hz - Synchronization 3. The Wall mounted VAD meets the requirements of EN 54-23: 2010 for the following categories: - Light Coverage Distance W-2.4-7 - LOL 2 - Flash rate 0.5Hz - Synchronization 4. The Wall mounted VAD meets the requirements of EN 54-23: 2010 for the following categories: - Light Coverage Distance W-2.4-1 - LOL 1 - Flash rate 1Hz - Synchronization 5. The Wall mounted VAD meets the requirements of EN 54-23: 2010 for the following categories: - Light Coverage Distance W-2.4-5.5 - LOL 2 - Flash rate 1Hz - Synchronization6. The Default factory setting is LOL 1, 0.5Hz 7. Type B for outdoor use when used in conjunction with a WS2-WPK weatherproofing kit.	
CHQ-WB/RL	Intelligent Analogue Addressable Type A Wall VAD (Red LED) (YBO-R/SCI, YBN-R/3(SCI), YBN-R/3, YBO-BS, YBO-BSB2(RL&WL) & YBO-BSB Bases) Notes 1. The Wall mounted VAD meets the requirements of EN 54-23: 2010 for the following categories: - Light Coverage Distance O-2-3* * Light coverage defined as per standard W-rating but with a maximum height of 2m(rectangular) - LOL 0 - Flash rate 0.5Hz - Synchronization 2. The Wall mounted VAD meets the requirements of EN 54-23: 2010 for the following categories: - Light Coverage Distance W-2.4-5 - LOL 1 - Flash rate 0.5Hz - Synchronization 3. The Wall mounted VAD meets the requirements of EN 54-23: 2010 for the following categories: - Light Coverage Distance W-2.4-5.5 - LOL 2 - Flash rate 0.5Hz - Synchronization 4. The Wall mounted VAD meets the requirements of EN 54-23: 2010 for the following categories: - Light Coverage Distance W-2.7-1.07 - LOL 1 - Flash rate 1Hz - Synchronization 5. The Wall mounted VAD meets the requirements of EN 54-23: 2010 for the following categories: - Light Coverage Distance W-2.4-4 - LOL 2 - Flash rate 1Hz - Synchronization 6. The Default factory setting is LOL 1, 0.5Hz 7. Type B for outdoor use when used in conjunction with a WS2-WPK weatherproofing kit.	164s/13
CHQ-WB(WHT)/RL	Intelligent Analogue Addressable Type A Wall VAD (Red LED)-White Body (YBO-R/SCI, YBN-R/3(SCI), YBN-R/3, YBO-BS, YBO-BSB2(RL&WL) & YBO-BSB Bases) Notes: 1. The Wall mounted VAD meets the requirements of EN 54-23: 2010 for the following categories: - Light Coverage Distance O-2-3* * Light coverage defined as per standard W-rating but with a maximum height of 2m(rectangular) - LOL 0 - Flash rate 0.5Hz - Synchronization 2. The Wall mounted VAD meets the requirements of EN 54-23: 2010 for the following categories: - Light Coverage Distance W-2.4-5 - LOL 1 - Flash rate 0.5Hz - Synchronization 3. The Wall mounted VAD meets the requirements of EN 54-23: 2010 for the following categories: - Light Coverage Distance W-2.4-5.5 - LOL 2 - Flash rate 0.5Hz - Synchronization 4. The Wall mounted VAD meets the requirements of EN 54-23: 2010 for the following categories: - Light Coverage Distance W-2.7-1.07 - LOL 1 - Flash rate 1Hz - Synchronization 5. The Wall mounted VAD meets the requirements of EN 54-23: 2010 for the following categories: - Light Coverage Distance W-2.4-4	164s/14

Certificated Products		LPCB Ref. No.
	- LOL 2 - Flash rate 1Hz - Synchronization 6. The Default factory setting is LOL 1, 0.5Hz 7. Type B for outdoor use when used in conjunction with a WS2-WPK weatherproofing kit.	
CHQ-WB(RED)/RL	Intelligent Analogue Addressable Type A Wall VAD (Red LED)-Red Body (YBO-R/SCI, YBN-R/3(SCI), YBN-R/3, YBO-BS, YBO-BSB2(RL&WL) & YBO-BSB Bases) Notes 1. The Wall mounted VAD meets the requirements of EN 54-23: 2010 for the following categories: - Light Coverage Distance O-2-3* * Light coverage defined as per standard W-rating but with a maximum height of 2m(rectangular) - LOL 0 - Flash rate 0.5Hz - Synchronization 2. The Wall mounted VAD meets the requirements of EN 54-23: 2010 for the following categories: - Light Coverage Distance W-2.4-5 - LOL 1 - Flash rate 0.5Hz - Synchronization 3. The Wall mounted VAD meets the requirements of EN 54-23: 2010 for the following categories: - Light Coverage Distance W-2.4-5.5 - LOL 2 - Flash rate 0.5Hz - Synchronization 4. The Wall mounted VAD meets the requirements of EN 54-23: 2010 for the following categories: - Light Coverage Distance W-2.7-1.07 - LOL 1 - Flash rate 1Hz - Synchronization 5. The Wall mounted VAD meets the requirements of EN 54-23: 2010 for the following categories: - Light Coverage Distance W-2.4-4 - LOL 2 - Flash rate 1Hz - Synchronization 6. The Default factory setting is LOL 1, 0.5Hz 7. Type B for outdoor use when used in conjunction with a WS2-WPK weatherproofing kit.	164s/15
CHQ-WB(WHT)/WL-HFP	Intelligent Analogue Addressable Type A Wall VAD (White LED) - White Body (YBO-R/SCI, YBN-R/3(SCI), YBN-R/3, YBO-BS, YBO-BSB2(RL&WL) & YBO-BSB Bases) Notes: 1. The Wall mounted VAD meets the requirements of EN 54-23: 2010 for the following categories: - Light Coverage Distance W-2.4-5 - LOL 0 - Flash rate 0.5Hz - Synchronization 2. The Wall mounted VAD meets the requirements of EN 54-23: 2010 for the following categories: - Light Coverage Distance W-2.4-5.5 - LOL 1 - Flash rate 0.5Hz - Synchronization 3. The Wall mounted VAD meets the requirements of EN 54-23: 2010 for the following categories: - Light Coverage Distance W-2.4-7 - LOL 2 - Flash rate 0.5Hz - Synchronization 4. The Wall mounted VAD meets the requirements of EN 54-23: 2010 for the following categories: - Light Coverage Distance W-2.4-1 - LOL 1 - Flash rate 1Hz - Synchronization 5. The Wall mounted VAD meets the requirements of EN 54-23: 2010 for the following categories: - Light Coverage Distance W-2.4-5.5 - LOL 2 - Flash rate 1Hz - Synchronization6. The Default factory setting is LOL 1, 0.5Hz 7. Type B for outdoor use when used in conjunction with a WS2-WPK weatherproofing kit.	164s/11
CHQ-WB(RED)/WL-HFP	Intelligent Analogue Addressable Type A Wall VAD (White LED)-Red Body (YBO-R/SCI, YBN-R/3(SCI), YBN-R/3, YBO-BS, YBO-BSB2(RL&WL) & YBO-BSB Bases) Notes: 1. The Wall mounted VAD meets the requirements of EN 54-23: 2010 for the following categories: - Light Coverage Distance W-2.4-5 - LOL 0 - Flash rate 0.5Hz - Synchronization 2. The Wall mounted VAD meets the requirements of EN 54-23: 2010 for the following categories: - Light Coverage Distance W-2.4-5.5 - LOL 1 - Flash rate 0.5Hz - Synchronization 3. The Wall mounted VAD meets the requirements of EN 54-23: 2010 for the following categories: - Light Coverage Distance W-2.4-7 - LOL 2 - Flash rate 0.5Hz - Synchronization	164s/12

Certificated Products		LPCB Ref. No.
	4. The Wall mounted VAD meets the requirements of EN 54-23: 2010 for the following categories: - Light Coverage Distance W-2.4-1 - LOL 1 - Flash rate 1Hz - Synchronization 5. The Wall mounted VAD meets the requirements of EN 54-23: 2010 for the following categories: - Light Coverage Distance W-2.4-5.5 - LOL 2 - Flash rate 1Hz - Synchronization6. The Default factory setting is LOL 1, 0.5Hz 7. Type B for outdoor use when used in conjunction with a WS2-WPK weatherproofing kit.	
CHQ-WB(WHT)/RL-HFP	Intelligent Analogue Addressable Type A Wall VAD (Red LED)-White Body (YBO-R/SCI, YBN-R/3(SCI), YBN-R/3, YBO-BS, YBO-BSB2(RL&WL) & YBO-BSB Bases) Notes 1. The Wall mounted VAD meets the requirements of EN 54-23: 2010 for the following categories: - Light Coverage Distance O-2-3* * Light coverage defined as per standard W-rating but with a maximum height of 2m(rectangular) - LOL 0 - Flash rate 0.5Hz - Synchronization 2. The Wall mounted VAD meets the requirements of EN 54-23: 2010 for the following categories: - Light Coverage Distance W-2.4-5 - LOL 1 - Flash rate 0.5Hz - Synchronization 3. The Wall mounted VAD meets the requirements of EN 54-23: 2010 for the following categories: - Light Coverage Distance W-2.4-5.5 - LOL 2 - Flash rate 0.5Hz - Synchronization 4. The Wall mounted VAD meets the requirements of EN 54-23: 2010 for the following categories: - Light Coverage Distance W-2.7-1.07 - LOL 1 - Flash rate 1Hz - Synchronization 5. The Wall mounted VAD meets the requirements of EN 54-23: 2010 for the following categories: - Light Coverage Distance W-2.4-4 - LOL 2 - Flash rate 1Hz - Synchronization 6. The Default factory setting is LOL 1, 0.5Hz 7. Type B for outdoor use when used in conjunction with a WS2-WPK weatherproofing kit.	164s/14
CHQ-WB(RED)/RL-HFP	Intelligent Analogue Addressable Type A Wall VAD (Red LED) - Red Body (YBO-R/SCI, YBN-R/3(SCI), YBN-R/3, YBO-BS, YBO-BSB2(RL&WL) & YBO-BSB Bases) Notes 1. The Wall mounted VAD meets the requirements of EN 54-23: 2010 for the following categories: - Light Coverage Distance O-2.3* * Light coverage defined as per standard W-rating but with a maximum height of 2m(rectangular) - LOL 0 - Flash rate 0.5Hz - Synchronization 2. The Wall mounted VAD meets the requirements of EN 54-23: 2010 for the following categories: - Light Coverage Distance W-2.4-5 - LOL 1 - Flash rate 0.5Hz - Synchronization 3. The Wall mounted VAD meets the requirements of EN 54-23: 2010 for the following categories: - Light Coverage Distance W-2.4-5.5 - LOL 2 - Flash rate 0.5Hz - Synchronization 4. The Wall mounted VAD meets the requirements of EN 54-23: 2010 for the following categories: - Light Coverage Distance W-2.7-1.07 - LOL 1 - Flash rate 1Hz - Synchronization 5. The Wall mounted VAD meets the requirements of EN 54-23: 2010 for the following categories: - Light Coverage Distance W-2.4-4 - LOL 2 - Flash rate 1Hz - Synchronization 6. The Default factory setting is LOL 1, 0.5Hz 7. Type B for outdoor use when used in conjunction with a WS2-WPK weatherproofing kit.	164s/15

Bases:
YBN-R/3 Analogue mounting base (ivory and white)
YBO-R/SCI Isolator base
YBO-R/3(RED) Standard Base
YBO-R/SCI(RED) Short Circuit Isolator Base
YBN-R/3(WHT) Standard Base
YBO-R/3(WHT) Standard Base

YBN-R/3(SCI) Short Circuit Isolator Base
YBV-R/4 Standard Base
YBV-R/4(WHT) Standard Base
YBV-R/4(BLK) Standard Base

A copy of the certificate, confirming the full scope of approval including notes relating to the superscript references in the above table, may be viewed online by clicking on the product name in the associated entry on www.RedBookLive.com

Certificate No: 164ad to EN 54-3:2014+A1:2019

Certificated Products		**LPCB Ref. No.**
YBO-BS2(SCI)	Intelligent Analogue Addressable Type A Base Sounder with Short Circuit Isolator - Ivory Version (YBV-R/4 base) Note: 1. Meets the requirements of EN 54-3 for all 56 tones	164ad/01
YBO-BS2(WHT)-SCI	Intelligent Analogue Addressable Type A Base Sounder with Short Circuit Isolator - White Version (YBV-R/4(WHT) base) Note: 1. Meets the requirements of EN 54-3 for all 56 tones	164ad/01
YBO-BS2(BLK)-SCI	Intelligent Analogue Addressable Type A Base Sounder with Short Circuit Isolator - Black Version (YBV-R/4(BLK) base) Note: 1. Meets the requirements of EN 54-3 for all 56 tones	164ad/01

Approved Tones

1 – 925 Hz : 250 ms / 628 Hz : 250 ms
2 – 925 Hz Continuous
3 – 628 Hz Continuous
4 – (French) 554 Hz : 100 ms / 440 Hz : 400 ms
5 – (Swedish) 660 Hz : 150 ms / Off : 150 ms
6 – 925 Hz : 150 ms / Off : 600 ms
7 – 670 Hz : 250 ms / 845 Hz : 370 ms
8 – Whoop 500 Hz – 1200 Hz : 3000 ms / Off : 500 ms
9 – 1200 Hz : 500 ms / 500 Hz : 500 ms
10 – 970 Hz : 500 ms / Off : 500 ms
11 – Sweep 800 Hz – 970 Hz over 140 ms (7 Hz)
12 – Sweep 800 Hz – 970 Hz over 1000 ms (1 Hz)
13 – Sweep 800 Hz – 970 Hz over 20 ms (50 Hz)
14 – Sweep 2400 Hz – 2850 Hz over 140 ms (7 Hz)
15 – Sweep 2400 Hz – 2850 Hz over 1000 ms (1 Hz)
16 – Sweep 300 Hz – 1200 Hz over 1000 ms (1 Hz)
17 – ISO8201 : 970 Hz : 500 ms / Off : 500 ms
18 – ISO8201 : 2850 Hz : 500 ms / Off : 500 ms
19 – 800 Hz : 250 ms / 970 Hz : 250 ms
20 – 2850 Hz Continuous
21 - 2400 Hz : 250 ms / 2850 Hz : 250 ms
22 - 800 Hz : 500 ms / 970 Hz : 500 ms
23 - 2850 Hz : 500 ms / Off : 500 ms
24 - 925 Hz : 250 ms / Off : 1000 ms
25 - 970 Hz Continuous
26 - 660 Hz : 1800 ms / Off: 1800 ms
27 - 660 Hz : 6500 ms / Off : 13000 ms
28 - 660 Hz Continuous
29 - 554 Hz : 500 ms / 440 Hz : 500 ms
30 - 660 Hz : 500 ms / Off : 500 ms
31 - 2850 Hz : 150 ms / Off : 100 ms
32 - Sweep 2400 Hz - 2850 Hz over 20 ms (50 Hz)
33 - Sweep 800 Hz - 970 Hz over 500 ms (2 Hz)
34 - 988 Hz : 250 ms / 645 Hz : 250 ms
35 - 510 Hz : 250 ms / 610 Hz : 250 ms
36 - Sweep 800 Hz - 970 Hz over 110 ms (9 Hz)
37 - Sweep 800 Hz - 970 Hz over 330 ms (3 Hz)
38 - 845 Hz Continuous
39 - 970 Hz : 1000 ms / Off : 1000 ms
40 - 800 Hz : 150 ms / 970 Hz : 150 ms
41 - Sweep 2400 Hz - 2850 Hz over 110 ms (9 Hz)
42 - Sweep 2400 Hz - 2850 Hz over 330 ms (3 Hz)
43 - 2850 Hz : 1000 ms / Off : 1000 ms
44 - 2400 Hz : 150 ms / 2850 Hz : 150 ms

45 - (German) Whoop 1200 Hz - 500 Hz : 1000ms / Off : 10 ms
46 - 440 Hz : 600 ms / Off : 600 ms
47 - Whoop 500 Hz - 1200 Hz : 3750 ms / Off : 250 ms
48 - ISO8201 : 925 Hz, 628 Hz : 250 ms / Off 500 ms
49 - ISO8201 : Sweep 300 Hz - 1200 Hz : 500 ms / Off : 500 ms
50 - ISO8201 : Sweep 1200 Hz - 300 Hz : 500 ms / Off : 500 ms
51 - Whoop 500-1200 3500 ms / Off 500 ms
53 - Marine 1000Hz (1s on, 1s off)x7 + (7s on, 1s off)
54 - Whoop 1200 Hz – 500 Hz : 1000ms
55 - Ramp up 150 Hz – 1000 Hz : 10s. 1000 Hz 40s. Ramp down 1000 Hz – 150 Hz: 10s.
56 - 725 Hz Continuous
57 - 725 Hz : 700 ms / Off : 300 ms

Bases

YBV-R/4	Standard Base
YBV-R/4(WHT)	Standard Base
YBV-R/4(BLK)	Standard Base

A copy of the certificate, confirming the full scope of approval including notes relating to the superscript references in the above table, may be viewed online by clicking on the product name in the associated entry on www.RedBookLive.com

Certificate No: 164t to EN 54-3:2014+A1:2019, EN 54-23:2010

Certificated Products		**LPCB Ref. No.**
CHQ-WSB2/WL	Addressable Type A/B Wall Sounder (White LED) Beacon (YBO-R/3(RED), YBO-R/SCI(RED) and YBN-R/3(WHT) bases) Notes: 1. The wall mounted VAD meets the requirements of EN 54-23:2010 for the following: - Category 0 - Flash rate 0.5Hz - Synchronization 2. Meets the requirements of EN 54-3 for tones 1 to 51 listed under Approved Tones. 3. The VAD is Type A when used with any of the above bases and Type B when used with a WS2-WPK weatherproofing kit	164t/01
CHQ-WSB2/RL	Addressable Type A/B Wall Sounder (Red LED) Beacon (YBO-R/3(RED), YBO-R/SCI(RED) and YBN-R/3(WHT) bases) Notes: 1. The wall mounted VAD meets the requirements of EN 54-23:2010 for the following: - Category 0 - Flash rate 0.5Hz - Synchronization 2. Meets the requirements of EN 54-3 for tones 1 to 51 listed under Approved Tones. 3. The VAD is Type A when used with any of the above bases and Type B when used with a WS2-WPK weatherproofing kit	164t/02
CHQ-WSB2(WHT)/WL	Addressable Type A/B Wall Sounder (White LED) Beacon (YBO-R/3(WHT) and YBN-R/3(WHT)-SCI bases) Notes: 1. The wall mounted VAD meets the requirements of EN 54-23:2010 for the following: - Category 0 - Flash rate 0.5Hz - Synchronization 2. Meets the requirements of EN 54-3 for tones 1 to 51 listed under Approved Tones. 3. The VAD is Type A when used with any of the above bases and Type B when used with a WS2-WPK weatherproofing kit	164t/03
CHQ-WSB2(WHT)/RL	Addressable Type A/B Wall Sounder (Red LED) Beacon (YBO-R/3(WHT) and YBN-R/3(WHT)-SCI bases) Notes: 1. The wall mounted VAD meets the requirements of EN 54-23:2010 for the following: - Category 0 - Flash rate 0.5Hz - Synchronization 2. Meets the requirements of EN 54-3 for tones 1 to 51 listed under Approved Tones. 3. The VAD is Type A when used with any of the above bases and Type B when used with a WS2-WPK weatherproofing kit	164t/04
YBO-BSB2/WL	Analogue Addressable Type A Base Sounder (White LED) Beacon (YBO-R/3(RED), YBO-R/SCI(RED) and YBN-R/3(WHT) bases) Notes: 1. The ceiling mounted VAD meets the requirements of EN 54-23:2010 for the following: - Category 0 - Flash rate 0.5Hz - Synchronization	164t/05

Certificated Products		LPCB Ref. No.
	2. Meets the requirements of EN 54-3 for tones 1 to 51 listed under Approved Tones	
YBO-BSB2/RL	Analogue Addressable Type A Base Sounder (Red LED) Beacon (YBO-R/3(RED), YBO-R/SCI(RED) and YBN-R/3(WHT) bases) Notes: 1. The ceiling mounted VAD meets the requirements of EN 54-23:2010 for the following: - Category 0 - Flash rate 0.5Hz - Synchronization 2. Meets the requirements of EN 54-3 for tones 1 to 51 listed under Approved Tones	164t/06
YBO-BSB2(WHT)/WL	Analogue Addressable Type A Base Sounder (White LED) Beacon (YBO-R/3(WHT) and YBN-R/3(WHT)-SCI Bases) Notes: 1. The ceiling mounted VAD meets the requirements of EN 54-23:2010 for the following: - Category 0 - Flash rate 0.5Hz - Synchronization 2. Meets the requirements of EN 54-3 for tones 1 to 51 listed under Approved Tones	164t/07
YBO-BSB2(WHT)/RL	Analogue Addressable Type A Base Sounder (Red LED) Beacon YBO-R/3(WHT) and YBN-R/3(WHT)-SCI Bases Notes: 1. The ceiling mounted VAD meets the requirements of EN 54-23:2010 for the following: - Category 0 - Flash rate 0.5Hz - Synchronization 2. Meets the requirements of EN 54-3 for tones 1 to 51 listed under Approved Tones	164t/08
YBO-BSB2(BLK)/RL	Addressable Type A Base Sounder Beacon (Black Housing, Red LED) YBO-R/3(RED), YBO-R/SCI(RED) and YBN-R/3(WHT), YBO-R/3(WHT) and YBN-R/3(SCI) Bases Notes: 1. The ceiling mounted VAD meets the requirements of EN 54-23:2010 for the following: - Category 0 - Flash rate 0.5Hz - Synchronization 2. Meets the requirements of EN 54-3 for tones 1 to 51 listed under Approved Tones	164t/09
YBO-BSB2(BLK))/WL	Addressable Type A Base Sounder Beacon (Black Housing, White LED) YBO-R/3(RED), YBO-R/SCI(RED) and YBN-R/3(WHT), YBO-R/3(WHT) and YBN-R/3(SCI) Bases Notes: 1. The ceiling mounted VAD meets the requirements of EN 54-23:2010 for the following: - Category 0 - Flash rate 0.5Hz - Synchronization 2. Meets the requirements of EN 54-3 for tones 1 to 51 listed under Approved Tones	164t/10
YBO-BSB3/RL	Intelligent Analogue Addressable Type A Base Sounder Beacon (Red LED) - Ivory Version (YBV-R/4 base) Notes: 1. The ceiling mounted VAD meets the requirements of EN 54-23:2010 for the following: - Category O-1.2-2.0 - Flash rate 0.5Hz - Synchronization 2. Meets the requirements of EN 54-3 for tones 1 to 51 listed under Approved Tones	164t/11
YBO-BSB3(WHT)/RL	Intelligent Analogue Addressable Type A Base Sounder Beacon (Red LED) - White Version (YBV-R/4(WHT) base) Notes: 1. The ceiling mounted VAD meets the requirements of EN 54-23:2010 for the following: - Category O-1.2-2.0 - Flash rate 0.5Hz - Synchronization 2. Meets the requirements of EN 54-3 for all 56 tones as listed under approved tones	164t/11
YBO-BSB3(BLK)/RL	Intelligent Analogue Addressable Type A Base Sounder Beacon (Red LED) - Black Version (YBV-R/4(BLK) base) Notes: 1. The ceiling mounted VAD meets the requirements of EN 54-23:2010 for the following: - Category O-1.2-2.0 - Flash rate 0.5Hz - Synchronization 2. Meets the requirements of EN 54-3 for all 56 tones as listed under approved tones	164t/11
YBO-BSB3/WL	Intelligent Analogue Addressable Type A Base Sounder Beacon (White LED) - Ivory Version (YBV-R/4 base) Notes: 1. The ceiling mounted VAD meets the requirements of EN 54-23:2010 for the following: - Category C-3-2.6 2. Meets the requirements of EN 54-3 for all 56 tones as listed under approved tones	164t/12

Certificated Products		LPCB Ref. No.
	- Flash rate 0.5Hz - Synchronization 2. Meets the requirements of EN 54-3 for all 56 tones as listed under approved tones	
YBO-BSB3(WHT)/WL	Intelligent Analogue Addressable Type A Base Sounder Beacon (White LED) - White Version (YBV-R/4(WHT) base) Notes: 1. The ceiling mounted VAD meets the requirements of EN 54-23:2010 for the following: - Category C-3-2.6 - Flash rate 0.5Hz - Synchronization 2. Meets the requirements of EN 54-3 for all 56 tones as listed under approved tones	164t/12
YBO-BSB3(BLK)/WL	Intelligent Analogue Addressable Type A Base Sounder Beacon (White LED) - Black Version (YBV-R/4(BLK) base) Notes: 1. The ceiling mounted VAD meets the requirements of EN 54-23:2010 for the following: - Category C-3-2.6 - Flash rate 0.5Hz - Synchronization 2. Meets the requirements of EN 54-3 for all 56 tones as listed under approved tones	164t/12

Approved Tones

1 – 925 Hz : 250 ms / 628 Hz : 250 ms
2 – 925 Hz Continuous
3 – 628 Hz Continuous
4 – (French) 554 Hz : 100 ms / 440 Hz : 400 ms
5 – (Swedish) 660 Hz : 150 ms / Off : 150 ms
6 – 925 Hz : 150 ms / Off : 600 ms
7 – 670 Hz : 250 ms / 845 Hz : 370 ms
8 – Whoop 500 Hz – 1200 Hz : 3000 ms / Off : 500 ms
9 – 1200 Hz : 500 ms / 500 Hz : 500 ms
10 – 970 Hz : 500 ms / Off : 500 ms
11 – Sweep 800 Hz – 970 Hz over 140 ms (7 Hz)
12 – Sweep 800 Hz – 970 Hz over 1000 ms (1 Hz)
13 – Sweep 800 Hz – 970 Hz over 20 ms (50 Hz)
14 – Sweep 2400 Hz – 2850 Hz over 140 ms (7 Hz)
15 – Sweep 2400 Hz – 2850 Hz over 1000 ms (1 Hz)
16 – Sweep 300 Hz – 1200 Hz over 1000 ms (1 Hz)
17 – ISO8201 : 970 Hz : 500 ms / Off : 500 ms
18 – ISO8201 : 2850 Hz : 500 ms / Off : 500 ms
19 – 800 Hz : 250 ms / 970 Hz : 250 ms
20 – 2850 Hz Continuous
21 - 2400 Hz : 250 ms / 2850 Hz : 250 ms
22 - 800 Hz : 500 ms / 970 Hz : 500 ms
23 - 2850 Hz : 500 ms / Off : 500 ms
24 - 925 Hz : 250 ms / Off : 1000 ms
25 - 970 Hz Continuous
26 - 660 Hz : 1800 ms / Off: 1800 ms
27 - 660 Hz : 6500 ms / Off : 13000 ms
28 - 660 Hz Continuous
29 - 554 Hz : 500 ms / 440 Hz : 500 ms
30 - 660 Hz : 500 ms / Off : 500 ms
31 - 2850 Hz : 150 ms / Off : 100 ms
32 - Sweep 2400 Hz - 2850 Hz over 20 ms (50 Hz)
33 - Sweep 800 Hz - 970 Hz over 500 ms (2 Hz)
34 - 988 Hz : 250 ms / 645 Hz : 250 ms
35 - 510 Hz : 250 ms / 610 Hz : 250 ms
36 - Sweep 800 Hz - 970 Hz over 110 ms (9 Hz)
37 - Sweep 800 Hz - 970 Hz over 330 ms (3 Hz)
38 - 845 Hz Continuous
39 - 970 Hz : 1000 ms / Off : 1000 ms
40 - 800 Hz : 150 ms / 970 Hz : 150 ms
41 - Sweep 2400 Hz - 2850 Hz over 110 ms (9 Hz)
42 - Sweep 2400 Hz - 2850 Hz over 330 ms (3 Hz)
43 - 2850 Hz : 1000 ms / Off : 1000 ms
44 - 2400 Hz : 150 ms / 2850 Hz : 150 ms
45 - (German) Whoop 1200 Hz - 500 Hz : 1000ms / Off : 10 ms
46 - 440 Hz : 600 ms / Off : 600 ms
47 - Whoop 500 Hz - 1200 Hz : 3750 ms / Off : 250 ms
48 - ISO8201 : 925 Hz, 628 Hz : 250 ms / Off 500 ms
49 - ISO8201 : Sweep 300 Hz - 1200 Hz : 500 ms / Off : 500 ms

50 - ISO8201 : Sweep 1200 Hz - 300 Hz : 500 ms / Off : 500 ms
51 - Whoop 500-1200 3500 ms / Off 500 ms
53 - Marine 1000Hz (1s on, 1s off)x7 + (7s on, 1s off)
54 - Whoop 1200 Hz – 500 Hz : 1000ms
55 - Ramp up 150 Hz – 1000 Hz : 10s. 1000 Hz 40s. Ramp down 1000 Hz – 150 Hz: 10s.
56 - 725 Hz Continuous
57 - 725 Hz : 700 ms / Off : 300 ms

Bases

YBO-R/3(RED)	**Standard Base**
YBO-R/3(WHT)	**Standard Base**
YBN-R/3(WHT)	**Standard Base**
YBO-R/SCI(RED)	**Short Circuit Isolator Base**
YBN-R/3(WHT)-SCI	**Short Circuit Isolator Base**
YBV-R/4	Standard Base
YBV-R/4(WHT)	Standard Base
YBV-R/4(BLK)	Standard Base

Accessories

WS2-WPK	**Weatherproofing kit**

A copy of the certificate, confirming the full scope of approval including notes relating to the superscript references in the above table, may be viewed online by clicking on the product name in the associated entry on www.RedBookLive.com

Certificate No: 164ae to EN 54-3:2014+A1:2019

Certificated Products		**LPCB Ref. No.**
YBO-BSB3/RL(SCI)	Intelligent Analogue Addressable Type A Base Sounder Beacon (Red LED) Beacon with Short Circuit Isolator - Ivory Version (YBV-R/4 base) Notes: 1. The ceiling mounted VAD meets the requirements of EN 54-23:2010 for the following: - Category O-1.2-2.0 - Flash rate 0.5Hz - Synchronization 2. Meets the requirements of EN 54-3 for all 56 tones as listed under approved tones	164ae/01
YBO-BSB3(WHT)/RL-SCI	Intelligent Analogue Addressable Type A Base Sounder Beacon (Red LED) Beacon with Short Circuit Isolator - White Version (YBV-R/4(WHT) base) Notes: 1. The ceiling mounted VAD meets the requirements of EN 54-23:2010 for the following: - Category O-1.2-2.0 - Flash rate 0.5Hz - Synchronization 2. Meets the requirements of EN 54-3 for all 56 tones as listed under approved tones	164ae/01
YBO-BSB3(BLK)/RL-SCI	Intelligent Analogue Addressable Type A Base Sounder Beacon (Red LED) Beacon with Short Circuit Isolator - Black Version (YBV-R/4(BLK) base) Notes: 1. The ceiling mounted VAD meets the requirements of EN 54-23:2010 for the following: - Category O-1.2-2.0 - Flash rate 0.5Hz - Synchronization 2. Meets the requirements of EN 54-3 for all 56 tones as listed under approved tones	164ae/01
YBO-BSB3/WL(SCI)	Intelligent Analogue Addressable Type A Base Sounder Beacon (White LED) with Short Circuit Isolator - Ivory Version (YBV-R/4 base) Notes: 1. The ceiling mounted VAD meets the requirements of EN 54-23:2010 for the following: - Category C-3-2.6 - Flash rate 0.5Hz - Synchronization 2. Meets the requirements of EN 54-3 for all 56 tones as listed under approved tones	164ae/02
YBO-BSB3(WHT)/WL-SCI	Intelligent Analogue Addressable Type A Base Sounder Beacon (White LED) with Short Circuit Isolator - White Version (YBV-R/4(WHT) base) Notes: 1. The ceiling mounted VAD meets the requirements of EN 54-23:2010 for the following: - Category C-3-2.6 - Flash rate 0.5Hz - Synchronization 2. Meets the requirements of EN 54-3 for all 56 tones as listed under approved tones	164ae/02
YBO-BSB3(BLK)/WL-SCI	Intelligent Analogue Addressable Type A Base Sounder Beacon White LED) with Short Circuit Isolator - Black Version (YBV-R/4(BLK) base) Notes: 1. The ceiling mounted VAD meets the requirements of EN 54-23:2010 for the following: - Category C-3-2.6	164ae/02

Certificated Products **LPCB Ref. No.**

- Flash rate 0.5Hz
- Synchronization

2. Meets the requirements of EN 54-3 for all 56 tones as listed under approved tones

Approved Tones

1 – 925 Hz : 250 ms / 628 Hz : 250 ms
2 – 925 Hz Continuous
3 – 628 Hz Continuous
4 – (French) 554 Hz : 100 ms / 440 Hz : 400 ms
5 – (Swedish) 660 Hz : 150 ms / Off : 150 ms
6 – 925 Hz : 150 ms / Off : 600 ms
7 – 670 Hz : 250 ms / 845 Hz : 370 ms
8 – Whoop 500 Hz – 1200 Hz : 3000 ms / Off : 500 ms
9 – 1200 Hz : 500 ms / 500 Hz : 500 ms
10 – 970 Hz : 500 ms / Off : 500 ms
11 – Sweep 800 Hz – 970 Hz over 140 ms (7 Hz)
12 – Sweep 800 Hz – 970 Hz over 1000 ms (1 Hz)
13 – Sweep 800 Hz – 970 Hz over 20 ms (50 Hz)
14 – Sweep 2400 Hz – 2850 Hz over 140 ms (7 Hz)
15 – Sweep 2400 Hz – 2850 Hz over 1000 ms (1 Hz)
16 – Sweep 300 Hz – 1200 Hz over 1000 ms (1 Hz)
17 – ISO8201 : 970 Hz : 500 ms / Off : 500 ms
18 – ISO8201 : 2850 Hz : 500 ms / Off : 500 ms
19 – 800 Hz : 250 ms / 970 Hz : 250 ms
20 – 2850 Hz Continuous
21 - 2400 Hz : 250 ms / 2850 Hz : 250 ms
22 - 800 Hz : 500 ms / 970 Hz : 500 ms
23 - 2850 Hz : 500 ms / Off : 500 ms
24 - 925 Hz : 250 ms / Off : 1000 ms
25 - 970 Hz Continuous
26 - 660 Hz : 1800 ms / Off: 1800 ms
27 - 660 Hz : 6500 ms / Off : 13000 ms
28 - 660 Hz Continuous
29 - 554 Hz : 500 ms / 440 Hz : 500 ms
30 - 660 Hz : 500 ms / Off : 500 ms
31 - 2850 Hz : 150 ms / Off : 100 ms
32 - Sweep 2400 Hz - 2850 Hz over 20 ms (50 Hz)
33 - Sweep 800 Hz - 970 Hz over 500 ms (2 Hz)
34 - 988 Hz : 250 ms / 645 Hz : 250 ms
35 - 510 Hz : 250 ms / 610 Hz : 250 ms
36 - Sweep 800 Hz - 970 Hz over 110 ms (9 Hz)
37 - Sweep 800 Hz - 970 Hz over 330 ms (3 Hz)
38 - 845 Hz Continuous
39 - 970 Hz : 1000 ms / Off : 1000 ms
40 - 800 Hz : 150 ms / 970 Hz : 150 ms
41 - Sweep 2400 Hz - 2850 Hz over 110 ms (9 Hz)
42 - Sweep 2400 Hz - 2850 Hz over 330 ms (3 Hz)
43 - 2850 Hz : 1000 ms / Off : 1000 ms
44 - 2400 Hz : 150 ms / 2850 Hz : 150 ms
45 - (German) Whoop 1200 Hz - 500 Hz : 1000ms / Off : 10 ms
46 - 440 Hz : 600 ms / Off : 600 ms
47 - Whoop 500 Hz - 1200 Hz : 3750 ms / Off : 250 ms
48 - ISO8201 : 925 Hz, 628 Hz : 250 ms / Off 500 ms
49 - ISO8201 : Sweep 300 Hz - 1200 Hz : 500 ms / Off : 500 ms
50 - ISO8201 : Sweep 1200 Hz - 300 Hz : 500 ms / Off : 500 ms
51 - Whoop 500-1200 3500 ms / Off 500 ms
53 - Marine 1000Hz (1s on, 1s off)x7 + (7s on, 1s off)
54 - Whoop 1200 Hz – 500 Hz : 1000ms
55 - Ramp up 150 Hz – 1000 Hz : 10s. 1000 Hz 40s. Ramp down 1000 Hz – 150 Hz: 10s.
56 - 725 Hz Continuous
57 - 725 Hz : 700 ms / Off : 300 ms

Bases

YBV-R/4	Standard Base
YBV-R/4(WHT)	Standard Base
YBV-R/4(BLK)	Standard Base

A copy of the certificate, confirming the full scope of approval including notes relating to the superscript references in the above table, may be viewed online by clicking on the product name in the associated entry on www.RedBookLive.com

Honeywell Products & Solutions Sàrl (Trading as System Sensor Europe)

Zone d'activitiés La Pièce 16, CH-1180, Rolle, Switzerland
Tel: +41 44 943 4424 • Fax: +41 44 943 4399
E-mail: sse.marketing@systemsensor.com • Website: www.systemsensoreurope.com

Certificate No: 567ah-(cl-3) to EN 54-17: 2005 & EN 54-23:2010

Audible Warning Devices

Certificated Products		**LPCB Ref. No.**
WST-xC-Iyy	Analogue addressable wall mounted LED strobe with short circuit isolator (B501AP base) *Notes:* *1. The wall mounted VAD meets the requirements of EN 54-23: 2010 for the following category (light pattern details): - Category O: O-2.4-2 - Flash rate 1Hz* *- Synchronization2. Type A with Bcc deep back box, Type B with Wcc deep back box*	567ah/05
BGL-xC-Ixx	Addressable Type A Detector Base Strobe Notes: 1. The Ceiling mounted VAD meets the requirements of EN 54-23:2010 for the following: - Category rating C-3-8.5 - Synchronization - Flash rate 0.5Hz - Red LED - Clear lens 2. x indicates body colour. D=Detector White, P=Pure White 3. xx indicates customer and associated communication protocol. 01 indicates Advanced Protocol (and Honeywell 500 series protocol) 00 and 02-99 indicates Advanced Protocol (and System Sensor 500 series protocol)	567ah/07
WRL-PC-Ixx	Wall Mounted Strobe with Red Flash, Clear lens, Isolated - Pure White Body (B501AP) Notes: 1. The Wall mounted VAD meets the requirements of EN 54-23 for the following: - Category rating W-3.6-10.5/W-2.4-10.5 - Synchronization - Flash rate 0.5Hz - Red LED - Clear lens	567ah/08
WRL-RC-Ixx	Wall Mounted Strobe with Red Flash, Clear lens, Isolated - Red Body (B501AP) Notes: 1. The Wall mounted VAD meets the requirements of EN 54-23 for the following: - Category rating W-3.6-10.5/W-2.4-10.5 - Synchronization - Flash rate 0.5Hz - Red LED - Clear lens	567ah/09
WWL-PC-Ixx	Wall Mounted Strobe with White Flash, Clear lens, Isolated - Pure White Body (B501AP) Notes: 1. The Wall mounted VAD meets the requirements of EN 54-23 for the following: - Category rating W-3.8-9/W-2.4-9 - Synchronization - Flash rate 0.5Hz - White LED - Clear lens	567ah/10
WWL-RC-Ixx	Wall Mounted Strobe with White Flash, Clear lens, Isolated - Red Body (B501AP) Notes: 1. The Wall mounted VAD meets the requirements of EN 54-23 for the following: - Category rating W-3.8-9/W-2.4-9 - Synchronization - Flash rate 0.5Hz - White LED - Clear lens	567ah/11

Bases / Ancillaries

B501AP-cc	Low profile base IP21C, cc indicates colour, Blank=Pure White, IV=Detector White
Bcc	Deep base IP44, cc indicates colour, RR=Red, DD=Detector White, PW=Pure White
Wcc	Waterproof base IP65, cc indicates colour, RR=Red, DD=Detector White, PW=Pure White
B501AP	Mounting base - Low profile base IP21C

A copy of the certificate, confirming the full scope of approval including notes relating to the superscript references in the above table, may be viewed online by clicking on the product name in the associated entry on www.RedBookLive.com

Certificate No: 567ax-(cl-2) to EN 54-23:2010

Visual Warning Devices

Certificated Products		**LPCB Ref. No.**
WST-xC-Nyy	Analogue addressable wall mounted LED strobe (B501AP base) Notes: 1. The wall mounted VAD meets the requirements of EN 54-23: 2010 for the following category (light pattern details): - Category O: O-2.4-2 - Flash rate 1Hz - Synchronization2. Type A with Bcc deep back box, Type B with Wcc deep back box	567ax/05

Bases/ Ancillaries
B501AP Mounting base - Low profile base IP21C
A copy of the certificate, confirming the full scope of approval including notes relating to the superscript references in the above table, may be viewed online by clicking on the product name in the associated entry on www.RedBookLive.com

Certificate No: 567ay-(cl-2) to EN 54-3:2014 + A1:2019 & EN 54-23:2010

Visual & Audible Warning Devices

Certificated Products		**LPCB Ref. No.**
WSS-xC-Nyy	Analogue Addressable Wall Mounted Sounder / LED Strobe(B501AP base) Notes: 1. The wall mounted VAD meets the requirements of EN 54-23: 2010 for the following category (light pattern details): - Category O - Open Class - Flash rate 1Hz - Synchronization 2. x indicates body colour. D=Detector White, P=Pure White 3. yy indicates customer and associated communication protocol. 01 indicates Advanced Protocol (and Honeywell 500 series protocol) 00 and 02-99 indicates Advanced Protocol (and System Sensor 500 series protocol) 4. Type A with Bcc deep back box, Type B with Wcc deep back box 5. Meets the requirements of EN54-3: 2001 at the following tones: Alternating 525/440, 2Hz (100ms/400ms); Alternating 800/922, 1Hz; Alternating 800/922, 2Hz; Alternating 2400/2900, 3Hz; Alternating 2500/3100, 2Hz; Alternating 988/645, 2Hz; Continuous 630Hz; Continuous 922Hz; Continuous 1200Hz; Continuous 2810Hz; Sweep 150-1000Hz, rise 10s, stable 40s, fall 10s, stable 20s, then Intermittent 420Hz, 0.625s on, 0.625 sec off; Sweep 500-1200Hz, 0.25 sec off, 3.75 sec on; Intermittent 630, 3.33Hz, 150ms on, 150ms off; Intermittent 922, 0.8Hz 0.25s on, 1s off; Intermittent 922, 0.5Hz 1s on, 1s off; Intermittent 2810, 1Hz; Intermittent 922, 1Hz 500ms on, 500ms off; Intermittent 950, 0.22Hz (0.5s on, 0.5s off) x 3, 1.5s off; Continuous 800Hz; Sweep 400-1200Hz, (0.5s on, 0.5s off) x 3, 1.5s off; Sweep 1200 - 500Hz, 0.99Hz 1s on, 0.01s off; Sweep 2400 - 2850, 7Hz; Sweep 500 - 1200Hz, (0.5s off, 3.5s on); Sweep 800 - 970, 50Hz; Sweep 800 - 970, 7Hz; Sweep 800 - 970, 1Hz; Sweep 2400 - 2850, 50Hz; Sweep 500 - 1000, 7Hz; Sweep 500 - 1200 - 500, 0.166Hz rise 1s, stable 4s, fall 1s; Sweep 800 - 1000, 2Hz; Sweep 2400 - 2850, 1Hz	567ay/07

Certificated Products		LPCB Ref. No.
DSS-xC-Nyy	Analogue Addressable Type A Integrated Detector Base Sounder/Beacon (B501AP base) Notes: 1. The wall mounted VAD meets the requirements of EN 54-23: 2010 for the following category (light pattern details): - Category O - Open Class - Flash rate 1Hz - Synchronization 2. x indicates body colour, D=Detector White, P=Pure White 3. yy indicates customer and associated communication protocol. 01 indicates Advanced Protocol (and Honeywell 500 series protocol) 00 and 02-99 indicates Advanced Protocol (and System Sensor 500 series protocol) 4. Meets the requirements of EN54-3 for all output levels at voltage range 15-32VDC and tones: 1) 554/440, 2Hz (100ms/400ms); 2) 800/970, 1Hz; 3) 800/970, 2Hz; 4) 2400/2900, 3Hz; 5) 2500/3100, 2Hz; 6) 988/645, 2Hz; 7) 660Hz; 8) 970Hz; 9) 1200Hz; 10) 2850Hz; 11) 150-1000, rise 10s, stable 40s, fall 10s, stable 20s, then repeating; 12) 420Hz, 0.625s on, 0.625 sec off; 13) 500-1200Hz, 0.25 sec off, 3.75 sec on; 14) 660, 3.33Hz, 150ms on, 150ms off; 15) 970, 0.8Hz 0.25s on, 1s off; 16) 970, 0.5Hz 1s on, 1s off; 17) 2850, 1Hz; 18) 970, 1Hz 500ms on, 500ms off; 19) 950, 0.22Hz (0.5s on, 0.5s off) x 3, 1.5s off; 20) 800Hz; 21) 400-1200Hz, (0.5s on, 0.5s off) x 3, 1.5s off; 22) 1200 - 500Hz, 0.99Hz 1s on, 0.01s off; 23) 2400 - 2850, 7Hz; 24) 500 - 1200Hz, (0.5s off, 3.5s on); 25) 800 - 970, 50Hz; 26) 800 - 970, 7Hz; 27) 800 - 970, 1Hz; 28) 2400 - 2850, 50Hz; 29) 500 - 1000, 7Hz; 30) 500 - 1200 - 500, 0.166Hz rise 1s, stable 4s, fall 1s; 31) 800 - 1000, 2Hz; 32) 2400 - 2850, 1Hz	567ay/08

Bases/ Ancillaries

B501AP Mounting base - Low profile base IP21C
Bcc Deep base IP44, cc indicates colour, RR=Red, DD=Detector White, PW=Pure White
Wcc Waterproof base IP65, cc indicates colour, RR=Red, DD=Detector White, PW=Pure White

A copy of the certificate, confirming the full scope of approval including notes relating to the superscript references in the above table, may be viewed online by clicking on the product name in the associated entry on www.RedBookLive.com

Certificate No: 567az-(cl-1) to EN 54-3:2014 + A1:2019, EN 54-17:2005, EN 54-23:2010

Visual & Audible Warning Devices

Certificated Products		LPCB Ref. No.
WRA-PC-Ixx	Wall Mounted Sounder Strobe with Red Flash, Clear Lens, Isolated - Pure White Body (B501AP) Notes: 1. Meets the requirements of EN 54-23 at the following power settings: - Low red output - Medium red output - High red output 2. The wall mounted Visual Alarm Device (VAD) meets the requirements of EN 54-23 for the following light pattern details: - High Performance setting - (Category W-4.2-11.5/W-2.4-11.5)	567az/01

Certificated Products		LPCB Ref. No.
	- Medium Performance setting - (Category W-3.6-10.5/W-2.4-10.5) - Low Performance setting - (Category O-2.4-3) - Synchronization - Flash rate (0.5Hz & 1Hz) 3. Meets the requirements of EN 54-3 at the following tones: 1 - Alternating 554/440 2Hz (100ms/400ms) 2 - Alternating 800/922 1Hz 3 - Alternating 800/922 2 Hz 4 - Alternating 2400/2900 3Hz 5 - Alternating 2500/3100 2Hz 6 - Alternating 988/645 2Hz 7 - Continuous 630 8 - Continuous 922 9 - Continuous 1200 10 - Continuous 2810 11 - Sweep 150-1000 Rising from 150Hz to 1Khz in 10s, 40s@1KHz, falling from 1KHz to 150Hz in 10s, 20s@150Hz. Period 80s 12 - Intermittent 420 0.625s on, 0.625s off 13 - Sweep 500-1200 0.25s off, 3.75s on 14 - Intermittent 630 3.33Hz 150ms on, 150ms off 15 - Intermittent 922 0.8Hz 0.25s on, 1s off 16 - Intermittent 922 0.5Hz 1s on, 1s off 17 - Intermittent 2810 1Hz 18 - Intermittent 922 1Hz 500ms on, 500ms off 19 - Intermittent 950 0.22Hz (0.5s on, 0.5s off) rptx3, 1.5s off 20 - Continuous 800 21 - Sweep 400-1200 (0.5s on, 0.5s off)*3, 1.5s off 22- Sweep 1200-500 0.99Hz 1s on, 0.01s off 23 - Sweep 2400-2850 7Hz 24 - Sweep 500-1200 (0.5s off, 3.5s on) 25 - Sweep 800-970 50Hz 26 - Sweep 800-970 7Hz 27 - Sweep 800-970 1Hz 28 - Sweep 2400-2850 50Hz 29 - Sweep 500-1000 7Hz 30 - Sweep 500-1200-500 0.166Hz rise 1s, stable 4s, fall 1s 31 - Sweep 800-1000 2Hz 32 - Sweep 2400-2850 1Hz	
WRA-RC-Ixx	Wall Mounted Sounder Strobe with Red Flash, Clear Lens, Isolated - Red Body (B501AP) Notes: 1. Meets the requirements of EN 54-23 at the following power settings: - Low red output - Medium red output - High red output 2. The wall mounted Visual Alarm Device (VAD) meets the requirements of EN 54-23 for the following light pattern details: - High Performance setting - (Category W-4.2-11.5/W-2.4-11.5) - Medium Performance setting - (Category W-3.6-10.5/W-2.4-10.5) - Low Performance setting - (Category O-2.4-3) - Synchronization - Flash rate (0.5Hz & 1Hz) 3. Meets the requirements of EN 54-3 at the following tones: 1 - Alternating 554/440 2Hz (100ms/400ms) 2 - Alternating 800/922 1Hz 3 - Alternating 800/922 2 Hz 4 - Alternating 2400/2900 3Hz 5 - Alternating 2500/3100 2Hz 6 - Alternating 988/645 2Hz 7 - Continuous 630 8 - Continuous 922 9 - Continuous 1200 10 - Continuous 2810 11 - Sweep 150-1000 Rising from 150Hz to 1Khz in 10s, 40s@1KHz, falling from 1KHz to 150Hz in 10s, 20s@150Hz. Period 80s 12 - Intermittent 420 0.625s on, 0.625s off 13 - Sweep 500-1200 0.25s off, 3.75s on 14 - Intermittent 630 3.33Hz 150ms on, 150ms off 15 - Intermittent 922 0.8Hz 0.25s on, 1s off 16 - Intermittent 922 0.5Hz 1s on, 1s off 17 - Intermittent 2810 1Hz 18 - Intermittent 922 1Hz 500ms on, 500ms off	567az/02

Certificated Products		LPCB Ref. No.
	19 - Intermittent 950 0.22Hz (0.5s on, 0.5s off) rptx3, 1.5s off 20 - Continuous 800 21 - Sweep 400-1200 (0.5s on, 0.5s off)*3, 1.5s off 22- Sweep 1200-500 0.99Hz 1s on, 0.01s off 23 - Sweep 2400-2850 7Hz 24 - Sweep 500-1200 (0.5s off, 3.5s on) 25 - Sweep 800-970 50Hz 26 - Sweep 800-970 7Hz 27 - Sweep 800-970 1Hz 28 - Sweep 2400-2850 50Hz 29 - Sweep 500-1000 7Hz 30 - Sweep 500-1200-500 0.166Hz rise 1s, stable 4s, fall 1s 31 - Sweep 800-1000 2Hz 32 - Sweep 2400-2850 1Hz	
WWA-PC-Ixx	Wall Mounted Sounder Strobe with White Flash, Clear Lens, Isolated - Pure White Body (B501AP) Notes: 1. Meets the requirements of EN 54-23 at the following power settings: - Low white output - Medium white output - High white output 2. The wall mounted Visual Alarm Device (VAD) meets the requirements of EN 54-23 for the following light pattern details: - High Performance setting - (Category W-4-11.5/W-2.4-11.5) - Medium Performance setting - (Category W-3.8-9/W-2.4-9) - Low Performance setting - (Category O-2.4-3) - Synchronization - Flash rate (0.5Hz & 1Hz) 3. Meets the requirements of EN 54-3 at the following tones: 1 - Alternating 554/440 2Hz (100ms/400ms) 2 - Alternating 800/922 1Hz 3 - Alternating 800/922 2 Hz 4 - Alternating 2400/2900 3Hz 5 - Alternating 2500/3100 2Hz 6 - Alternating 988/645 2Hz 7 - Continuous 630 8 - Continuous 922 9 - Continuous 1200 10 - Continuous 2810 11 - Sweep 150-1000 Rising from 150Hz to 1Khz in 10s, 40s@1KHz, falling from 1KHz to 150Hz in 10s, 20s@150Hz. Period 80s 12 - Intermittent 420 0.625s on, 0.625s off 13 - Sweep 500-1200 0.25s off, 3.75s on 14 - Intermittent 630 3.33Hz 150ms on, 150ms off 15 - Intermittent 922 0.8Hz 0.25s on, 1s off 16 - Intermittent 922 0.5Hz 1s on, 1s off 17 - Intermittent 2810 1Hz 18 - Intermittent 922 1Hz 500ms on, 500ms off 19 - Intermittent 950 0.22Hz (0.5s on, 0.5s off) rptx3, 1.5s off 20 - Continuous 800 21 - Sweep 400-1200 (0.5s on, 0.5s off)*3, 1.5s off 22- Sweep 1200-500 0.99Hz 1s on, 0.01s off 23 - Sweep 2400-2850 7Hz 24 - Sweep 500-1200 (0.5s off, 3.5s on) 25 - Sweep 800-970 50Hz 26 - Sweep 800-970 7Hz 27 - Sweep 800-970 1Hz 28 - Sweep 2400-2850 50Hz 29 - Sweep 500-1000 7Hz 30 - Sweep 500-1200-500 0.166Hz rise 1s, stable 4s, fall 1s 31 - Sweep 800-1000 2Hz 32 - Sweep 2400-2850 1Hz	567az/03
WWA-RC-Ixx	Wall Mounted Sounder Strobe with White Flash, Clear Lens, Isolated - Red Body (B501AP) Notes: 1. Meets the requirements of EN 54-23 at the following power settings: - Low white output - Medium white output - High white output 2. The wall mounted Visual Alarm Device (VAD) meets the requirements of EN 54-23 for the following light pattern details: - High Performance setting - (Category W-4-11.5/W-2.4-11.5)	567az/04

Certificated Products		LPCB Ref. No.
	- Medium Performance setting - (Category W-3.8-9/W-2.4-9) - Low Performance setting - (Category O-2.4-3) - Synchronization - Flash rate (0.5Hz & 1Hz) 3. Meets the requirements of EN 54-3 at the following tones: 1 - Alternating 554/440 2Hz (100ms/400ms) 2 - Alternating 800/922 1Hz 3 - Alternating 800/922 2 Hz 4 - Alternating 2400/2900 3Hz 5 - Alternating 2500/3100 2Hz 6 - Alternating 988/645 2Hz 7 - Continuous 630 8 - Continuous 922 9 - Continuous 1200 10 - Continuous 2810 11 - Sweep 150-1000 Rising from 150Hz to 1Khz in 10s, 40s@1KHz, falling from 1KHz to 150Hz in 10s, 20s@150Hz. Period 80s 12 - Intermittent 420 0.625s on, 0.625s off 13 - Sweep 500-1200 0.25s off, 3.75s on 14 - Intermittent 630 3.33Hz 150ms on, 150ms off 15 - Intermittent 922 0.8Hz 0.25s on, 1s off 16 - Intermittent 922 0.5Hz 1s on, 1s off 17 - Intermittent 2810 1Hz 18 - Intermittent 922 1Hz 500ms on, 500ms off 19 - Intermittent 950 0.22Hz (0.5s on, 0.5s off) rptx3, 1.5s off 20 - Continuous 800 21 - Sweep 400-1200 (0.5s on, 0.5s off)*3, 1.5s off 22- Sweep 1200-500 0.99Hz 1s on, 0.01s off 23 - Sweep 2400-2850 7Hz 24 - Sweep 500-1200 (0.5s off, 3.5s on) 25 - Sweep 800-970 50Hz 26 - Sweep 800-970 7Hz 27 - Sweep 800-970 1Hz 28 - Sweep 2400-2850 50Hz 29 - Sweep 500-1000 7Hz 30 - Sweep 500-1200-500 0.166Hz rise 1s, stable 4s, fall 1s 31 - Sweep 800-1000 2Hz 32 - Sweep 2400-2850 1Hz	

Bases/ Ancillaries
B501AP Mounting base - Low profile base IP21C

A copy of the certificate, confirming the full scope of approval including notes relating to the superscript references in the above table, may be viewed online by clicking on the product name in the associated entry on www.RedBookLive.com

Certificate No: 567ag-(cl-3) to EN 54-3:2014 + A1:2019, EN 54-17:2005 & EN 54-23:2010

Visual & Audible Warning Devices

Certificated Products		LPCB Ref. No.
WSS-xC-Iyy	Analogue Addressable Wall Mounted Sounder / LED Strobe with Short Circuit Isolator (B501AP base) Notes: 1. The wall mounted VAD meets the requirements of EN 54-23: 2010 for the following category (light pattern details): - Category O - Open Class - Flash rate 1Hz - Synchronization 2. x indicates body colour. D=Detector White, P=Pure White 3. yy indicates customer and associated communication protocol. 01 indicates Advanced Protocol (and Honeywell 500 series protocol) 00 and 02-99 indicates Advanced Protocol (and System Sensor 500 series protocol) 4. Type A with Bcc deep back box, Type B with Wcc deep back box 5. Meets the requirements of EN54-3: 2001 at the following tones: 1) Alternating 525/440, 2Hz (100ms/400ms); 2) Alternating 800/922, 1Hz; 3) Alternating 800/922, 2Hz; 4) Alternating 2400/2900, 3Hz; 5) Alternating 2500/3100, 2Hz; 6) Alternating 988/645, 2Hz;	567ag/21

Certificated Products		LPCB Ref. No.
	7) Continuous 630Hz; 8) Continuous 922Hz; 9) Continuous 1200Hz; 10) Continuous 2810Hz; 11) Sweep 150-1000Hz, rise 10s, stable 40s, fall 10s, stable 20s, then repeating; 12) Intermittent 420Hz, 0.625s on, 0.625 sec off; 13) Sweep 500-1200Hz, 0.25 sec off, 3.75 sec on; 14) Intermittent 630, 3.33Hz, 150ms on, 150ms off; 15) Intermittent 922, 0.8Hz 0.25s on, 1s off; 16) Intermittent 922, 0.5Hz 1s on, 1s off; 17) Intermittent 2810, 1Hz; 18) Intermittent 922, 1Hz 500ms on, 500ms off; 19) Intermittent 950, 0.22Hz (0.5s on, 0.5s off) x 3, 1.5s off; 20) Continuous 800Hz; 21) Sweep 400-1200Hz, (0.5s on, 0.5s off) x 3, 1.5s off; 22) Sweep 1200 - 500Hz, 0.99Hz 1s on, 0.01s off; 23) Sweep 2400 - 2850, 7Hz; 24) Sweep 500 - 1200Hz, (0.5s off, 3.5s on); 25) Sweep 800 - 970, 50Hz; 26) Sweep 800 - 970, 7Hz; 27) Sweep 800 - 970, 1Hz; 28) Sweep 2400 - 2850, 50Hz; 29) Sweep 500 - 1000, 7Hz; 30) Sweep 500 - 1200 - 500, 0.166Hz rise 1s, stable 4s, fall 1s; 31) Sweep 800 - 1000, 2Hz; 32) Sweep 2400 - 2850, 1Hz	
DSS-xC-Iyy	Analogue Addressable Type A Integrated Detector Base Sounder/Beacon with Short Circuit Isolator (B501AP base) Notes: 1. The wall mounted VAD meets the requirements of EN 54-23: 2010 for the following category (light pattern details): - Category O - Open Class - Flash rate 1Hz - Synchronization 2. x indicates body colour. D=Detector White, P=Pure White 3. yy indicates customer and associated communication protocol. 01 indicates Advanced Protocol (and Honeywell 500 series protocol) 00 and 02-99 indicates Advanced Protocol (and System Sensor 500 series protocol) 4. Meets the requirements of EN54-3 for all output levels at voltage range 15-29VDC and tones: 554/440, 2Hz (100ms/400ms); 800/970, 1Hz; 800/970, 2Hz; 2400/2900, 3Hz; 2500/3100, 2Hz; 6) 988/645, 2Hz; 660Hz; 970Hz; 1200Hz; 2850Hz; 150-1000, rise 10s, stable 40s, fall 10s, stable 20s, then repeating; 420Hz, 0.625s on, 0.625 sec off; 500-1200Hz, 0.25 sec off, 3.75 sec on; 660, 3.33Hz, 150ms on, 150ms off; 970, 0.8Hz 0.25s on, 1s off; 970, 0.5Hz 1s on, 1s off; 2850, 1Hz; 970, 1Hz 500ms on, 500ms off; 950, 0.22Hz (0.5s on, 0.5s off) x 3, 1.5s off; 800Hz; 400-1200Hz, (0.5s on, 0.5s off) x 3, 1.5s off; 1200 - 500Hz, 0.99Hz 1s on, 0.01s off; 2400 - 2850, 7Hz; 500 - 1200Hz, (0.5s off, 3.5s on); 800 - 970, 50Hz; 800 - 970, 7Hz; 800 - 970, 1Hz; 2400 - 2850, 50Hz; 500 - 1000, 7Hz; 500 - 1200 - 500, 0.166Hz rise 1s, stable 4s, fall 1s; 800 - 1000, 2Hz; 2400 - 2850, 1Hz.	567ag/22

Certificated Products		LPCB Ref. No.
BRH-xC-Ixx	Addressable Type A Detector Base Sounder Strobe Notes: 1. x indicates body colour. Detector White, P=Pure White 2. xx indicates customer and associated communication protocol. 01 indicates Advanced Protocol (and Honeywell 500 series protocol) 00 and 02-99 indicates Advanced Protocol (and System Sensor 500 series protocol) 3. Meets the requirements of EN 54-3:2001 for the following tones: Tone 1 - Alternating 525 / 440Hz in 100ms/400ms Tone 2 - Alternating 800 / 922Hz for 1Hz Tone 3 - Alternating 800 / 922Hz for 2Hz Tone 4 - Alternating 2400 / 2900Hz for 3Hz Tone 5 - Alternating 2500 / 3100Hz for 2Hz Tone 6 - Alternating 988 / 645Hz for 2Hz Tone 7 - Continuous 630Hz Tone 8 - Continuous 922Hz Tone 9 - Continuous 1200Hz Tone 10 - Continuous 2810Hz Tone 11 - Sweep 150-1000-500Hz Rising from 500Hz to 1000Hz in 10s, Hold 100Hz for 40s Falling from 100Hz to 500Hz in 10s, Hold 500Hz for 20s Tone 12 - Intermittent 420Hz for 150ms on, 150ms off Tone 13 - Sweep 500-1200Hz Rising from 500Hz to 1200Hz in 0.25s, then 3.75s off Tone 14 - Intermittent 630Hz for 150ms on, 150ms off Tone 15 - Intermittent 922Hz for 0.25s on, 1s off Tone 16 - Intermittent 922Hz for 1s on, 1s off Tone 17 - Intermittent 2810Hz for 1Hz Tone 18 - Intermittent 922Hz for 500ms on, 500ms off Tone 19 - Intermittent 950Hz for 500ms on, 500ms off. Repeat 3 times then 1.5s off Tone 20 - Continuous 800Hz Tone 21 - Sweep 400-1200Hz Rising from 400Hz to 1200Hz in 500ms, then 500ms off. Repeat 3 times then 1.5s off Tone 22 - Sweep 1200-500Hz Falling from 1200Hz to 500Hz in 1000ms, 10ms off Tone 23 - Sweep 2400-2850Hz for 7Hz Tone 24 - Sweep 500-1200Hz Rising from 500Hz to 1200Hs in 0.5s, then 3.5s off Tone 25 - Sweep 800-970Hz for 50Hz Tone 26 - Sweep 800-970Hz for 7Hz Tone 27 - Sweep 800-970Hz for 1Hz Tone 28 - Sweep 2400-2850Hz for 50Hz Tone 29 - Sweep 500-1000Hz for 7Hz Tone 30 - Sweep 500-1200-500Hz Rising from 500Hz to 1200Hz in 1s, Hold 1200Hz for 4s Falling from 1200Hz to 500Hz in 1s Tone 31 - Sweep 800-1000Hz for 2Hz Tone 32 - Sweep 2400-2850Hz for 1Hz 4. The Ceiling mounted VAD meets the requirements of EN 54-23:2010 for the following: - Category ratings High C-3-15, Low C-3-11 & O-1-4 - Synchronization - Flash rate 0.5Hz & 1Hz - Red LED - Clear lens	567ag/23
BRS-xC-Ixx	Addressable Type A Detector Base Sounder Strobe Notes: 1. P indicates body colour. P=Pure White 2. xx indicates customer and associated communication protocol. 01 indicates Advanced Protocol (and Honeywell 500 series protocol) 00 and 02-99 indicates Advanced Protocol (and System Sensor 500 series protocol) 3. Meets the requirements of EN 54-3:2001 for the following tones: Tone 1 - Alternating 525 / 440Hz in 100ms/400ms Tone 2 - Alternating 800 / 922Hz for 1Hz Tone 3 - Alternating 800 / 922Hz for 2Hz Tone 4 - Alternating 2400 / 2900Hz for 3Hz Tone 5 - Alternating 2500 / 3100Hz for 2Hz Tone 6 - Alternating 988 / 645Hz for 2Hz Tone 7 - Continuous 630Hz Tone 8 - Continuous 922Hz Tone 9 - Continuous 1200Hz Tone 10 - Continuous 2810Hz Tone 11 - Sweep 150-1000-500Hz Rising from 500Hz to 1000Hz in 10s, Hold 100Hz for 40s Falling from 100Hz to 500Hz in 10s, Hold 500Hz for 20s	567ag/24

Certificated Products		LPCB Ref. No.
	Tone 12 - Intermittent 420Hz for 150ms on, 150ms off Tone 13 - Sweep 500-1200Hz Rising from 500Hz to 1200Hz in 0.25s, then 3.75s off Tone 14 - Intermittent 630Hz for 150ms on, 150ms off Tone 15 - Intermittent 922Hz for 0.25s on, 1s off Tone 16 - Intermittent 922Hz for 1s on, 1s off Tone 17 - Intermittent 2810Hz for 1Hz Tone 18 - Intermittent 922Hz for 500ms on, 500ms off Tone 19 - Intermittent 950Hz for 500ms on, 500ms off. Repeat 3 times then 1.5s off Tone 20 - Continuous 800Hz Tone 21 - Sweep 400-1200Hz Rising from 400Hz to 1200Hz in 500ms, then 500ms off. Repeat 3 times then 1.5s off Tone 22 - Sweep 1200-500Hz Falling from 1200Hz to 500Hz in 1000ms, 10ms off Tone 23 - Sweep 2400-2850Hz for 7Hz Tone 24 - Sweep 500-1200Hz Rising from 500Hz to 1200Hs in 0.5s, then 3.5s off Tone 25 - Sweep 800-970Hz for 50Hz Tone 26 - Sweep 800-970Hz for 7Hz Tone 27 - Sweep 800-970Hz for 1Hz Tone 28 - Sweep 2400-2850Hz for 50Hz Tone 29 - Sweep 500-1000Hz for 7Hz Tone 30 - Sweep 500-1200-500Hz Rising from 500Hz to 1200Hz in 1s, Hold 1200Hz for 4s Falling from 1200Hz to 500Hz in 1s Tone 31 - Sweep 800-1000Hz for 2Hz Tone 32 - Sweep 2400-2850Hz for 1Hz 4. The Ceiling mounted VAD meets the requirements of EN 54-23:2010 for the following: - Category ratings C-3-8.5 & O-1-3 - Synchronization - Flash rate 0.5Hz & 1Hz - Red LED - Clear lens	

Bases/ Ancillaries
B501AP Mounting base - Low profile base IP21C

A copy of the certificate, confirming the full scope of approval including notes relating to the superscript references in the above table, may be viewed online by clicking on the product name in the associated entry on www.RedBookLive.com

Certificate No: 567z-(cl-3) to EN 54-3: 2014 + A1: 2019 and EN 54-17: 2005

Visual Warning Devices

Certificated Products		LPCB Ref. No.
WSO-xx-Iyy	WSO-xx-Iyy 567z/09 Analogue addressableType A/B wall mounted sounder with short circuit isolator (B501AP-cc, Bcc bases, and Wcc bases) Notes: 1. xx indicates body colour. PR=Red, PP=Pure White 2. yy indicates customer and associated communication protocol. 01 indicates Advanced Protocol (and Honeywell 500 series protocol) 00 and 02-99 indicates Advanced Protocol (and System Sensor 500 series protocol) 3. Meets the requirements of EN54-3 for all output levels at voltage range 15-29VDC and tones: 1) 554/440, 2Hz (100ms/400ms); 2) 800/970, 1Hz; 3) 800/970, 2Hz; 4) 2400/2900, 3Hz; 5) 2500/3100, 2Hz; 6) 988/645, 2Hz; 7) 660Hz; 8) 970Hz; 9) 1200Hz; 10) 2850Hz; 11) 150-1000, rise 10s, stable 40s, fall 10s, stable 20s, then repeating; 12) 420Hz, 0.625s on, 0.625 sec off; 13) 500-1200Hz, 0.25 sec off, 3.75 sec on; 14) 660, 3.33Hz, 150ms on, 150ms off; 15) 970, 0.8Hz 0.25s on, 1s off; 16) 970, 0.5Hz 1s on, 1s off; 17) 2850, 1Hz; 18) 970, 1Hz 500ms on, 500ms off; 19) 950, 0.22Hz (0.5s on, 0.5s off) x 3, 1.5s off; 20) 800Hz; 21) 400-1200Hz, (0.5s on, 0.5s off) x 3, 1.5s off; 22) 1200 - 500Hz, 0.99Hz 1s on, 0.01s off; 23) 2400 - 2850, 7Hz; 24) 500 - 1200Hz, (0.5s off, 3.5s on); 25) 800 - 970, 50Hz; 26) 800 - 970, 7Hz; 27) 800 - 970, 1Hz; 28) 2400 - 2850, 50Hz; 29) 500 - 1000, 7Hz; 30) 500 - 1200 - 500, 0.166Hz rise 1s, stable 4s, fall 1s;	567z/09

Certificated Products		LPCB Ref. No.
	31) 800 - 1000, 2Hz; 32) 2400 - 2850, 1Hz. 4. Approved as Type B only when used with Wcc base.	
WSS-xx-Iyy	Analogue addressable Type A/B wall mounted sounder/strobe with short circuit isolator (B501AP-cc, Bcc bases, and Wcc bases) Notes: 1. xx indicates body/lens colour. PR=Red/Red, PA=Amber/Amber, PC=Clear/Clear 2. yy indicates customer and associated communication protocol. 01 indicates Advanced Protocol (and Honeywell 500 series protocol) 00 and 02-99 indicates Advanced Protocol (and System Sensor 500 series protocol) 3. Meets the requirements of EN54-3 for all output levels at voltage range 15-29VDC and tones: 1) 554/440, 2Hz (100ms/400ms); 2) 800/970, 1Hz; 3) 800/970, 2Hz; 4) 2400/2900, 3Hz; 5) 2500/3100, 2Hz; 6) 988/645, 2Hz; 7) 660Hz; 8) 970Hz; 9) 1200Hz; 10) 2850Hz; 11) 150-1000, rise 10s, stable 40s, fall 10s, stable 20s, then repeating; 12) 420Hz, 0.625s on, 0.625 sec off; 13) 500-1200Hz, 0.25 sec off, 3.75 sec on; 14) 660, 3.33Hz, 150ms on, 150ms off; 15) 970, 0.8Hz 0.25s on, 1s off; 16) 970, 0.5Hz 1s on, 1s off; 17) 2850, 1Hz; 18) 970, 1Hz 500ms on, 500ms off; 19) 950, 0.22Hz (0.5s on, 0.5s off) x 3, 1.5s off; 20) 800Hz; 21) 400-1200Hz, (0.5s on, 0.5s off) x 3, 1.5s off; 22) 1200 - 500Hz, 0.99Hz 1s on, 0.01s off; 23) 2400 - 2850, 7Hz; 24) 500 - 1200Hz, (0.5s off, 3.5s on); 25) 800 - 970, 50Hz; 26) 800 - 970, 7Hz; 27) 800 - 970, 1Hz; 28) 2400 - 2850, 50Hz; 29) 500 - 1000, 7Hz; 30) 500 - 1200 - 500, 0.166Hz rise 1s, stable 4s, fall 1s; 31) 800 - 1000, 2Hz; 32) 2400 - 2850, 1Hz. 4. Certification excludes the strobe function. 5. Approved as Type B only when used with Wcc base.	567z/10
BSO-xx-Iyy	Analogue addressable Type A integrated detector base sounder with short circuit isolator (B501AP-cc, Bcc and Wcc bases) Notes: 1. xx indicates body colour. PP=Pure White, DD=Detector White 2. yy indicates customer and associated communication protocol. 01 indicates Advanced Protocol (and Honeywell 500 series protocol) 00 and 02-99 indicates Advanced Protocol (and System Sensor 500 series protocol) 3. Meets the requirements of EN54-3 for all output levels at voltage range 15-29VDC and tones: 1) 554/440, 2Hz (100ms/400ms); 2) 800/970, 1Hz; 3) 800/970, 2Hz; 4) 2400/2900, 3Hz; 5) 2500/3100, 2Hz; 6) 988/645, 2Hz; 7) 660Hz; 8) 970Hz; 9) 1200Hz; 10) 2850Hz; 11) 150-1000, rise 10s, stable 40s, fall 10s, stable 20s, then repeating; 12) 420Hz, 0.625s on, 0.625 sec off; 13) 500-1200Hz, 0.25 sec off, 3.75 sec on; 14) 660, 3.33Hz, 150ms on, 150ms off; 15) 970, 0.8Hz 0.25s on, 1s off; 16) 970, 0.5Hz 1s on, 1s off; 17) 2850, 1Hz; 18) 970, 1Hz 500ms on, 500ms off; 19) 950, 0.22Hz (0.5s on, 0.5s off) x 3, 1.5s off; 20) 800Hz; 21) 400-1200Hz, (0.5s on, 0.5s off) x 3, 1.5s off; 22) 1200 - 500Hz, 0.99Hz 1s on, 0.01s off; 23) 2400 - 2850, 7Hz; 24) 500 - 1200Hz, (0.5s off, 3.5s on); 25) 800 - 970, 50Hz; 26) 800 - 970, 7Hz; 27) 800 - 970, 1Hz; 28) 2400 - 2850, 50Hz; 29) 500 - 1000, 7Hz; 30) 500 - 1200 - 500, 0.166Hz rise 1s, stable 4s, fall 1s; 31) 800 - 1000, 2Hz; 32) 2400 - 2850, 1Hz.	567z/11
BSS-xx-Iyy	Analogue addressable Type A integrated detector base sounder/strobe with short circuit isolator (B501AP-cc, Bcc and Wcc bases) Notes: 1. xx indicates body/lens colour. PR=Pure White/Red, PA=Pure White/Amber, PC=Pure White/Clear, DR=Detector White/Red, DA=Detector White/Amber, DC=Detector White/Clear 2. yy indicates customer and associated communication protocol. 01 indicates Advanced Protocol (and Honeywell 500 series protocol) 00 and 02-99 indicates Advanced Protocol (and System Sensor 500 series protocol) 3. Meets the requirements of EN54-3 for all output levels at voltage range 15-29VDC	567z/12

Certificated Products		LPCB Ref. No.
	and tones: 1) 554/440, 2Hz (100ms/400ms); 2) 800/970, 1Hz; 3) 800/970, 2Hz; 4) 2400/2900, 3Hz; 5) 2500/3100, 2Hz; 6) 988/645, 2Hz; 7) 660Hz; 8) 970Hz; 9) 1200Hz; 10) 2850Hz; 11) 150-1000, rise 10s, stable 40s, fall 10s, stable 20s, then repeating; 12) 420Hz, 0.625s on, 0.625 sec off; 13) 500-1200Hz, 0.25 sec off, 3.75 sec on; 14) 660, 3.33Hz, 150ms on, 150ms off; 15) 970, 0.8Hz 0.25s on, 1s off; 16) 970, 0.5Hz 1s on, 1s off; 17) 2850, 1Hz; 18) 970, 1Hz 500ms on, 500ms off; 19) 950, 0.22Hz (0.5s on, 0.5s off) x 3, 1.5s off; 20) 800Hz; 21) 400-1200Hz, (0.5s on, 0.5s off) x 3, 1.5s off; 22) 1200 - 500Hz, 0.99Hz 1s on, 0.01s off; 23) 2400 - 2850, 7Hz; 24) 500 - 1200Hz, (0.5s off, 3.5s on); 25) 800 - 970, 50Hz; 26) 800 - 970, 7Hz; 27) 800 - 970, 1Hz; 28) 2400 - 2850, 50Hz; 29) 500 - 1000, 7Hz; 30) 500 - 1200 - 500, 0.166Hz rise 1s, stable 4s, fall 1s; 31) 800 - 1000, 2Hz; 32) 2400 - 2850, 1Hz. 4. Certification excludes the strobe function.	

Bases/ Ancillaries

B501AP Mounting base - Low profile base IP21C
Bcc Deep base IP44, cc indicates colour, RR=Red, DD=Detector White, PW=Pure White
Wcc Waterproof base IP65, cc indicates colour, RR=Red, DD=Detector White, PW=Pure White

A copy of the certificate, confirming the full scope of approval including notes relating to the superscript references in the above table, may be viewed online by clicking on the product name in the associated entry on www.RedBookLive.com

Certificate No: 567aw-(cl-4) to EN 54-3: 2014 + A1: 2019

Audible Warning Devices

Certificated Products		LPCB Ref. No.
WSO-xx-Nyy	Analogue addressable Type A/B wall mounted sounder (B501AP-cc, Bcc, Wcc bases) Notes: 1. xx indicates body colour. PR=Red, PP=Pure White 2. yy indicates customer and associated communication protocol. 01 indicates Advanced Protocol (and Honeywell 500 series protocol) 00 and 02-99 indicates Advanced Protocol (and System Sensor 500 series protocol) 3. Meets the requirements of EN54-3 for all output levels at voltage range 15-32VDC and tones: 1) 554/440, 2Hz (100ms/400ms); 2) 800/970, 1Hz; 3) 800/970, 2Hz; 4) 2400/2900, 3Hz; 5) 2500/3100, 2Hz; 6) 988/645, 2Hz; 7) 660Hz; 8) 970Hz; 9) 1200Hz; 10) 2850Hz; 11) 150-1000, rise 10s, stable 40s, fall 10s, stable 20s, then repeating; 12) 420Hz, 0.625s on, 0.625 sec off; 13) 500-1200Hz, 0.25 sec off, 3.75 sec on; 14) 660, 3.33Hz, 150ms on, 150ms off; 15) 970, 0.8Hz 0.25s on, 1s off; 16) 970, 0.5Hz 1s on, 1s off; 17) 2850, 1Hz; 18) 970, 1Hz 500ms on, 500ms off; 19) 950, 0.22Hz (0.5s on, 0.5s off) x 3, 1.5s off; 20) 800Hz; 21) 400-1200Hz, (0.5s on, 0.5s off) x 3, 1.5s off; 22) 1200 - 500Hz, 0.99Hz 1s on, 0.01s off; 23) 2400 - 2850, 7Hz; 24) 500 - 1200Hz, (0.5s off, 3.5s on); 25) 800 - 970, 50Hz; 26) 800 - 970, 7Hz; 27) 800 - 970, 1Hz; 28) 2400 - 2850, 50Hz; 29) 500 - 1000, 7Hz; 30) 500 - 1200 - 500, 0.166Hz rise 1s, stable 4s, fall 1s; 31) 800 - 1000, 2Hz; 32) 2400 - 2850, 1Hz. 4. Approved as Type B only when used with Wcc base.	567aw/09
WSS-xx-Nyy	Analogue addressable Type A/B wall mounted sounder/strobe (B501AP-cc, Bcc, Wcc bases) Notes: 1. xx indicates body/lens colour. PR=Red/Red, PA=Amber/Amber, PC=Clear/Clear 2. yy indicates customer and associated communication protocol. 01 indicates Advanced Protocol (and Honeywell 500 series protocol) 00 and 02-99 indicates Advanced Protocol (and System Sensor 500 series	567aw/10

Certificated Products		LPCB Ref. No.
	protocol) 3. Meets the requirements of EN54-3 for all output levels at voltage range 15-32VDC and tones: 1) 554/440, 2Hz (100ms/400ms); 2) 800/970, 1Hz; 3) 800/970, 2Hz; 4) 2400/2900, 3Hz; 5) 2500/3100, 2Hz; 6) 988/645, 2Hz; 7) 660Hz; 8) 970Hz; 9) 1200Hz; 10) 2850Hz; 11) 150-1000, rise 10s, stable 40s, fall 10s, stable 20s, then repeating; 12) 420Hz, 0.625s on, 0.625 sec off; 13) 500-1200Hz, 0.25 sec off, 3.75 sec on; 14) 660, 3.33Hz, 150ms on, 150ms off; 15) 970, 0.8Hz 0.25s on, 1s off; 16) 970, 0.5Hz 1s on, 1s off; 17) 2850, 1Hz; 18) 970, 1Hz 500ms on, 500ms off; 19) 950, 0.22Hz (0.5s on, 0.5s off) x 3, 1.5s off; 20) 800Hz; 21) 400-1200Hz, (0.5s on, 0.5s off) x 3, 1.5s off; 22) 1200 - 500Hz, 0.99Hz 1s on, 0.01s off; 23) 2400 - 2850, 7Hz; 24) 500 - 1200Hz, (0.5s off, 3.5s on); 25) 800 - 970, 50Hz; 26) 800 - 970, 7Hz; 27) 800 - 970, 1Hz; 28) 2400 - 2850, 50Hz; 29) 500 - 1000, 7Hz; 30) 500 - 1200 - 500, 0.166Hz rise 1s, stable 4s, fall 1s; 31) 800 - 1000, 2Hz; 32) 2400 - 2850, 1Hz. 4. Certification excludes the strobe function. 5. Approved as Type B only when used with Wcc base.	
BSO-xx-Nyy	Analogue addressable Type A integrated detector base sounder (B501AP-cc, Bcc and Wcc bases) Notes: 1. xx indicates body colour. PP=Pure White, DD=Detector White 2. yy indicates customer and associated communication protocol. 01 indicates Advanced Protocol (and Honeywell 500 series protocol) 00 and 02-99 indicates Advanced Protocol (and System Sensor 500 series protocol) 3. Meets the requirements of EN54-3 for all output levels at voltage range 15-32VDC and tones: 1) 554/440, 2Hz (100ms/400ms); 2) 800/970, 1Hz; 3) 800/970, 2Hz; 4) 2400/2900, 3Hz; 5) 2500/3100, 2Hz; 6) 988/645, 2Hz; 7) 660Hz; 8) 970Hz; 9) 1200Hz; 10) 2850Hz; 11) 150-1000, rise 10s, stable 40s, fall 10s, stable 20s, then repeating; 12) 420Hz, 0.625s on, 0.625 sec off; 13) 500-1200Hz, 0.25 sec off, 3.75 sec on; 14) 660, 3.33Hz, 150ms on, 150ms off; 15) 970, 0.8Hz 0.25s on, 1s off; 16) 970, 0.5Hz 1s on, 1s off; 17) 2850, 1Hz; 18) 970, 1Hz 500ms on, 500ms off; 19) 950, 0.22Hz (0.5s on, 0.5s off) x 3, 1.5s off; 20) 800Hz; 21) 400-1200Hz, (0.5s on, 0.5s off) x 3, 1.5s off; 22) 1200 - 500Hz, 0.99Hz 1s on, 0.01s off; 23) 2400 - 2850, 7Hz; 24) 500 - 1200Hz, (0.5s off, 3.5s on); 25) 800 - 970, 50Hz; 26) 800 - 970, 7Hz; 27) 800 - 970, 1Hz; 28) 2400 - 2850, 50Hz; 29) 500 - 1000, 7Hz; 30) 500 - 1200 - 500, 0.166Hz rise 1s, stable 4s, fall 1s; 31) 800 - 1000, 2Hz; 32) 2400 - 2850, 1Hz.	567aw/11
BSS-xx-Nyy	Analogue addressable Type A integrated detector base sounder/strobe (B501AP-cc, Bcc and Wcc bases) Notes: 1. xx indicates body/lens colour. PR=Pure White/Red, PA=Pure White/Amber, PC=Pure White/Clear, DR=Detector White/Red, DA=Detector White/Amber, DC=Detector White/Clear 2. yy indicates customer and associated communication protocol. 01 indicates Advanced Protocol (and Honeywell 500 series protocol) 00 and 02-99 indicates Advanced Protocol (and System Sensor 500 series protocol) 3. Meets the requirements of EN54-3 for all output levels at voltage range 15-32VDC and tones: 1) 554/440, 2Hz (100ms/400ms); 2) 800/970, 1Hz; 3) 800/970, 2Hz; 4) 2400/2900, 3Hz; 5) 2500/3100, 2Hz; 6) 988/645, 2Hz; 7) 660Hz; 8) 970Hz; 9) 1200Hz; 10) 2850Hz; 11) 150-1000, rise 10s, stable 40s, fall 10s, stable 20s, then repeating; 12) 420Hz, 0.625s on, 0.625 sec off; 13) 500-1200Hz, 0.25 sec off, 3.75 sec on; 14) 660, 3.33Hz, 150ms on, 150ms off; 15) 970, 0.8Hz 0.25s on, 1s off; 16) 970, 0.5Hz 1s on, 1s off; 17) 2850, 1Hz; 18) 970, 1Hz 500ms on, 500ms off; 19) 950, 0.22Hz (0.5s on, 0.5s off) x 3, 1.5s off; 20) 800Hz; 21) 400-1200Hz, (0.5s on, 0.5s off) x 3, 1.5s off;	567aw/12

Certificated Products		LPCB Ref. No.

22) 1200 - 500Hz, 0.99Hz 1s on, 0.01s off; 23) 2400 - 2850, 7Hz;
24) 500 - 1200Hz, (0.5s off, 3.5s on);
25) 800 - 970, 50Hz; 26) 800 - 970, 7Hz;
27) 800 - 970, 1Hz; 28) 2400 - 2850, 50Hz;
29) 500 - 1000, 7Hz;
30) 500 - 1200 - 500, 0.166Hz rise 1s, stable 4s, fall 1s;
31) 800 - 1000, 2Hz; 32) 2400 - 2850, 1Hz.

4. Certification excludes the strobe function.

Bases/ Ancillaries
B501AP Mounting base - Low profile base IP21C
Bcc Deep base IP44, cc indicates colour, RR=Red, DD=Detector White, PW=Pure White
Wcc Waterproof base IP65, cc indicates colour, RR=Red, DD=Detector White, PW=Pure White

A copy of the certificate, confirming the full scope of approval including notes relating to the superscript references in the above table, may be viewed online by clicking on the product name in the associated entry on www.RedBookLive.com

---

Horing LIH Industrial Co Ltd

No. 35, Er-Hu Road, Hu-Hsi Village, Yuan-Shan Hsiang, Yilan Hsien 264, Taiwan ROC
Tel: +886 2 22487599 • Fax: +886 2 22407752

Certificate No: 506e to EN 54-3:2014 + A1:2019

Certificated Products		LPCB Ref. No.
AH-0218	Conventional Fire Alarm Bell	506e/01
AH-03127S	Conventional Type B Electronic Sounder (AH-03127MB Base) *Note:* *Meets the requirements of EN 54-3 at the following tones:* *1-Alternating Tones 800/970Hz at 2Hz* *2-Sweeping 800/970Hz at 7Hz*	506e/02
AH-03127-BS	Conventional Type B Electronic Sounder Beacon (AH-03127MB Base) *Notes:* *1. Meets the requirements of EN 54-3 at the following tones:* *1-Alternating Tones 800/970Hz at 2Hz* *2-Sweeping 800/970Hz at 7Hz* *2. The beacon functionality is not included within the scope of approval.*	506e/03
NQ1318	Fire Alarm Bell	506e/04

Base:
AH-03127MB

A copy of the certificate, confirming the full scope of approval including notes relating to the superscript references in the above table, may be viewed online by clicking on the product name in the associated entry on www.RedBookLive.com

---

Hosiden Besson Limited

12 St Joseph's Close Trading Estate, St Joseph's Close, Hove, East Sussex BN3 7EZ, United Kingdom
Tel: +44 (0)1273 860000 • Fax: +44 (0)1273 777501
E-mail: info@hbl.co.uk • Website: www.hbl.co.uk

Certificate No: 539c to EN 54-3:2014 + A1:2019

Certificated Products		LPCB Ref. No.
Banshee Excel	Banshee Excel Audible Warning Device Notes: 1. Type A with Shallow Base, Type B with Deep Base 2. Meets the requirements of EN 54-3:2001 with the following tones: - Tone A, Banshee Fast Sweep LF, 800Hz to 950Hz @ 9Hz - Tone B, Medium Sweep LF, 800Hz to 970Hz @ 1Hz - Tone C, Slow Whoop, 500Hz rising to 1200Hz over 3.5s, silence 0.5s - Tone D, DIN Tone (DK), 1200Hz falling to 500Hz over 1s, silence 10ms - Tone E, French Fire Sounder, 554Hz for 100ms and 440Hz for 400ms	539c/01

Certificated Products		LPCB Ref. No.
Banshee Excel Bi-Polar	Banshee Excel Audible Warning Device Notes: 1. Approved to Type A Indoor only with Shallow Base 2. Meets the requirements of EN 54-3:2001 with the following tones: - Tone A, Banshee Fast Sweep LF, 800Hz to 950Hz @ 9Hz - Tone B, Medium Sweep LF, 800Hz to 970Hz @ 1Hz - Tone C, Slow Whoop, 500Hz rising to 1200Hz over 3.5s, silence 0.5s - Tone D, DIN Tone (DK), 1200Hz falling to 500Hz over 1s, silence 10ms - Tone E, French Fire Sounder, 554Hz for 100ms and 440Hz for 400ms	539c/02
Banshee Excel Lite	Banshee Excel Lite Xenon Audible Warning Device Notes: 1. Type A with Shallow Base, Type B with Deep Base 2. Meets the requirements of EN 54-3:2001 with the following tones: - Tone A, Banshee Fast Sweep LF, 800Hz to 950Hz @ 9Hz - Tone B, Medium Sweep LF, 800Hz to 970Hz @ 1Hz - Tone C, Slow Whoop, 500Hz rising to 1200Hz over 3.5s, silence 0.5s - Tone D, DIN Tone (DK), 1200Hz falling to 500Hz over 1s, silence 10ms - Tone E, French Fire Sounder, 554Hz for 100ms and 440Hz for 400ms	539c/03
LED Banshee Excel Lite	Banshee Excel Lite LED Audible Warning Device Notes: 1. Type A with Shallow Base, Type B with Deep Base 2. Meets the requirements of EN 54-3:2001 with the following tones: - Tone A, Banshee Fast Sweep LF, 800Hz to 950Hz @ 9Hz - Tone B, Medium Sweep LF, 800Hz to 970Hz @ 1Hz - Tone C, Slow Whoop, 500Hz rising to 1200Hz over 3.5s, silence 0.5s - Tone D, DIN Tone (DK), 1200Hz falling to 500Hz over 1s, silence 10ms - Tone E, French Fire Sounder, 554Hz for 100ms and 440Hz for 400ms	539c/04

Bases:
Shallow base (various colour options)
Deep base (various colour options)
A copy of the certificate, confirming the full scope of approval including notes relating to the superscript references in the above table, may be viewed online by clicking on the product name in the associated entry on www.RedBookLive.com

---

Hyfire Wireless Fire Solutions Limited

Unit B12a, Holly Farm Business Park, Honiley, Warwickshire CV8 1NP, United Kingdom
Tel: +44(0)1926485282 • Fax: +44(0)1926485090
E-mail: info@hyfirewireless.co.uk • Website: www.hyfirewireless.com

Certificate No: 928w-(cl-2) to EN 54-3:2001 + A1:2002 + A2:2006

Audible Warning Devices

Certificated Products		LPCB Ref. No.
HFI-ABS-05	Altair Addressable Type A Sounder Base *Notes:* *1. Meets the requirements of EN 54-3 at the following tone settings:* *Tone 1 - Dual Tone 800Hz and 960Hz, 250ms-250ms* *Tone 2 Continuous Tone, 1000Hz, Steady* *Tone 4 Slow Whoop, 500-1200Hz, 3500ms Sweep, 500ms OFF* *Tone 5 Sweep (DIN) Tone, 1200-500Hz, 1s sweep (1Hz)* *2. Cover plate (LID100-AL/W or AL/R)*	928w/05
HFI-ABSB-05	Altair Addressable Type A Sounder Beacon Base *Notes:* *1. Meets the requirements of EN 54-3 at the following tone settings:* *Tone 1 - Dual Tone 800Hz and 960Hz, 250ms-250ms* *Tone 2 Continuous Tone, 1000Hz, Steady* *Tone 4 Slow Whoop, 500-1200Hz, 3500ms Sweep, 500ms OFF* *Tone 5 Sweep (DIN) Tone, 1200-500Hz, 1s sweep (1Hz)* *2. The beacon function is not included within the scope of this approval* *3. Cover plate (LID100-AL/W or AL/R)*	928w/06
HFC-WSR-03	Conventional Type A/B (indoor/outdoor) Wall Sounder (Red Body) *Notes:* *1. Meets the requirements of EN 54-3 at the following tone settings:* *Tone 1 - Warble Tone 800Hz for 500ms, then 1000Hz for 500ms* *Tone 2 - Continuous Tone, 970Hz* *Tone 3 - Slow Whoop (Dutch), 500-1200Hz for 3500ms, then off for 500ms*	928w/07

Certificated Products		LPCB Ref. No.
	Tone 4 - German DIN Tone, 1200-500Hz swept every 1000ms (1Hz)	
HFC-WSW-03	Conventional Type A/B (indoor/outdoor) Wall Sounder (White Body) *Notes:* *1. Meets the requirements of EN 54-3 at the following tone settings:* *Tone 1 - Warble Tone 800Hz for 500ms, then 1000Hz for 500ms* *Tone 2 - Continuous Tone, 970Hz* *Tone 3 - Slow Whoop (Dutch), 500-1200Hz for 3500ms, then off for 500ms* *Tone 4 - German DIN Tone, 1200-500Hz swept every 1000ms (1Hz)*	928w/07

Ancillaries

HFI-SIM-01	Addressable module with short circuit isolator

A copy of the certificate, confirming the full scope of approval including notes relating to the superscript references in the above table, may be viewed online by clicking on the product name in the associated entry on www.RedBookLive.com

Certificate No: 928y-(cl-2) to EN 54-3:2001 + A1:2002 + A2:2006; EN 54-23:2010

Visual & Audible Warning Devices

Certificated Products		LPCB Ref. No.
HFC-SBR-23-03	Conventional Type A/B (indoor/outdoor) Wall Sounder and Visual Alarm Device (Red Body) *Notes:* *1. Meets the requirements of EN 54-3 at the following tone settings:* *Tone 1 - Warble Tone 800Hz for 500ms, then 1000Hz for 500ms* *Tone 2 - Continuous Tone, 970Hz* *Tone 3 - Slow Whoop (Dutch), 500-1200Hz for 3500ms, then off for 500ms* *Tone 4 - German DIN Tone, 1200-500Hz swept every 1000ms (1Hz)* *2. The wall mounted VAD meets the requirements of EN 54-23 for the following:* *- Category W-2.5-7* *- Flash rate - 0.5Hz* *- Synchronization*	928y/01
HFC-SBW-23-03	Conventional Type A/B (indoor/outdoor) Wall Sounder and Visual Alarm Device (White Body) *Notes:* *1. Meets the requirements of EN 54-3 at the following tone settings:* *Tone 1 - Warble Tone 800Hz for 500ms, then 1000Hz for 500ms* *Tone 2 Continuous Tone, 970Hz* *Tone 3 Slow Whoop (Dutch), 500-1200Hz for 3500ms, then off for 500ms* *Tone 4 German DIN Tone, 1200-500Hz swept every 1000ms (1Hz)* *2. The wall mounted VAD meets the requirements of EN 54-23 for the following:* *- Category W-2.5-7* *- Flash rate - 0.5Hz* *- Synchronization*	928y/01

Ancillaries

HFI-SIM-01	Addressable module with short circuit isolator

A copy of the certificate, confirming the full scope of approval including notes relating to the superscript references in the above table, may be viewed online by clicking on the product name in the associated entry on www.RedBookLive.com

Certificate No: 928ah-(cl-2) to EN 54-3:2001+A1:2002+A2:2006, EN 54-17:2005, EN 54-18:2005

Certificated Products		LPCB Ref. No.
HFC-WSR-03+ HFI-SIM-01	Altair Addressable Type A/B (indoor/outdoor) Wall Sounder with Short Circuit Isolator (Red Body) Notes: 1. Meets the requirements of EN 54-3 at the following tone settings: Tone 1 - Warble Tone 800Hz for 500ms, then 1000Hz for 500ms Tone 2 Continuous Tone, 970Hz Tone 3 Slow Whoop (Dutch), 500-1200Hz for 3500ms, then off for 500ms Tone 4 German DIN Tone, 1200-500Hz swept every 1000ms (1Hz) 2.Device is only addressable when used in conjunction with HFI-SIM-01	928ah/01
HFC-WSW-03+ HFI-SIM-01	Altair Addressable Type A/B (indoor/outdoor) Wall Sounder with Short Circuit Isolator (White Body) Notes: 1. Meets the requirements of EN 54-3 at the following tone settings: Tone 1 - Warble Tone 800Hz for 500ms, then 1000Hz for 500ms	928ah/01

Certificated Products		LPCB Ref. No.
	Tone 2 Continuous Tone, 970Hz Tone 3 Slow Whoop (Dutch), 500-1200Hz for 3500ms, then off for 500ms Tone 4 German DIN Tone, 1200-500Hz swept every 1000ms (1Hz) 2.Device is only addressable when used in conjunction with HFI-SIM-01	

Ancillaries

HFI-SIM-01 Addressable module with short circuit isolator

A copy of the certificate, confirming the full scope of approval including notes relating to the superscript references in the above table, may be viewed online by clicking on the product name in the associated entry on www.RedBookLive.com

Certificate No: 928z-(cl-2) to EN 54-3:2001+A1:2002+A2:2006, EN 54-17:2005, EN 54-18:2005, EN 54-23:2010

Certificated Products		LPCB Ref. No.
HFC-SBR-23-03 + HFI-SIM-01	Altair Addressable Type A/B (indoor/outdoor) Wall Sounder and Visual Alarm Device with Short Circuit Isolator (Red Body) Notes: 1. Meets the requirements of EN 54-3 at the following tone settings: Tone 1 - Warble Tone 800Hz for 500ms, then 1000Hz for 500ms Tone 2 Continuous Tone, 970Hz Tone 3 Slow Whoop (Dutch), 500-1200Hz for 3500ms, then off for 500ms Tone 4 German DIN Tone, 1200-500Hz swept every 1000ms (1Hz) 2. The wall mounted VAD meets the requirements of EN 54-23 for the following: - Category W-2.5-7 - Flash rate 0.5Hz - Synchronization 3. Device is only addressable when used in conjunction with HFI-SIM-01	928z/01
HFC-SBW-23-03 + HFI-SIM-01	Altair Addressable Type A/B (indoor/outdoor) Wall Sounder and Visual Alarm Device with Short Circuit Isolator (White Body) Notes: 1. Meets the requirements of EN 54-3 at the following tone settings: Tone 1 - Warble Tone 800Hz for 500ms, then 1000Hz for 500ms Tone 2 Continuous Tone, 970Hz Tone 3 Slow Whoop (Dutch), 500-1200Hz for 3500ms, then off for 500ms Tone 4 German DIN Tone, 1200-500Hz swept every 1000ms (1Hz) 2. The wall mounted VAD meets the requirements of EN 54-23 for the following: - Category W-2.5-7 - Flash rate 0.5Hz - Synchronization 3. Device is only addressable when used in conjunction with HFI-SIM-01	928z/01

Ancillaries

HFI-SIM-01 Addressable module with short circuit isolator

A copy of the certificate, confirming the full scope of approval including notes relating to the superscript references in the above table, may be viewed online by clicking on the product name in the associated entry on www.RedBookLive.com

---

KAC Alarm Company Limited

Honeywell House, Skimped Hill Lane, Bracknell, Berkshire RG12 1EB, United Kingdom
Tel: +44 (0)1527 406655 • Fax: +44 (0)1527 406677
E-mail: sales@kac.co.uk OR marketing@kac.co.uk • Website: www.kac.co.uk

Certificate No: 567aw-(cl-1) to EN 54-3: 2014 + A1:2019

Audible Warning Devices

Certificated Products		LPCB Ref. No.
DBS1224B4W	Conventional Type A wall mounted sounder *Note: Meets the requirements of EN54-3 for all tones and output levels at voltage ranges 10-14 VDC and 21-27 VDC*	567aw/01
DBS1224B4W-D	4 Tone Type A conventional ceiling mounting sounder, white *Note:* *Meets the requirements of EN 54-3 at all output levels, and voltage*	567aw/02

Certificated Products		LPCB Ref. No.
	ranges of 10-14 VDC and 19.5-28 VDC for the following tones: *1 - Falling 1200Hz-500Hz over 3.5s followed by 0.5s silence* *2 - 800Hz continuous* *3 - 500Hz-1200Hz slow whoop* *4 - Falling 1200Hz-500Hz over 3.5s followed by 0.5s silence*	
CWSO-RR-YY	Conventional Sounder Notes:1. Type A with CSR shallow back box, Type B with CWR deep back box 2. RR indicates red body 3. YY indicates mounting option. Where S1 = shallow base (standard fix) Where S2 = shallow base (first fix) Where W1 = deep back box (standard fix) Where W2 = deep back box (first fix) 4. Meets the requirements of EN54-3: 2001 for the following tones: 1) 554/440, 2Hz (100ms/400ms); 2) 800/970, 1Hz; 3) 800/970, 2Hz; 4) 2400/2900, 3Hz; 5) 2500/3100, 2Hz; 6) 988/645, 2Hz; 7) 660Hz; 8) 970Hz; 9) 1200Hz; 10) 2850Hz; 11) 2400Hz, alternating between frequencies 2400Hz, 3100Hz & 988Hz 12) 420Hz, 0.625s on, 0.625 sec off; 13) 500-1200Hz, 0.25 sec off, 3.75 sec on; 14) 660, 3.33Hz, 150ms on, 150ms off; 15) 970, 0.8Hz 0.25s on, 1s off; 16) 970, 0.5Hz 1s on, 1s off; 17) 2850, 1Hz; 18) 970, 1Hz 500ms on, 500ms off; 19) 950, 0.22Hz (0.5s on, 0.5s off) x 3, 1.5s off; 20) 800Hz; 21) 400-1200Hz, (0.5s on, 0.5s off) x 3, 1.5s off; 22) 1200 - 500Hz, 0.99Hz 1s on, 0.01s off; 23) 2400 - 2850, 7Hz; 24) 500 - 1200Hz, (0.5s off, 3.5s on); 25) 800 - 970, 50Hz; 26) 800 - 970, 7Hz; 27) 800 - 970, 1Hz; 28) 2400 - 2850, 50Hz; 29) 500 - 1000, 7Hz; 30) 500 - 1200 - 500, 0.166Hz rise 1s, stable 4s, fall 1s; 31) 800 - 1000, 2Hz; 32) 2400 - 2850, 1Hz;	567aw/03
CWSO-WW-YY	Conventional Sounder Notes: 1. Type A with CSW shallow back box, Type B with CWW deep back box 2. WW indicates white body 3. YY indicates mounting option. Where S1 = shallow base (standard fix) Where S2 = shallow base (first fix) Where W1 = deep back box (standard fix) Where W2 = deep back box (first fix) 4. Meets the requirements of EN54-3: 2001 for the following tones: 1) 554/440, 2Hz (100ms/400ms); 2) 800/970, 1Hz; 3) 800/970, 2Hz; 4) 2400/2900, 3Hz; 5) 2500/3100, 2Hz; 6) 988/645, 2Hz; 7) 660Hz; 8) 970Hz; 9) 1200Hz; 10) 2850Hz; 11) 2400Hz, alternating between frequencies 2400Hz, 3100Hz & 988Hz 12) 420Hz, 0.625s on, 0.625 sec off; 13) 500-1200Hz, 0.25 sec off, 3.75 sec on; 14) 660, 3.33Hz, 150ms on, 150ms off; 15) 970, 0.8Hz 0.25s on, 1s off; 16) 970, 0.5Hz 1s on, 1s off;	567aw/04

Certificated Products		LPCB Ref. No.
	17) 2850, 1Hz; 18) 970, 1Hz 500ms on, 500ms off; 19) 950, 0.22Hz (0.5s on, 0.5s off) x 3, 1.5s off; 20) 800Hz; 21) 400-1200Hz, (0.5s on, 0.5s off) x 3, 1.5s off; 22) 1200 - 500Hz, 0.99Hz 1s on, 0.01s off; 23) 2400 - 2850, 7Hz; 24) 500 - 1200Hz, (0.5s off, 3.5s on); 25) 800 - 970, 50Hz; 26) 800 - 970, 7Hz; 27) 800 - 970, 1Hz; 28) 2400 - 2850, 50Hz; 29) 500 - 1000, 7Hz; 30) 500 - 1200 - 500, 0.166Hz rise 1s, stable 4s, fall 1s; 31) 800 - 1000, 2Hz; 32) 2400 - 2850, 1Hz;	
CWSS-RA-YY	Conventional Sounder Beacon Notes: 1. Type A with CSR shallow back box, Type B with CWR deep back box 2. The beacon function is not included in the scope of the approval 3. RA indicates red body / amber lens + red LED 4. YY indicates mounting option. Where S7 = shallow base (standard fix) Where S8 = shallow base (first fix) Where W7 = deep back box (standard fix) Where W8 = deep back box (first fix) 5. Meets the requirements of EN54-3: 2001 for the following tones: 1) 554/440, 2Hz (100ms/400ms); 2) 800/970, 1Hz; 3) 800/970, 2Hz; 4) 2400/2900, 3Hz; 5) 2500/3100, 2Hz; 6) 988/645, 2Hz; 7) 660Hz; 8) 970Hz; 9) 1200Hz; 10) 2850Hz; 11) 2400Hz, alternating between frequencies 2400Hz, 3100Hz & 988Hz 12) 420Hz, 0.625s on, 0.625 sec off; 13) 500-1200Hz, 0.25 sec off, 3.75 sec on; 14) 660, 3.33Hz, 150ms on, 150ms off; 15) 970, 0.8Hz 0.25s on, 1s off; 16) 970, 0.5Hz 1s on, 1s off; 17) 2850, 1Hz; 18) 970, 1Hz 500ms on, 500ms off; 19) 950, 0.22Hz (0.5s on, 0.5s off) x 3, 1.5s off; 20) 800Hz; 21) 400-1200Hz, (0.5s on, 0.5s off) x 3, 1.5s off; 22) 1200 - 500Hz, 0.99Hz 1s on, 0.01s off; 23) 2400 - 2850, 7Hz; 24) 500 - 1200Hz, (0.5s off, 3.5s on); 25) 800 - 970, 50Hz; 26) 800 - 970, 7Hz; 27) 800 - 970, 1Hz; 28) 2400 - 2850, 50Hz; 29) 500 - 1000, 7Hz; 30) 500 - 1200 - 500, 0.166Hz rise 1s, stable 4s, fall 1s; 31) 800 - 1000, 2Hz; 32) 2400 - 2850, 1Hz;	567aw/05
CWSS-WA-YY	Conventional Sounder Beacon Notes: 1. Type A with CSW shallow back box, Type B with CWW deep back box 2. The beacon function is not included in the scope of the approval 3. WA indicates white body / amber lens + red LED 4. YY indicates mounting option. Where S7 = shallow base (standard fix) Where S8 = shallow base (first fix) Where W7 = deep back box (standard fix) Where W8 = deep back box (first fix) 5. Meets the requirements of EN54-3: 2001 for the following tones: 1) 554/440, 2Hz (100ms/400ms); 2) 800/970, 1Hz;	567aw/06

Certificated Products		LPCB Ref. No.
	3) 800/970, 2Hz; 4) 2400/2900, 3Hz; 5) 2500/3100, 2Hz; 6) 988/645, 2Hz; 7) 660Hz; 8) 970Hz; 9) 1200Hz; 10) 2850Hz; 11) 2400Hz, alternating between frequencies 2400Hz, 3100Hz & 988Hz 12) 420Hz, 0.625s on, 0.625 sec off; 13) 500-1200Hz, 0.25 sec off, 3.75 sec on; 14) 660, 3.33Hz, 150ms on, 150ms off; 15) 970, 0.8Hz 0.25s on, 1s off; 16) 970, 0.5Hz 1s on, 1s off; 17) 2850, 1Hz; 18) 970, 1Hz 500ms on, 500ms off; 19) 950, 0.22Hz (0.5s on, 0.5s off) x 3, 1.5s off; 20) 800Hz; 21) 400-1200Hz, (0.5s on, 0.5s off) x 3, 1.5s off; 22) 1200 - 500Hz, 0.99Hz 1s on, 0.01s off; 23) 2400 - 2850, 7Hz; 24) 500 - 1200Hz, (0.5s off, 3.5s on); 25) 800 - 970, 50Hz; 26) 800 - 970, 7Hz; 27) 800 - 970, 1Hz; 28) 2400 - 2850, 50Hz; 29) 500 - 1000, 7Hz; 30) 500 - 1200 - 500, 0.166Hz rise 1s, stable 4s, fall 1s; 31) 800 - 1000, 2Hz; 32) 2400 - 2850, 1Hz;	
CWSS-RB-YY	Conventional Sounder Beacon Notes: 1. Type A with CSR shallow back box, Type B with CWR deep back box 2. The beacon function is not included in the scope of the approval 3. RB indicates red body / red lens + red LED 4. YY indicates mounting option. Where S7 = shallow base (standard fix) Where S8 = shallow base (first fix) Where W7 = deep back box (standard fix) Where W8 = deep back box (first fix) 5. Meets the requirements of EN54-3: 2001 for the following tones: 1) 554/440, 2Hz (100ms/400ms); 2) 800/970, 1Hz; 3) 800/970, 2Hz; 4) 2400/2900, 3Hz; 5) 2500/3100, 2Hz; 6) 988/645, 2Hz; 7) 660Hz; 8) 970Hz; 9) 1200Hz; 10) 2850Hz; 11) 2400Hz, alternating between frequencies 2400Hz, 3100Hz & 988Hz 12) 420Hz, 0.625s on, 0.625 sec off; 13) 500-1200Hz, 0.25 sec off, 3.75 sec on; 14) 660, 3.33Hz, 150ms on, 150ms off; 15) 970, 0.8Hz 0.25s on, 1s off; 16) 970, 0.5Hz 1s on, 1s off; 17) 2850, 1Hz; 18) 970, 1Hz 500ms on, 500ms off; 19) 950, 0.22Hz (0.5s on, 0.5s off) x 3, 1.5s off; 20) 800Hz; 21) 400-1200Hz, (0.5s on, 0.5s off) x 3, 1.5s off; 22) 1200 - 500Hz, 0.99Hz 1s on, 0.01s off; 23) 2400 - 2850, 7Hz; 24) 500 - 1200Hz, (0.5s off, 3.5s on); 25) 800 - 970, 50Hz; 26) 800 - 970, 7Hz; 27) 800 - 970, 1Hz; 28) 2400 - 2850, 50Hz; 29) 500 - 1000, 7Hz; 30) 500 - 1200 - 500, 0.166Hz rise 1s, stable 4s, fall 1s; 31) 800 - 1000, 2Hz;	567aw/07

Certificated Products		LPCB Ref. No.
	32) 2400 - 2850, 1Hz;	
CWSS-WB-YY	Conventional Sounder Beacon Notes: 1. Type A with CSW shallow back box, Type B with CWW deep back box 2. The beacon function is not included in the scope of the approval 3. WB indicates white body / red lens + red LED 4. YY indicates mounting option. Where S7 = shallow base (standard fix) Where S8 = shallow base (first fix) Where W7 = deep back box (standard fix) Where W8 = deep back box (first fix) 4. Meets the requirements of EN54-3: 2001 for the following tones: 1) 554/440, 2Hz (100ms/400ms); 2) 800/970, 1Hz; 3) 800/970, 2Hz; 4) 2400/2900, 3Hz; 5) 2500/3100, 2Hz; 6) 988/645, 2Hz; 7) 660Hz; 8) 970Hz; 9) 1200Hz; 10) 2850Hz; 11) 2400Hz, alternating between frequencies 2400Hz, 3100Hz & 988Hz 12) 420Hz, 0.625s on, 0.625 sec off; 13) 500-1200Hz, 0.25 sec off, 3.75 sec on; 14) 660, 3.33Hz, 150ms on, 150ms off; 15) 970, 0.8Hz 0.25s on, 1s off; 16) 970, 0.5Hz 1s on, 1s off; 17) 2850, 1Hz; 18) 970, 1Hz 500ms on, 500ms off; 19) 950, 0.22Hz (0.5s on, 0.5s off) x 3, 1.5s off; 20) 800Hz; 21) 400-1200Hz, (0.5s on, 0.5s off) x 3, 1.5s off; 22) 1200 - 500Hz, 0.99Hz 1s on, 0.01s off; 23) 2400 - 2850, 7Hz; 24) 500 - 1200Hz, (0.5s off, 3.5s on); 25) 800 - 970, 50Hz; 26) 800 - 970, 7Hz; 27) 800 - 970, 1Hz; 28) 2400 - 2850, 50Hz; 29) 500 - 1000, 7Hz; 30) 500 - 1200 - 500, 0.166Hz rise 1s, stable 4s, fall 1s; 31) 800 - 1000, 2Hz; 32) 2400 - 2850, 1Hz;	567aw/08

Bases:

B501AP Mounting base - Low profile base IP21C
Bcc Deep Back Box
Wcc Waterproof Deep Back Box IP33C
CSW 19mm shallow back box - white IP21C
CSR 19mm shallow back box - red IP21C
CWW 45mm deep back box - white IP33C
CWR 45mm deep back box - red IP33C

A copy of the certificate, confirming the full scope of approval including notes relating to the superscript references in the above table, may be viewed online by clicking on the product name in the associated entry on www.RedBookLive.com

Certificate No: 567ax-(cl-1) to EN 54-23:2010

Visual Warning Devices

Certificated Products		LPCB Ref. No.
CWST-WW-YY	Notes: 1. The ceiling / wall mounted VAD meets the requirements of EN 54-23: 2010 for the following categories (light pattern details): - Category W: W-2.4-9 - Category C: C-3-9.5, C-6-9.5, C-9-9.5 - Flash rate 0.5Hz - Synchronization 2. Type A with CSW shallow back box, Type B with CWW deep back box	567ax/01

Certificated Products		LPCB Ref. No.
	3. WW indicates white body / white LED 4. YY indicates mounting option. Where S5 = shallow back box (standard fix) Where S6 = shallow back box (first fix) Where W5 = deep back box (standard fix) Where W6 = deep back box (first fix)	
CWST-RR-YY	Conventional beacon Notes: 1. The ceiling / wall mounted VAD meets the requirements of EN 54-23: 2010 for the following categories (light pattern details): - Category W: W-2.4-6.7 - Category C: C-3-9.4, C-6-8.2 - Flash rate 0.5Hz - Synchronization 2. Type A with CSR shallow back box, Type B with CWR deep back box 3. RR indicates red body / red LED 4. YY indicates mounting option. Where S5 = shallow back box (standard fix) Where S6 = shallow back box (first fix) Where W5 = deep back box (standard fix) Where W6 = deep back box (first fix)	567ax/02
CWST-WR-YY	Conventional beacon Notes: 1. The ceiling / wall mounted VAD meets the requirements of EN 54-23: 2010 for the following categories (light pattern details): - Category W: W-2.4-6.2 - Category C: C-3-9.4, C-6-8.2 - Flash rate 0.5Hz - Synchronization 2. Type A with CSW shallow back box, Type B with CWW deep back box 3. WR indicates white body / red LED 4. YY indicates mounting option. Where S5 = shallow back box (standard fix) Where S6 = shallow back box (first fix) Where W5 = deep back box (standard fix) Where W6 = deep back box (first fix)	567ax/03
CWST-RW-YY	Conventional beacon Notes: 1. The ceiling / wall mounted VAD meets the requirements of EN 54-23: 2010 for the following categories (light pattern details): - Category W: W-2.4-9 - Category C: C-3-9.5, C-6-9.5, C-9-9.5 - Flash rate 0.5Hz - Synchronization 2. Type A with CSR shallow back box, Type B with CWR deep back box 3. RW indicates red body / white LED 4. YY indicates mounting option. Where S5 = shallow back box (standard fix) Where S6 = shallow back box (first fix) Where W5 = deep back box (standard fix) Where W6 = deep back box (first fix)	567ax/04

Bases

B501AP Mounting base - Low profile base IP21C
Bcc Deep Back Box
Wcc Waterproof Deep Back Box IP33C
CSW 19mm shallow back box - white IP21C
CSR 19mm shallow back box - red IP21C
CWW 45mm deep back box - white IP33C
CWR 45mm deep back box - red IP33C

A copy of the certificate, confirming the full scope of approval including notes relating to the superscript references in the above table, may be viewed online by clicking on the product name in the associated entry on www.RedBookLive.com

Certificate No: 567ay-(cl-1) to EN 54-3: 2014 + A1:2019 & EN 54-23:2010

Visual & Audible Warning Devices

Certificated Products		LPCB Ref. No.
CWSS-WW-YY	Conventional sounder beacon Notes:	567ay/01

Certificated Products		LPCB Ref. No.
	1. The ceiling / wall mounted VAD meets the requirements of EN 54-23: 2010 for the following categories (light pattern details): - Category W: W-2.4-8.9, - Category C: C-3-10, C-6-10 - Flash rate 0.5Hz - Synchronization 2. Type A with CSW shallow back box, Type B with CWW deep back box 3. WW indicates white body / white LED 4. YY indicates mounting option. Where S5 = shallow back box (standard fix) Where S6 = shallow back box (first fix) Where W5 = deep back box (standard fix) Where W6 = deep back box (first fix) 5. Meets the requirements of EN54-3: 2001 for the following tones: 1) 554/440, 2Hz (100ms/400ms); 2) 800/970, 1Hz; 3) 800/970, 2Hz; 4) 2400/2900, 3Hz; 5) 2500/3100, 2Hz; 6) 988/645, 2Hz; 7) 660Hz; 8) 970Hz; 9) 1200Hz; 10) 2850Hz; 11) 2400Hz, alternating between frequencies 2400Hz, 3100Hz & 988Hz 12) 420Hz, 0.625s on, 0.625 sec off; 13) 500-1200Hz, 0.25 sec off, 3.75 sec on; 14) 660, 3.33Hz, 150ms on, 150ms off; 15) 970, 0.8Hz 0.25s on, 1s off; 16) 970, 0.5Hz 1s on, 1s off; 17) 2850, 1Hz; 18) 970, 1Hz 500ms on, 500ms off; 19) 950, 0.22Hz (0.5s on, 0.5s off) x 3, 1.5s off; 20) 800Hz; 21) 400-1200Hz, (0.5s on, 0.5s off) x 3, 1.5s off; 22) 1200 - 500Hz, 0.99Hz 1s on, 0.01s off; 23) 2400 - 2850, 7Hz; 24) 500 - 1200Hz, (0.5s off, 3.5s on); 25) 800 - 970, 50Hz; 26) 800 - 970, 7Hz; 27) 800 - 970, 1Hz; 28) 2400 - 2850, 50Hz; 29) 500 - 1000, 7Hz; 30) 500 - 1200 - 500, 0.166Hz rise 1s, stable 4s, fall 1s; 31) 800 - 1000, 2Hz; 32) 2400 - 2850, 1Hz	
CWSS-RR-YY	Conventional sounder beacon Notes: 1. The ceiling / wall mounted VAD meets the requirements of EN 54-23: 2010 for the following categories (light pattern details): - Category W: W-2.4-6.8 - Category C: C-3-8.9, C-6-8.2 - Flash rate 0.5Hz - Synchronization 2. Type A with CSR shallow back box, Type B with CWR deep back box 3. RR indicates red body / red LED 4. YY indicates mounting option. Where S5 = shallow back box (standard fix) Where S6 = shallow back box (first fix) Where W5 = deep back box (standard fix) Where W6 = deep back box (first fix) 5. Meets the requirements of EN54-3: 2001 for the following tones: 1) 554/440, 2Hz (100ms/400ms); 2) 800/970, 1Hz; 3) 800/970, 2Hz; 4) 2400/2900, 3Hz; 5) 2500/3100, 2Hz; 6) 988/645, 2Hz; 7) 660Hz; 8) 970Hz; 9) 1200Hz; 10) 2850Hz;	567ay/02

Certificated Products		LPCB Ref. No.
	11) 2400Hz, alternating between frequencies 2400Hz, 3100Hz & 988Hz 12) 420Hz, 0.625s on, 0.625 sec off; 13) 500-1200Hz, 0.25 sec off, 3.75 sec on; 14) 660, 3.33Hz, 150ms on, 150ms off; 15) 970, 0.8Hz 0.25s on, 1s off; 16) 970, 0.5Hz 1s on, 1s off; 17) 2850, 1Hz; 18) 970, 1Hz 500ms on, 500ms off; 19) 950, 0.22Hz (0.5s on, 0.5s off) x 3, 1.5s off; 20) 800Hz; 21) 400-1200Hz, (0.5s on, 0.5s off) x 3, 1.5s off; 22) 1200 - 500Hz, 0.99Hz 1s on, 0.01s off; 23) 2400 - 2850, 7Hz; 24) 500 - 1200Hz, (0.5s off, 3.5s on); 25) 800 - 970, 50Hz; 26) 800 - 970, 7Hz; 27) 800 - 970, 1Hz; 28) 2400 - 2850, 50Hz; 29) 500 - 1000, 7Hz; 30) 500 - 1200 - 500, 0.166Hz rise 1s, stable 4s, fall 1s; 31) 800 - 1000, 2Hz; 32) 2400 - 2850, 1Hz	
CWSS-WR-YY	Conventional sounder beacon Notes: 1. The ceiling / wall mounted VAD meets the requirements of EN 54-23: 2010 for the following categories (light pattern details): - Category W: W-2.4-6 - Category C: C-3-8.9, C-6-8.2 - Flash rate 0.5Hz - Synchronization 2. Type A with CSW shallow back box, Type B with CWW deep back box 3. WR indicates white body / red LED 4. YY indicates mounting option. Where S5 = shallow back box (standard fix) Where S6 = shallow back box (first fix) Where W5 = deep back box (standard fix) Where W6 = deep back box (first fix) 5. Meets the requirements of EN54-3: 2001 for the following tones: 1) 554/440, 2Hz (100ms/400ms); 2) 800/970, 1Hz; 3) 800/970, 2Hz; 4) 2400/2900, 3Hz; 5) 2500/3100, 2Hz; 6) 988/645, 2Hz; 7) 660Hz; 8) 970Hz; 9) 1200Hz; 10) 2850Hz; 11) 2400Hz, alternating between frequencies 2400Hz, 3100Hz & 988Hz 12) 420Hz, 0.625s on, 0.625 sec off; 13) 500-1200Hz, 0.25 sec off, 3.75 sec on; 14) 660, 3.33Hz, 150ms on, 150ms off; 15) 970, 0.8Hz 0.25s on, 1s off; 16) 970, 0.5Hz 1s on, 1s off; 17) 2850, 1Hz; 18) 970, 1Hz 500ms on, 500ms off; 19) 950, 0.22Hz (0.5s on, 0.5s off) x 3, 1.5s off; 20) 800Hz; 21) 400-1200Hz, (0.5s on, 0.5s off) x 3, 1.5s off; 22) 1200 - 500Hz, 0.99Hz 1s on, 0.01s off; 23) 2400 - 2850, 7Hz; 24) 500 - 1200Hz, (0.5s off, 3.5s on); 25) 800 - 970, 50Hz; 26) 800 - 970, 7Hz; 27) 800 - 970, 1Hz; 28) 2400 - 2850, 50Hz; 29) 500 - 1000, 7Hz; 30) 500 - 1200 - 500, 0.166Hz rise 1s, stable 4s, fall 1s; 31) 800 - 1000, 2Hz; 32) 2400 - 2850, 1Hz	567ay/03
CWSS-RW-YY	Conventional sounder beacon Notes:	567ay/04

Certificated Products		LPCB Ref. No.
	1. The ceiling / wall mounted VAD meets the requirements of EN 54-23: 2010 for the following categories (light pattern details): - Category W: W-2.4-8.9 - Category C: C-3-10, C-6-10 - Flash rate 0.5Hz - Synchronization 2. Type A with CSR shallow back box, Type B with CWR deep back box 3. RW indicates red body / white LED 4. YY indicates mounting option. Where S5 = shallow back box (standard fix) Where S6 = shallow back box (first fix) Where W5 = deep back box (standard fix) Where W6 = deep back box (first fix) 5. Meets the requirements of EN54-3: 2001 for the following tones: 1) 554/440, 2Hz (100ms/400ms); 2) 800/970, 1Hz; 3) 800/970, 2Hz; 4) 2400/2900, 3Hz; 5) 2500/3100, 2Hz; 6) 988/645, 2Hz; 7) 660Hz; 8) 970Hz; 9) 1200Hz; 10) 2850Hz; 11) 2400Hz, alternating between frequencies 2400Hz, 3100Hz & 988Hz 12) 420Hz, 0.625s on, 0.625 sec off; 13) 500-1200Hz, 0.25 sec off, 3.75 sec on; 14) 660, 3.33Hz, 150ms on, 150ms off; 15) 970, 0.8Hz 0.25s on, 1s off; 16) 970, 0.5Hz 1s on, 1s off; 17) 2850, 1Hz; 18) 970, 1Hz 500ms on, 500ms off; 19) 950, 0.22Hz (0.5s on, 0.5s off) x 3, 1.5s off; 20) 800Hz; 21) 400-1200Hz, (0.5s on, 0.5s off) x 3, 1.5s off; 22) 1200 - 500Hz, 0.99Hz 1s on, 0.01s off; 23) 2400 - 2850, 7Hz; 24) 500 - 1200Hz, (0.5s off, 3.5s on); 25) 800 - 970, 50Hz; 26) 800 - 970, 7Hz; 27) 800 - 970, 1Hz; 28) 2400 - 2850, 50Hz; 29) 500 - 1000, 7Hz; 30) 500 - 1200 - 500, 0.166Hz rise 1s, stable 4s, fall 1s; 31) 800 - 1000, 2Hz; 32) 2400 - 2850, 1Hz	
CWSS-WR-ZZ	Conventional sounder beacon Notes: 1. The ceiling / wall mounted VAD meets the requirements of EN 54-23: 2010 for the following category (light pattern details): - Category O: Open class only (Refer to installation manual) - Flash rate 0.5Hz - Synchronization 2. Type A with CSW shallow back box, Type B with CWW deep back box 3. WR indicates white body / red LED 4. ZZ indicates mounting option. Where S3 = shallow back box (standard fix) Where S4 = shallow back box (first fix) Where W3 = deep back box (standard fix) Where W4 = deep back box (first fix) 5. Meets the requirements of EN54-3: 2001 for the following tones: 1) 554/440, 2Hz (100ms/400ms); 2) 800/970, 1Hz; 3) 800/970, 2Hz; 4) 2400/2900, 3Hz; 5) 2500/3100, 2Hz; 6) 988/645, 2Hz; 7) 660Hz; 8) 970Hz; 9) 1200Hz; 10) 2850Hz; 11) 2400Hz, alternating between frequencies 2400Hz, 3100Hz & 988Hz	567ay/05

Certificated Products		LPCB Ref. No.
	12) 420Hz, 0.625s on, 0.625 sec off; 13) 500-1200Hz, 0.25 sec off, 3.75 sec on; 14) 660, 3.33Hz, 150ms on, 150ms off; 15) 970, 0.8Hz 0.25s on, 1s off; 16) 970, 0.5Hz 1s on, 1s off; 17) 2850, 1Hz; 18) 970, 1Hz 500ms on, 500ms off; 19) 950, 0.22Hz (0.5s on, 0.5s off) x 3, 1.5s off; 20) 800Hz; 21) 400-1200Hz, (0.5s on, 0.5s off) x 3, 1.5s off; 22) 1200 - 500Hz, 0.99Hz 1s on, 0.01s off; 23) 2400 - 2850, 7Hz; 24) 500 - 1200Hz, (0.5s off, 3.5s on); 25) 800 - 970, 50Hz; 26) 800 - 970, 7Hz; 27) 800 - 970, 1Hz; 28) 2400 - 2850, 50Hz; 29) 500 - 1000, 7Hz; 30) 500 - 1200 - 500, 0.166Hz rise 1s, stable 4s, fall 1s; 31) 800 - 1000, 2Hz; 32) 2400 - 2850, 1Hz	
CWSS-RR-ZZ	Conventional sounder beacon Notes: 1. The ceiling / wall mounted VAD meets the requirements of EN 54-23: 2010 for the following category (light pattern details): - Category O: Open class only (Refer to installation manual) - Flash rate 0.5Hz - Synchronization 2. Type A with CSR shallow back box, Type B with CWR deep back box 3. RR indicates red body / red LED 4. ZZ indicates mounting option. Where S3 = shallow back box (standard fix) Where S4 = shallow back box (first fix) Where W3 = deep back box (standard fix) Where W4 = deep back box (first fix) 5. Meets the requirements of EN54-3: 2001 for the following tones: 1) 554/440, 2Hz (100ms/400ms); 2) 800/970, 1Hz; 3) 800/970, 2Hz; 4) 2400/2900, 3Hz; 5) 2500/3100, 2Hz; 6) 988/645, 2Hz; 7) 660Hz; 8) 970Hz; 9) 1200Hz; 10) 2850Hz; 11) 2400Hz, alternating between frequencies 2400Hz, 3100Hz & 988Hz 12) 420Hz, 0.625s on, 0.625 sec off; 13) 500-1200Hz, 0.25 sec off, 3.75 sec on; 14) 660, 3.33Hz, 150ms on, 150ms off; 15) 970, 0.8Hz 0.25s on, 1s off; 16) 970, 0.5Hz 1s on, 1s off; 17) 2850, 1Hz; 18) 970, 1Hz 500ms on, 500ms off; 19) 950, 0.22Hz (0.5s on, 0.5s off) x 3, 1.5s off; 20) 800Hz; 21) 400-1200Hz, (0.5s on, 0.5s off) x 3, 1.5s off; 22) 1200 - 500Hz, 0.99Hz 1s on, 0.01s off; 23) 2400 - 2850, 7Hz; 24) 500 - 1200Hz, (0.5s off, 3.5s on); 25) 800 - 970, 50Hz; 26) 800 - 970, 7Hz; 27) 800 - 970, 1Hz; 28) 2400 - 2850, 50Hz; 29) 500 - 1000, 7Hz; 30) 500 - 1200 - 500, 0.166Hz rise 1s, stable 4s, fall 1s; 31) 800 - 1000, 2Hz; 32) 2400 - 2850, 1Hz	567ay/06

Bases

B501AP Mounting base - Low profile base IP21C
Bcc Deep Back Box

Wcc Waterproof Deep Back Box IP33C
CSW 19mm shallow back box - white IP21C
CSR 19mm shallow back box - red IP21C
CWW 45mm deep back box - white IP33C
CWR 45mm deep back box - red IP33C
A copy of the certificate, confirming the full scope of approval including notes relating to the superscript references in the above table, may be viewed online by clicking on the product name in the associated entry on www.RedBookLive.com

Kentec Electronics Limited

Units 25-27, Fawkes Avenue, Questor, Dartford, Kent DA1 1JQ, United Kingdom
Tel: +44 (0)1322 222121 • Fax: +44 (0)1322 291794
E-mail: sales@kentec.co.uk • Website: www.kentec.co.uk

Certificate No: 164h-(cl-3) to EN 54-3:2001 + A1:2002 + A2:2006

Audible Warning Devices

Certificated Products		**LPCB Ref. No.**
KS-BSND	Intelligent Analogue Addressable Type A Base Sounder - White Version (KS-BASE-3T base) Note: 1. Meets the requirements of EN 54-3 for tones 1 to 51 listed under Approved Tones: 1 - 925 Hz : 250 ms / 628 Hz : 250 ms 2 - 925 Hz Continuous 3 - 628 Hz Continuous 4 - (French) 554 Hz : 100 ms / 440 Hz : 400 ms 5 - (Swedish) 660 Hz : 150 ms / Off : 150 ms 6 - 925 Hz : 150 ms / Off : 600 ms 7 - 670 Hz : 250 ms / 845 Hz : 370 ms 8 - Whoop 500 Hz - 1200 Hz : 3000 ms / Off : 500 ms 9 - 1200 Hz : 500 ms / 500 Hz : 500 ms 10 - 970 Hz : 500 ms / Off : 500 ms 11 - Sweep 800 Hz - 970 Hz over 140 ms (7 Hz) 12 - Sweep 800 Hz - 970 Hz over 1000 ms (1 Hz) 13 - Sweep 800 Hz - 970 Hz over 20 ms (50 Hz) 14 - Sweep 2400 Hz - 2850 Hz over 140 ms (7 Hz) 15 - Sweep 2400 Hz - 2850 Hz over 1000 ms (1 Hz) 16 - Sweep 300 Hz - 1200 Hz over 1000 ms (1 Hz) 17 - ISO8201 : 970 Hz : 500 ms / Off : 500 ms 18 - ISO8201 : 2850 Hz : 500 ms / Off : 500 ms 19 - 800 Hz : 250 ms / 970 Hz : 250 ms 20 - 2850 Hz Continuous 21 - 2400 Hz : 250 ms / 2850 Hz : 250 ms 22 - 800 Hz : 500 ms / 970 Hz : 500 ms 23 - 2850 Hz : 500 ms / Off : 500 ms 24 - 925 Hz : 250 ms / Off : 1000 ms 25 - 970 Hz Continuous 26 - 660 Hz : 1800 ms / Off: 1800 ms 27 - 660 Hz : 6500 ms / Off : 13000 ms 28 - 660 Hz Continuous 29 - 554 Hz : 500 ms / 440 Hz : 500 ms 30 - 660 Hz : 500 ms / Off : 500 ms 31 - 2850 Hz : 150 ms / Off : 100 ms 32 - Sweep 2400 Hz - 2850 Hz over 20 ms (50 Hz) 33 - Sweep 800 Hz - 970 Hz over 500 ms (2 Hz) 34 - 988 Hz : 250 ms / 645 Hz : 250 ms 35 - 510 Hz : 250 ms / 610 Hz : 250 ms 36 - Sweep 800 Hz - 970 Hz over 110 ms (9 Hz) 37 - Sweep 800 Hz - 970 Hz over 330 ms (3 Hz) 38 - 845 Hz Continuous 39 - 970 Hz : 1000 ms / Off : 1000 ms 40 - 800 Hz : 150 ms / 970 Hz : 150 ms 41 - Sweep 2400 Hz - 2850 Hz over 110 ms (9 Hz) 42 - Sweep 2400 Hz - 2850 Hz over 330 ms (3 Hz) 43 - 2850 Hz : 1000 ms / Off : 1000 ms 44 - 2400 Hz : 150 ms / 2850 Hz : 150 ms 45 - (German) Whoop 1200 Hz - 500 Hz : 1000ms / Off : 10 ms 46 - 440 Hz : 600 ms / Off : 600 ms 47 - Whoop 500 Hz - 1200 Hz : 3750 ms / Off : 250 ms 48 - ISO8201 : 925 Hz, 628 Hz : 250 ms / Off 500 ms	164h/01

Certificated Products		LPCB Ref. No.
	49 - ISO8201 : Sweep 300 Hz - 1200 Hz : 500 ms / Off : 500 ms 50 - ISO8201 : Sweep 1200 Hz - 300 Hz : 500 ms / Off : 500 ms 51 - Whoop 500-1200 3500 ms / Off 500 ms	
KS-WSND2-RED	Intelligent Analogue Addressable Type A Wall Sounder (KS-BASE-3T-SCI, KS-BASE-WS-RED bases) Note: 1. Meets the requirements of EN 54-3 for tones 1 to 51 listed under Approved Tones: 1 925 Hz : 250 ms / 628 Hz : 250 ms 2 925 Hz Continuous 3 628 Hz Continuous 4 (French) 554 Hz : 100 ms / 440 Hz : 400 ms 5 (Swedish) 660 Hz : 150 ms / Off : 150 ms 6 925 Hz : 150 ms / Off : 600 ms 7 670 Hz : 250 ms / 845 Hz : 370 ms 8 Whoop 500 Hz 1200 Hz : 3000 ms / Off : 500 ms 9 1200 Hz : 500 ms / 500 Hz : 500 ms 10 970 Hz : 500 ms / Off : 500 ms 11 Sweep 800 Hz 970 Hz over 140 ms (7 Hz) 12 Sweep 800 Hz 970 Hz over 1000 ms (1 Hz) 13 Sweep 800 Hz 970 Hz over 20 ms (50 Hz) 14 Sweep 2400 Hz 2850 Hz over 140 ms (7 Hz) 15 Sweep 2400 Hz 2850 Hz over 1000 ms (1 Hz) 16 Sweep 300 Hz 1200 Hz over 1000 ms (1 Hz) 17 ISO8201 : 970 Hz : 500 ms / Off : 500 ms 18 ISO8201 : 2850 Hz : 500 ms / Off : 500 ms 19 800 Hz : 250 ms / 970 Hz : 250 ms 20 2850 Hz Continuous 21 - 2400 Hz : 250 ms / 2850 Hz : 250 ms 22 - 800 Hz : 500 ms / 970 Hz : 500 ms 23 - 2850 Hz : 500 ms / Off : 500 ms 24 - 925 Hz : 250 ms / Off : 1000 ms 25 - 970 Hz Continuous 26 - 660 Hz : 1800 ms / Off: 1800 ms 27 - 660 Hz : 6500 ms / Off : 13000 ms 28 - 660 Hz Continuous 29 - 554 Hz : 500 ms / 440 Hz : 500 ms 30 - 660 Hz : 500 ms / Off : 500 ms 31 - 2850 Hz : 150 ms / Off : 100 ms 32 - Sweep 2400 Hz - 2850 Hz over 20 ms (50 Hz) 33 - Sweep 800 Hz - 970 Hz over 500 ms (2 Hz) 34 - 988 Hz : 250 ms / 645 Hz : 250 ms 35 - 510 Hz : 250 ms / 610 Hz : 250 ms 36 - Sweep 800 Hz - 970 Hz over 110 ms (9 Hz) 37 - Sweep 800 Hz - 970 Hz over 330 ms (3 Hz) 38 - 845 Hz Continuous 39 - 970 Hz : 1000 ms / Off : 1000 ms 40 - 800 Hz : 150 ms / 970 Hz : 150 ms 41 - Sweep 2400 Hz - 2850 Hz over 110 ms (9 Hz) 42 - Sweep 2400 Hz - 2850 Hz over 330 ms (3 Hz) 43 - 2850 Hz : 1000 ms / Off : 1000 ms 44 - 2400 Hz : 150 ms / 2850 Hz : 150 ms 45 - (German) Whoop 1200 Hz - 500 Hz : 1000ms / Off : 10 ms 46 - 440 Hz : 600 ms / Off : 600 ms 47 - Whoop 500 Hz - 1200 Hz : 3750 ms / Off : 250 ms 48 - ISO8201 : 925 Hz, 628 Hz : 250 ms / Off 500 ms 49 - ISO8201 : Sweep 300 Hz - 1200 Hz : 500 ms / Off : 500 ms 50 - ISO8201 : Sweep 1200 Hz - 300 Hz : 500 ms / Off : 500 ms 51 - Whoop 500-1200 3500 ms / Off 500 ms	164h/02
KS-BSND2	Intelligent Analogue Addressable Type A Base Sounder - White Version (KS BASE-4T base) Note: 1. Meets the requirements of EN 54-3 for all 56 tones Approved Tones 1 925 Hz : 250 ms / 628 Hz : 250 ms 2 925 Hz Continuous 3 628 Hz Continuous 4 (French) 554 Hz : 100 ms / 440 Hz : 400 ms 5 (Swedish) 660 Hz : 150 ms / Off : 150 ms 6 925 Hz : 150 ms / Off : 600 ms 7 670 Hz : 250 ms / 845 Hz : 370 ms 8 Whoop 500 Hz 1200 Hz : 3000 ms / Off : 500 ms 9 1200 Hz : 500 ms / 500 Hz : 500 ms	164h/06

Certificated Products		LPCB Ref. No.
	10 970 Hz : 500 ms / Off : 500 ms 11 Sweep 800 Hz 970 Hz over 140 ms (7 Hz) 12 Sweep 800 Hz 970 Hz over 1000 ms (1 Hz) 13 Sweep 800 Hz 970 Hz over 20 ms (50 Hz) 14 Sweep 2400 Hz 2850 Hz over 140 ms (7 Hz) 15 Sweep 2400 Hz 2850 Hz over 1000 ms (1 Hz) 16 Sweep 300 Hz 1200 Hz over 1000 ms (1 Hz) 17 ISO8201 : 970 Hz : 500 ms / Off : 500 ms 18 ISO8201 : 2850 Hz : 500 ms / Off : 500 ms 19 800 Hz : 250 ms / 970 Hz : 250 ms 20 2850 Hz Continuous 21 - 2400 Hz : 250 ms / 2850 Hz : 250 ms 22 - 800 Hz : 500 ms / 970 Hz : 500 ms 23 - 2850 Hz : 500 ms / Off : 500 ms 24 - 925 Hz : 250 ms / Off : 1000 ms 25 - 970 Hz Continuous 26 - 660 Hz : 1800 ms / Off: 1800 ms 27 - 660 Hz : 6500 ms / Off : 13000 ms 28 - 660 Hz Continuous 29 - 554 Hz : 500 ms / 440 Hz : 500 ms 30 - 660 Hz : 500 ms / Off : 500 ms 31 - 2850 Hz : 150 ms / Off : 100 ms 32 - Sweep 2400 Hz - 2850 Hz over 20 ms (50 Hz) 33 - Sweep 800 Hz - 970 Hz over 500 ms (2 Hz) 34 - 988 Hz : 250 ms / 645 Hz : 250 ms 35 - 510 Hz : 250 ms / 610 Hz : 250 ms 36 - Sweep 800 Hz - 970 Hz over 110 ms (9 Hz) 37 - Sweep 800 Hz - 970 Hz over 330 ms (3 Hz) 38 - 845 Hz Continuous 39 - 970 Hz : 1000 ms / Off : 1000 ms 40 - 800 Hz : 150 ms / 970 Hz : 150 ms 41 - Sweep 2400 Hz - 2850 Hz over 110 ms (9 Hz) 42 - Sweep 2400 Hz - 2850 Hz over 330 ms (3 Hz) 43 - 2850 Hz : 1000 ms / Off : 1000 ms 44 - 2400 Hz : 150 ms / 2850 Hz : 150 ms 45 - (German) Whoop 1200 Hz - 500 Hz : 1000ms / Off : 10 ms 46 - 440 Hz : 600 ms / Off : 600 ms 47 - Whoop 500 Hz - 1200 Hz : 3750 ms / Off : 250 ms 48 - ISO8201 : 925 Hz, 628 Hz : 250 ms / Off 500 ms 49 - ISO8201 : Sweep 300 Hz - 1200 Hz : 500 ms / Off : 500 ms 50 - ISO8201 : Sweep 1200 Hz - 300 Hz : 500 ms / Off : 500 ms 51 - Whoop 500-1200 3500 ms / Off 500 ms 53 - Marine 1000Hz (1s on, 1s off)x7 + (7s on, 1s off) 54 - Whoop 1200 Hz 500 Hz : 1000ms 55 - Ramp up 150 Hz 1000 Hz : 10s. 1000 Hz 40s. Ramp down 1000 Hz 150 Hz: 10s. 56 - 725 Hz Continuous	

Bases

KS-BASE-3T	Standard Base
KS-BASE-3T-SCI	Short Circuit Isolator Base
KS-BASE-WS-RED	Standard Base
KS BASE-4T	Standard Base

A copy of the certificate, confirming the full scope of approval including notes relating to the superscript references in the above table, may be viewed online by clicking on the product name in the associated entry on www.RedBookLive.com

Certificate No: 164t-(cl-1) to EN 54-3:2014+A1:2019 & EN 54-23:2010

Visual & Audible Warning Devices

Certificated Products		LPCB Ref. No.
KS-WSNDB2-RL-RED	Addressable Type A/B Wall Sounder (Red LED) Beacon (KS-BASE-WS-RED and KS-BASE-3T bases) Notes: 1. The wall mounted VAD meets the requirements of EN 54-23:2010 for the following: - Category 0 - Flash rate 0.5Hz - Synchronization 2. Meets the requirements of EN 54-3 for tones 1 to 51 listed under Approved Tones. 3. The VAD is Type A when used with any of the above bases and Type B when used with a WS2-WPK weatherproofing kit	164t/02

Certificated Products		LPCB Ref. No.
	Approved Tones: 1 - 925 Hz : 250 ms / 628 Hz : 250 ms 2 - 925 Hz Continuous 3 - 628 Hz Continuous 4 - (French) 554 Hz : 100 ms / 440 Hz : 400 ms 5 - (Swedish) 660 Hz : 150 ms / Off : 150 ms 6 - 925 Hz : 150 ms / Off : 600 ms 7 - 670 Hz : 250 ms / 845 Hz : 370 ms 8 - Whoop 500 Hz - 1200 Hz : 3000 ms / Off : 500 ms 9 - 1200 Hz : 500 ms / 500 Hz : 500 ms 10 - 970 Hz : 500 ms / Off : 500 ms 11 - Sweep 800 Hz - 970 Hz over 140 ms (7 Hz) 12 - Sweep 800 Hz - 970 Hz over 1000 ms (1 Hz) 13 - Sweep 800 Hz - 970 Hz over 20 ms (50 Hz) 14 - Sweep 2400 Hz - 2850 Hz over 140 ms (7 Hz) 15 - Sweep 2400 Hz - 2850 Hz over 1000 ms (1 Hz) 16 - Sweep 300 Hz - 1200 Hz over 1000 ms (1 Hz) 17 - ISO8201 : 970 Hz : 500 ms / Off : 500 ms 18 - ISO8201 : 2850 Hz : 500 ms / Off : 500 ms 19 - 800 Hz : 250 ms / 970 Hz : 250 ms 20 - 2850 Hz Continuous 21 - 2400 Hz : 250 ms / 2850 Hz : 250 ms 22 - 800 Hz : 500 ms / 970 Hz : 500 ms 23 - 2850 Hz : 500 ms / Off : 500 ms 24 - 925 Hz : 250 ms / Off : 1000 ms 25 - 970 Hz Continuous 26 - 660 Hz : 1800 ms / Off: 1800 ms 27 - 660 Hz : 6500 ms / Off : 13000 ms 28 - 660 Hz Continuous 29 - 554 Hz : 500 ms / 440 Hz : 500 ms 30 - 660 Hz : 500 ms / Off : 500 ms 31 - 2850 Hz : 150 ms / Off : 100 ms 32 - Sweep 2400 Hz - 2850 Hz over 20 ms (50 Hz) 33 - Sweep 800 Hz - 970 Hz over 500 ms (2 Hz) 34 - 988 Hz : 250 ms / 645 Hz : 250 ms 35 - 510 Hz : 250 ms / 610 Hz : 250 ms 36 - Sweep 800 Hz - 970 Hz over 110 ms (9 Hz) 37 - Sweep 800 Hz - 970 Hz over 330 ms (3 Hz) 38 - 845 Hz Continuous 39 - 970 Hz : 1000 ms / Off : 1000 ms 40 - 800 Hz : 150 ms / 970 Hz : 150 ms 41 - Sweep 2400 Hz - 2850 Hz over 110 ms (9 Hz) 42 - Sweep 2400 Hz - 2850 Hz over 330 ms (3 Hz) 43 - 2850 Hz : 1000 ms / Off : 1000 ms 44 - 2400 Hz : 150 ms / 2850 Hz : 150 ms 45 - (German) Whoop 1200 Hz - 500 Hz : 1000ms / Off : 10 ms 46 - 440 Hz : 600 ms / Off : 600 ms 47 - Whoop 500 Hz - 1200 Hz : 3750 ms / Off : 250 ms 48 - ISO8201 : 925 Hz, 628 Hz : 250 ms / Off 500 ms 49 - ISO8201 : Sweep 300 Hz - 1200 Hz : 500 ms / Off : 500 ms 50 - ISO8201 : Sweep 1200 Hz - 300 Hz : 500 ms / Off : 500 ms 51 - Whoop 500-1200 3500 ms / Off 500 ms	
KS-BSNDB2-RL	Analogue Addressable Type A Base Sounder (Red LED) Beacon (KS-BASE-WS-RED and KS-BASE-3T-SCI bases) Notes: 1. The ceiling mounted VAD meets the requirements of EN 54-23:2010 for the following: - Category 0 - Flash rate 0.5Hz - Synchronization 2. Meets the requirements of EN 54-3 for tones 1 to 51 listed under Approved Tones: 1 925 Hz : 250 ms / 628 Hz : 250 ms 2 925 Hz Continuous 3 628 Hz Continuous 4 (French) 554 Hz : 100 ms / 440 Hz : 400 ms 5 (Swedish) 660 Hz : 150 ms / Off : 150 ms 6 925 Hz : 150 ms / Off : 600 ms 7 670 Hz : 250 ms / 845 Hz : 370 ms 8 Whoop 500 Hz 1200 Hz : 3000 ms / Off : 500 ms 9 1200 Hz : 500 ms / 500 Hz : 500 ms 10 970 Hz : 500 ms / Off : 500 ms 11 Sweep 800 Hz 970 Hz over 140 ms (7 Hz) 12 Sweep 800 Hz 970 Hz over 1000 ms (1 Hz)	164t/08

Certificated Products **LPCB Ref. No.**

13 Sweep 800 Hz 970 Hz over 20 ms (50 Hz)
14 Sweep 2400 Hz 2850 Hz over 140 ms (7 Hz)
15 Sweep 2400 Hz 2850 Hz over 1000 ms (1 Hz)
16 Sweep 300 Hz 1200 Hz over 1000 ms (1 Hz)
17 ISO8201 : 970 Hz : 500 ms / Off : 500 ms
18 ISO8201 : 2850 Hz : 500 ms / Off : 500 ms
19 800 Hz : 250 ms / 970 Hz : 250 ms
20 2850 Hz Continuous
21 - 2400 Hz : 250 ms / 2850 Hz : 250 ms
22 - 800 Hz : 500 ms / 970 Hz : 500 ms
23 - 2850 Hz : 500 ms / Off : 500 ms
24 - 925 Hz : 250 ms / Off : 1000 ms
25 - 970 Hz Continuous
26 - 660 Hz : 1800 ms / Off: 1800 ms
27 - 660 Hz : 6500 ms / Off : 13000 ms
28 - 660 Hz Continuous
29 - 554 Hz : 500 ms / 440 Hz : 500 ms
30 - 660 Hz : 500 ms / Off : 500 ms
31 - 2850 Hz : 150 ms / Off : 100 ms
32 - Sweep 2400 Hz - 2850 Hz over 20 ms (50 Hz)
33 - Sweep 800 Hz - 970 Hz over 500 ms (2 Hz)
34 - 988 Hz : 250 ms / 645 Hz : 250 ms
35 - 510 Hz : 250 ms / 610 Hz : 250 ms
36 - Sweep 800 Hz - 970 Hz over 110 ms (9 Hz)
37 - Sweep 800 Hz - 970 Hz over 330 ms (3 Hz)
38 - 845 Hz Continuous
39 - 970 Hz : 1000 ms / Off : 1000 ms
40 - 800 Hz : 150 ms / 970 Hz : 150 ms
41 - Sweep 2400 Hz - 2850 Hz over 110 ms (9 Hz)
42 - Sweep 2400 Hz - 2850 Hz over 330 ms (3 Hz)
43 - 2850 Hz : 1000 ms / Off : 1000 ms
44 - 2400 Hz : 150 ms / 2850 Hz : 150 ms
45 - (German) Whoop 1200 Hz - 500 Hz : 1000ms / Off : 10 ms
46 - 440 Hz : 600 ms / Off : 600 ms
47 - Whoop 500 Hz - 1200 Hz : 3750 ms / Off : 250 ms
48 - ISO8201 : 925 Hz, 628 Hz : 250 ms / Off 500 ms
49 - ISO8201 : Sweep 300 Hz - 1200 Hz : 500 ms / Off : 500 ms
50 - ISO8201 : Sweep 1200 Hz - 300 Hz : 500 ms / Off : 500 ms
51 - Whoop 500-1200 3500 ms / Off 500 ms

Bases:
KS-BASE-WS-RED Standard Base
KS-BASE-3T-SCI Short Circuit Isolator Base

Accessories:
WS2-WPK Weatherproofing kit

A copy of the certificate, confirming the full scope of approval including notes relating to the superscript references in the above table, may be viewed online by clicking on the product name in the associated entry on www.RedBookLive.com

---

Ketton Power & Safety Ltd

82A James Carter Road, Mildenhall Industrial Estate, Mildenhall, Bury St Edmonds, Suffolk IP28 7DE, United Kingdom
Tel: +905363978385
E-mail: Info@kettonfire.co.uk

Certificate No: 1450a-(cl-4) to EN 54-3:2014 + A1:2019

Certificated Products		**LPCB Ref. No.**
KET-BS-300	Sounder Base Type A Notes: Meets the requirements of EN 54-3: for the following tones Tone 1, 1.67KHz-5.9KHz (3.5s - 4.5s) Tone 2, 2.85KHz-4.1KHz (0.1s - 0.4s)	1450a/02
KET-SF-260	Addressable Sounder Strobe Type A Notes:	1450a/03

Certificated Products		LPCB Ref. No.
	Meets the requirements of EN 54-3: for the following tone 1) One Default Tone, 1.67KHz – 5.9KHz (3.5s - 4.5s) The Beacon function is not approved to EN 54-23	

A copy of the certificate, confirming the full scope of approval including notes relating to the superscript references in the above table, may be viewed online by clicking on the product name in the associated entry on www.RedBookLive.com

---

KMW Systems S.R.L.

Str.Sambetei, Nr. 6 Iasi, , Romania
Tel: 0040232247288
E-mail: marius.gavriluta@kmw.ro

Certificate No: 1174c-(cl-7) to EN 54-3:2014 + A1:2019

Audible Warning Devices

Certificated Products		LPCB Ref. No.
KM-FC5200	Conventional Type A Sounder Strobe (KM-FC5101 Base) Notes: 1. Meets the requirements of EN 54-3 and approved at the following tones: 1) Tone 01, 2400Hz - 2900Hz @ 3 Hz 2) Tone 10, 500Hz - 1200Hz x 3, 3.5s on / 0.5s off 2. The strobe function is not included within the scope of this approval	1174c/01
KM-FA6200	Addressable Type A Indoor Digital Sounder Beacon (KM-FA6101 Base) Notes: 1. Meets the requirements of EN 54-3 and approved at the following tones: 1) Tone 00, 2400Hz - 2900Hz @ 3Hz 2) Tone 01, 2400Hz - 2900Hz @ 9Hz 3) Tone 08, 500Hz - 1200Hz x 3, 3.5s on / 0.5s off 4) Tone 14, 1500Hz - 2700Hz @ 3Hz 2. The beacon function is not included within the scope of this approval *Bases* *KM-FC5201 Base* *KM-FA6201 Digital Sounder Base*	1174c/02

Bases

KM-FC5201	Base
KM-FA6201	Digital Sounder Base

A copy of the certificate, confirming the full scope of approval including notes relating to the superscript references in the above table, may be viewed online by clicking on the product name in the associated entry on www.RedBookLive.com

---

Labor Strauss Sicherungsanlagenbau GmbH

Wiegelestrasse 36, A-1231 Vienna, Austria
Tel: +43 1 52114-44 • Fax: +43 1 52114-27
E-mail: andreas.schumacher@lst.at • Website: www.laborstrauss.com

Certificate No: 546a-(cl-3) to EN 54-3: 2001 + A1: 2002 + A2: 2006

Audible Warning Devices

Certificated Products		LPCB Ref. No.
200/FBRI/SOUW	Conventional indoor Type A sounder base *Notes:* *1. Also approved in Off-white, Ivory and Alternative white (-O, -I, and -A suffixes)* *2. Meets the requirements of EN 54-3 at the following tone settings on low, medium and high volume settings:* *1 - LF Sweep (Cranford sweep) (800-1000Hz @ 0.5 Sec)* *3 - Alternative Warble (800-1000Hz @ 0.5 Sec)* *11 - Dutch Sweep Tone (970Hz Cont)*	546a/04

Certificated Products		LPCB Ref. No.

25 - German DIN Tone (Sweep 1200-500Hz @ 1Hz)
27- French Tone AFNOR (554Hz 100ms and 440Hz for 400 ms)

3. Cover plate (Part No. 116-099) must be used.

Ancillaries
FI750/M/SST Addressable module with short circuit isolator
A copy of the certificate, confirming the full scope of approval including notes relating to the superscript references in the above table, may be viewed online by clicking on the product name in the associated entry on www.RedBookLive.com

Certificate No: 928z-(cl-4) to EN 54-3:2001 + A1:2002 + A2:2006 & EN 54-17:2005 & EN 54-18:2005 & EN 54-23: 2010

Visual & Audible Warning Devices

Certificated Products		LPCB Ref. No.
CWS/SOUR/STRC + FI750/M/SST	Altair Addressable Type A (indoor) Wall Sounder and Visual Alarm Device with Short Circuit Isolator Notes: 1. Meets the requirements of EN 54-3 at the following tone settings: Tone 1 - Warble Tone 800Hz for 500ms, then 1000Hz for 500ms Tone 2 - Continuous Tone, 970Hz Tone 3 - Slow Whoop (Dutch), 500-1200Hz for 3500ms, then off for 500ms Tone 4 - German DIN Tone, 1200-500Hz swept every 1000ms (1Hz) 2. The wall mounted VAD meets the requirements of EN 54-23 for the following: - Category W-2.5-7 - Flash rate - 0.5Hz - Synchronization 3. Device is only addressable when used in conjunction with FI750/M/SST *Ancillaries* *FI750/M/SST Addressable module with short circuit isolator*	928z/01

A copy of the certificate, confirming the full scope of approval including notes relating to the superscript references in the above table, may be viewed online by clicking on the product name in the associated entry on www.RedBookLive.com

Certificate No: 928ah-(cl-4) to EN 54-3:2014+A1:2019, EN 54-17:2005, EN 54-18:2005

Certificated Products		LPCB Ref. No.
CWS/SOUR + FI750/M/SST	Altair Addressable Type A (indoor) Wall Sounder with Short Circuit Isolator Notes: 1. Meets the requirements of EN 54-3 at the following tone settings: Tone 1 - Warble Tone 800Hz for 500ms, then 1000Hz for 500ms Tone 2 Continuous Tone, 970Hz Tone 3 Slow Whoop (Dutch), 500-1200Hz for 3500ms, then off for 500ms Tone 4 German DIN Tone, 1200-500Hz swept every 1000ms (1Hz) 2.Device is only addressable when used in conjunction with FI750/M/SST	928ah/01

Ancillaries
FI750/M/SST Addressable module with short circuit isolator

A copy of the certificate, confirming the full scope of approval including notes relating to the superscript references in the above table, may be viewed online by clicking on the product name in the associated entry on www.RedBookLive.com

Certificate No: 928w-(cl-4) to EN 54-3:2014+A1:2019

Certificated Products		LPCB Ref. No.
CWS/SOUR	Conventional Type A (indoor) Wall Sounder Notes: 1. Meets the requirements of EN 54-3 at the following tone settings: Tone 1 - Warble Tone 800Hz for 500ms, then 1000Hz for 500ms Tone 2 Continuous Tone, 970Hz Tone 3 Slow Whoop (Dutch), 500-1200Hz for 3500ms, then off for 500ms Tone 4 German DIN Tone, 1200-500Hz swept every 1000ms (1Hz)	928w/07

A copy of the certificate, confirming the full scope of approval including notes relating to the superscript references in the above table, may be viewed online by clicking on the product name in the associated entry on www.RedBookLive.com

Certificate No: 928y-(cl-3) to EN 54-3:2001+A!:2002+A2:2006

Certificated Products		LPCB Ref. No.
CWS/SOUR/STRC	Conventional Type A (indoor) Wall Sounder and Visual Alarm Device Notes: 1. Meets the requirements of EN 54-3 at the following tone settings: Tone 1 - Warble Tone 800Hz for 500ms, then 1000Hz for 500ms Tone 2 Continuous Tone, 970Hz Tone 3 Slow Whoop (Dutch), 500-1200Hz for 3500ms, then off for 500ms Tone 4 German DIN Tone, 1200-500Hz swept every 1000ms (1Hz) 2. The wall mounted VAD meets the requirements of EN 54-23 for the following: - Category W-2.5-7 - Flash rate - 0.5Hz - Synchronization	928y/01

A copy of the certificate, confirming the full scope of approval including notes relating to the superscript references in the above table, may be viewed online by clicking on the product name in the associated entry on www.RedBookLive.com

Lichfield Fire & Safety Equipment Co. Ltd

Unit 8, Calibre Industrial Park, Laches Close, Four Ashes, Wolverhampton WV10 7DZ, United Kingdom
Tel: +44 (0) 1902 798 706 • Fax: +44 (0) 1902 798 679
E-mail: info@lifeco-uk.com • Website: www.lifeco-uk.com

Certificate No: 1330d-(cl-6) to EN 54-3:2014 + A1:2019

Alarm Warning Devices

Approved Products		LPCB Ref. No.
LF-X5300	Addressable Sounder Strobe (LF-X5300 Sounder Base) Notes: 1. Approved to Type A Indoor use only. 2. Meets the requirements of EN 54-3 at the following tones: • Tone 14, 2400 Hz - 2900 Hz @ 3Hz • Tone 16, 500Hz - 1200Hz, 3.75s on/0.25s off • Tone 17, 800Hz, 1s off/1s on The strobe function is not approved to EN 54-23	1330d/01
LF-X5302	Addressable Sounder Base Notes: 1. Approved to Type A Indoor use only. 2. Meets the requirements of EN 54-3 at the following tones: • Tone 14, 2400 Hz - 2900 Hz @ 3Hz • Tone 16, 500Hz - 1200Hz, 3.75s on/0.25s off • Tone 17, 800Hz, 1s off/1s on The strobe function is not approved to EN 54-23	1330d/02

LF-X5300 Sounder Base

A copy of the certificate, confirming the full scope of approval including notes relating to the superscript references in the above table, may be viewed online by clicking on the product name in the associated entry on www.RedBookLive.com

Mavili Elektronik Ticaret Ve Sanayi A.S.

Serifali Mah, Kutup Sok, No: 27:, 1-2-4 Ümraniye, Istanbul TR 34775, Turkey
Tel: +90 216 4664 505 • Fax: +90 216 4664 510
E-mail: mavili@mavili.com.tr • Website: www.mavili.com.tr

Certificate No: 926r to EN 54-23:2010

Certificated Products		LPCB Ref. No.
ML-2420	Maxlogic Type A Conventional Wall Beacon Notes: 1) Type A for Indoor Use only 2) Meets the requirements of EN 54-23 for the following: - Category W-2.8-8.0 - Flash Rate 1Hz	926r/01
ML-1420	Maxlogic Type A Analogue Addressable System Wall Strobe Notes: 1) Type A for Indoor Use only 2) Meets the requirements of EN 54-23 for the following: - Category Open Class O-1.4-2.0 (cuboid shape: 1.4-3.0.-2.0) - Flash Rate 0.5Hz	926r/02
ML-1103	Maxlogic Intelligent Addressable Loop Powered Base Beacon Notes: 1) Type A for Indoor Use only. 2) Meets the requirements of EN 54-23 for the following: - Open Class: Coverage volume and shape as detailed in operation manual - Flash Rate: 0.5Hz - Operation voltage range: Loop Powered 18-33V DC	926r/03

A copy of the certificate, confirming the full scope of approval including notes relating to the superscript references in the above table, may be viewed online by clicking on the product name in the associated entry on www.RedBookLive.com

Certificate No: 926q to EN 54-3:2014 + A1:2019

Certificated Products		LPCB Ref. No.
ML-2410	Maxlogic Type A Conventional Wall Sounder Note: Meets the requirements of EN 54-3 at the following tones: 1 - Alternating 800-970Hz 2 - Continuous 970Hz 3 - Sweep 800-970Hz, 1000ms On 4 - Pulse 970 Hz, 1s On / 1s Off 5 - Sweep 800-970Hz, 140ms On 6 - Pulse 660Hz, 150ms On / 150ms Off 7 - Intermittent Sweep 500-1200Hz, 3.5s On / 0.5s Off 8 - Sweep 1200-500Hz, 1000ms On 9 - Pulse 970Hz, 450-500ms On / 450-550ms Off 10 - Sweep 2400-2900Hz, 330ms On 11 - Alternating 554-440Hz, 100ms On - 400ms On 12 - Alternating 800-1000Hz, 500ms On - 500ms On 13 - Sweep 800-1000Hz, 500ms On 14 - Alternating 990-650Hz, 250ms On - 250ms On 15 - Pulse 2810Hz, 500ms On / 500ms Off 16 - Continuous 660Hz 17 - Pulse 420Hz, 625ms On / 625ms Off 18 - Sweep 800-970Hz, 20ms On 19 - Sweep 2400-2850Hz, 20ms On 20 - Sweep 2400-2850Hz, 140ms On 21 - Sweep 2400-2850Hz, 1000ms On 22 - Continuous 2850Hz 23 - Sweep 150-1000Hz, 10s On / 4s Off 24 - Sweep 500-1000Hz, 143ms On 25 - Sweep 500-1200Hz, 1000ms Off 26 - Sweep 500-1200Hz, 100ms Off 27 - Alternating 400-1200Hz, 500ms On, 500ms Off 28 - Pulse 800Hz, 1s On / 1s Off 29 - Alternating 840-558Hz, 500ms On 30 - Pulse 500Hz, 150ms On / 600ms On 31 - Alternating 510-610Hz, 250ms On - 250ms On 32 - Sweep 800-950Hz, 333ms On	926q/01
ML-1410	Maxlogic Type A Analogue Addressable System Sounder Note: 1. Type A for Indoor Use only 2. Meets the requirements of EN 54-3 at the following tones: 1 Alternating 800-970Hz, 250 - 250ms On 2 Continuous 970Hz 3 Sweep 800-970Hz, 1000ms On	926q/02

Certificated Products		LPCB Ref. No.
	4 Pulse 970 Hz, 1000ms ON / 1000ms OFF 5 Sweep 800-970Hz, 180ms On 6 Pulse 660HZ, 160ms On / 160ms Off 7 Sweep 500-1200Hz, 2500ms On / 500ms Off 8 Sweep 1200-500Hz, 1000ms On 9 Pulse 970Hz, 450-550ms On, 450-550ms Off 10 Sweep 2400-2900Hz, 250ms On 11 Alternating 554-440Hz, 100ms On - 400ms On 12 Alternating 800-1000Hz, 500ms On - 500ms On 13 Sweep 800-1000Hz, 440ms On 14 Alternating 990-650Hz, 250ms On - 250ms On 15 Pulse 2810Hz, 500ms On / 500ms Off 16 Continuous 660Hz 17 Pulse 420Hz, 625ms On / 625ms Off 18 Continuous 1200Hz 19 Continuous 800Hz 20 Sweep 2400-2850Hz, 200ms On 21 Sweep 2400-2850Hz, 880ms On 22 Continuous 2850Hz 23 Sweep 150-1000Hz, 1100ms On / 4000ms Off 24 Sweep 500-1000Hz, 190ms On 25 Sweep 500-1200Hz, 1000ms On / 850ms Off 26 Sweep 500-1200Hz, 450ms On 27 Alternating 400-1200Hz, 486ms On / 480ms Off 28 Pulse 800Hz, 938ms On / 996ms Off 29 Alternating 840-558Hz, 480ms On - 490ms On 30 Pulse 500Hz, 580ms On / 144ms Off 31 Alternating 510-610Hz, 232ms On - 238ms On 32 Sweep 800-950Hz, 344ms On	
ML-1101	Maxlogic Intelligent Addressable Loop Powered Base Sounder Notes: 1. Meets the requirements of EN 54-3 at the following tones: 1 - Alternating 800-970Hz 2 - Continuous 970Hz 3 - Pulse 660Hz, 150ms On / 150ms Off 4 - Sweep 500-1200Hz, 3500ms On / 500ms Off 5 - Sweep 1200-500Hz, 1000ms On 6 - Pulse 970Hz, 450-500ms On / 450-550ms Off 7 - Continuous 660Hz 8 - Continuous 2850Hz 2. Type A for Indoor Use only.	926q/03

A copy of the certificate, confirming the full scope of approval including notes relating to the superscript references in the above table, may be viewed online by clicking on the product name in the associated entry on www.RedBookLive.com

Certificate No: 926s to EN 54-3:2014 + A1:2019, EN 54-23:2010

Certificated Products		LPCB Ref. No.
ML-2430	Maxlogic Type A Conventional Wall Sounder and Beacon Notes: 1. Type A for Indoor Use only 2. Meets the requirements of EN 54-3 at the following tones: 1 - Alternating 800-970Hz 2 - Continuous 970Hz 3 - Sweep 800-970Hz, 1000ms On 4 - Pulse 970 Hz, 1s On / 1s Off 5 - Sweep 800-970Hz, 140ms On 6 - Pulse 660Hz, 150ms On / 150ms Off 7 - Intermittent Sweep 500-1200Hz, 3.5s On / 0.5s Off 8 - Sweep 1200-500Hz, 1000ms On 9 - Pulse 970Hz, 450-500ms On / 450-550ms Off 10 - Sweep 2400-2900Hz, 330ms On 11 - Alternating 554-440Hz, 100ms On - 400ms On	926s/01

Certificated Products		LPCB Ref. No.
	12 - Alternating 800-1000Hz, 500ms On - 500ms On 13 - Sweep 800-1000Hz, 500ms On 14 - Alternating 990-650Hz, 250ms On - 250ms On 15 - Pulse 2810Hz, 500ms On / 500ms Off 16 - Continuous 660Hz 17 - Pulse 420Hz, 625ms On / 625ms Off 18 - Sweep 800-970Hz, 20ms On 19 - Sweep 2400-2850Hz, 20ms On 20 - Sweep 2400-2850Hz, 140ms On 21 - Sweep 2400-2850Hz, 1000ms On 22 - Continuous 2850Hz 23 - Sweep 150-1000Hz, 10s On / 4s Off 24 - Sweep 500-1000Hz, 143ms On 25 - Sweep 500-1200Hz, 1000ms Off 26 - Sweep 500-1200Hz, 100ms Off 27 - Alternating 400-1200Hz, 500ms On, 500ms Off 28 - Pulse 800Hz, 1s On / 1s Off 29 - Alternating 840-558Hz, 500ms On 30 - Pulse 500Hz, 150ms On / 600ms On 31 - Alternating 510-610Hz, 250ms On - 250ms On 32 - Sweep 800-950Hz, 333ms On 3. Meets the requirements of EN 54-23 for the following: - Category W-2.4-8.0 - Flash Rate 1Hz	
ML-1430	Maxlogic Type A Analogue Addressable System Wall Sounder & Strobe Notes: 1. Type A for Indoor Use only 2. Meets the requirements of EN 54-3 at the following tones: 1 Alternating 800-970Hz, 250 - 250ms On 2 Continuous 970Hz 3 Sweep 800-970Hz, 1000ms On 4 Pulse 970 Hz, 1000ms ON / 1000ms OFF 5 Sweep 800-970Hz, 180ms On 6 Pulse 660HZ, 160ms On / 160ms Off 7 Sweep 500-1200Hz, 2500ms On / 500ms Off 8 Sweep 1200-500Hz, 1000ms On 9 Pulse 970Hz, 450-550ms On, 450-550ms Off 10 Sweep 2400-2900Hz, 250ms On 11 Alternating 554-440Hz, 100ms On - 400ms On 12 Alternating 800-1000Hz, 500ms On - 500ms On 13 Sweep 800-1000Hz, 440ms On 14 Alternating 990-650Hz, 250ms On - 250ms On 15 Pulse 2810Hz, 500ms On / 500ms Off 16 Continuous 660Hz 17 Pulse 420Hz, 625ms On / 625ms Off 18 Continuous 1200Hz 19 Continuous 800Hz 20 Sweep 2400-2850Hz, 200ms On 21 Sweep 2400-2850Hz, 880ms On 22 Continuous 2850Hz 23 Sweep 150-1000Hz, 1100ms On / 4000ms Off 24 Sweep 500-1000Hz, 190ms On 25 Sweep 500-1200Hz, 1000ms On / 850ms Off 26 Sweep 500-1200Hz, 450ms On 27 Alternating 400-1200Hz, 486ms On / 480ms Off 28 Pulse 800Hz, 938ms On / 996ms Off 29 Alternating 840-558Hz, 480ms On - 490ms On 30 Pulse 500Hz, 580ms On / 144ms Off 31 Alternating 510-610Hz, 232ms On - 238ms On 32 Sweep 800-950Hz, 344ms On 3. Meets the requirements of EN 54-23 for the following: - Category Open Class O-1.4-2.0 (cuboid shape: 1.4-3.0.-2.0) - Flash Rate 0.5Hz	926s/02
ML-1102	Maxlogic Intelligent Addressable Loop Powered Base Sounder Beacon Notes: 1. Meets the requirements of EN 54-3 at the following tones: 1 - Alternating 800-970Hz 2 - Continuous 970Hz 3 - Pulse 660Hz, 150ms On / 150ms Off 4 - Sweep 500-1200Hz, 3500ms On / 500ms Off 5 - Sweep 1200-500Hz, 1000ms On	926s/03

Certificated Products		LPCB Ref. No.
	6 - Pulse 970Hz, 450-500ms On / 450-550ms Off 7 - Continuous 660Hz 8 - Continuous 2850Hz 2. Type A for Indoor Use only. 3. Meets the requirements of EN 54-23 for the following: - Open Class: Coverage volume and shape as detailed in operation manual - Flash Rate: 0.5Hz - Operation voltage range: Loop Powered 18-33V DC	

A copy of the certificate, confirming the full scope of approval including notes relating to the superscript references in the above table, may be viewed online by clicking on the product name in the associated entry on www.RedBookLive.com

Certificate No: 926u to EN 54-23:2010, EN 54-17:2005

Certificated Products		LPCB Ref. No.
ML-1420.SCI	Maxlogic Type A Analogue Addressable System Wall Strobe with Short Circuit Isolator Notes: 1. Type A for Indoor Use only 2) Meets the requirements of EN 54-23 for the following: - Category Open Class O-1.4-2.0 (cuboid shape: 1.4-3.0.-2.0) - Flash Rate 0.5Hz	926u/01

A copy of the certificate, confirming the full scope of approval including notes relating to the superscript references in the above table, may be viewed online by clicking on the product name in the associated entry on www.RedBookLive.com

Certificate No: 926t to EN 54-3:2014 + A1:2019, EN 54-17:2005

Certificated Products		LPCB Ref. No.
ML-1410.SCI	Maxlogic Type A Analogue Addressable System Sounder with Short Circuit Isolator Notes: 1. Type A for Indoor Use only 2. Meets the requirements of EN 54-3 at the following tones: 1 Alternating 800-970Hz, 250 - 250ms On 2 Continuous 970Hz 3 Sweep 800-970Hz, 1000ms On 4 Pulse 970 Hz, 1000ms ON / 1000ms OFF 5 Sweep 800-970Hz, 180ms On 6 Pulse 660HZ, 160ms On / 160ms Off 7 Sweep 500-1200Hz, 2500ms On / 500ms Off 8 Sweep 1200-500Hz, 1000ms On 9 Pulse 970Hz, 450-550ms On, 450-550ms Off 10 Sweep 2400-2900Hz, 250ms On 11 Alternating 554-440Hz, 100ms On - 400ms On 12 Alternating 800-1000Hz, 500ms On - 500ms On 13 Sweep 800-1000Hz, 440ms On 14 Alternating 990-650Hz, 250ms On - 250ms On 15 Pulse 2810Hz, 500ms On / 500ms Off 16 Continuous 660Hz 17 Pulse 420Hz, 625ms On / 625ms Off 18 Continuous 1200Hz 19 Continuous 800Hz 20 Sweep 2400-2850Hz, 200ms On 21 Sweep 2400-2850Hz, 880ms On 22 Continuous 2850Hz 23 Sweep 150-1000Hz, 1100ms On / 4000ms Off 24 Sweep 500-1000Hz, 190ms On 25 Sweep 500-1200Hz, 1000ms On / 850ms Off 26 Sweep 500-1200Hz, 450ms On 27 Alternating 400-1200Hz, 486ms On / 480ms Off 28 Pulse 800Hz, 938ms On / 996ms Off 29 Alternating 840-558Hz, 480ms On - 490ms On 30 Pulse 500Hz, 580ms On / 144ms Off 31 Alternating 510-610Hz, 232ms On - 238ms On 32 Sweep 800-950Hz, 344ms On	926t/01

A copy of the certificate, confirming the full scope of approval including notes relating to the superscript references in the above table, may be viewed online by clicking on the product name in the associated entry on www.RedBookLive.com

Certificate No: 926v to EN 54-3:2014 + A1:2019, EN 54-23:2010, EN 54-17:2005

Certificated Products		LPCB Ref. No.
ML-1430.SCI	Maxlogic Type A Analogue Addressable System Wall Sounder & Strobe with Short Circuit Isolator Notes: 1. Type A for Indoor Use only 2. Meets the requirements of EN 54-3 at the following tones: 1 Alternating 800-970Hz, 250 - 250ms On 2 Continuous 970Hz 3 Sweep 800-970Hz, 1000ms On 4 Pulse 970 Hz, 1000ms ON / 1000ms OFF 5 Sweep 800-970Hz, 180ms On 6 Pulse 660HZ, 160ms On / 160ms Off 7 Sweep 500-1200Hz, 2500ms On / 500ms Off 8 Sweep 1200-500Hz, 1000ms On 9 Pulse 970Hz, 450-550ms On, 450-550ms Off 10 Sweep 2400-2900Hz, 250ms On 11 Alternating 554-440Hz, 100ms On - 400ms On 12 Alternating 800-1000Hz, 500ms On - 500ms On 13 Sweep 800-1000Hz, 440ms On 14 Alternating 990-650Hz, 250ms On - 250ms On 15 Pulse 2810Hz, 500ms On / 500ms Off 16 Continuous 660Hz 17 Pulse 420Hz, 625ms On / 625ms Off 18 Continuous 1200Hz 19 Continuous 800Hz 20 Sweep 2400-2850Hz, 200ms On 21 Sweep 2400-2850Hz, 880ms On 22 Continuous 2850Hz 23 Sweep 150-1000Hz, 1100ms On / 4000ms Off 24 Sweep 500-1000Hz, 190ms On 25 Sweep 500-1200Hz, 1000ms On / 850ms Off 26 Sweep 500-1200Hz, 450ms On 27 Alternating 400-1200Hz, 486ms On / 480ms Off 28 Pulse 800Hz, 938ms On / 996ms Off 29 Alternating 840-558Hz, 480ms On - 490ms On 30 Pulse 500Hz, 580ms On / 144ms Off 31 Alternating 510-610Hz, 232ms On - 238ms On 32 Sweep 800-950Hz, 344ms On 3. Meets the requirements of EN 54-23 for the following: - Category Open Class O-1.4-2.0 (cuboid shape: 1.4-3.0.-2.0) - Flash Rate 0.5Hz	926v/01

A copy of the certificate, confirming the full scope of approval including notes relating to the superscript references in the above table, may be viewed online by clicking on the product name in the associated entry on www.RedBookLive.com

---

Moflash Signalling Ltd.

11 Upper Conybere Street, Highgate, Birmingham, West Midlands B12 0EB, United Kingdom
Tel: 01214405894 • Fax: 01214464344
E-mail: engineering@moflash.co.uk • Website: https://www.moflash.co.uk/

Certificate No: 1448a to EN 54-3:2001 + A1:2002 + A2:2006

Audible Warning Devices

Certificated Products		LPCB Ref. No.
IS-S-02	Intrinsically Safe Fire Alarm Sounder Type B (Red) (HSG6890SA base) Note: 1. Meets the requirements of EN 54-3:2001 for the following tones - Tone 1 - 970Hz Continuous - Tone 2 - 800Hz/970Hz @ 2Hz - Tone 3 - 800Hz - 970Hz @ 1Hz - Tone 6 - 554Hz, 0.1s / 440Hz, 0.4s (AFNOR NF S 32 001)	1448a/01

Certificated Products		LPCB Ref. No.
	- Tone 7 - 500 - 1200Hz, 3.5s / 0.5s OFF (NEN 2575:2000 Dutch Slow Whoop) - Tone 13 - 1200Hz - 500Hz @ 1Hz (DIN 33 404)	
IS-S-02WH	Intrinsically Safe Fire Alarm Sounder Type B (White) (HSG6890SA base) Note: 1. Meets the requirements of EN 54-3:2001 for the following tones - Tone 1 - 970Hz Continuous - Tone 2 - 800Hz/970Hz @ 2Hz - Tone 3 - 800Hz - 970Hz @ 1Hz - Tone 6 - 554Hz, 0.1s / 440Hz, 0.4s (AFNOR NF S 32 001) - Tone 7 - 500 - 1200Hz, 3.5s / 0.5s OFF (NEN 2575:2000 Dutch Slow Whoop) - Tone 13 - 1200Hz - 500Hz @ 1Hz (DIN 33 404)	1448a/01
IS-SB-02-XX	Intrinsically Safe Fire Alarm Sounder Beacon Type B (Red) (HSG6890SA base) Notes: 1. Meets the requirements of EN 54-3:2001 for the following tones - Tone 1 - 970Hz Continuous - Tone 2 - 800Hz/970Hz @ 2Hz - Tone 3 - 800Hz - 970Hz @ 1Hz - Tone 6 - 554Hz, 0.1s / 440Hz, 0.4s (AFNOR NF S 32 001) - Tone 7 - 500 - 1200Hz, 3.5s / 0.5s OFF (NEN 2575:2000 Dutch Slow Whoop) - Tone 13 - 1200Hz - 500Hz @ 1Hz (DIN 33 404) 2. XX indicates Beacon colour: 01 - Amber 02 - Red 03 - Blue 04 - Green 05 - White 3. The beacon function is not included within the scope of this approval.	1448a/02
IS-SB-02-XXWH	Intrinsically Safe Fire Alarm Sounder Beacon Type B (White) (HSG6890SA base) Notes: 1. Meets the requirements of EN 54-3:2001 for the following tones - Tone 1 - 970Hz Continuous - Tone 2 - 800Hz/970Hz @ 2Hz - Tone 3 - 800Hz - 970Hz @ 1Hz - Tone 6 - 554Hz, 0.1s / 440Hz, 0.4s (AFNOR NF S 32 001) - Tone 7 - 500 - 1200Hz, 3.5s / 0.5s OFF (NEN 2575:2000 Dutch Slow Whoop) - Tone 13 - 1200Hz - 500Hz @ 1Hz (DIN 33 404) 2. XX indicates Beacon colour: 01 - Amber 02 - Red 03 - Blue 04 - Green 05 - White 3. The beacon function is not included within the scope of this approval.	1448a/02

Bases:
HSG6890SA Time Saver Base
A copy of the certificate, confirming the full scope of approval including notes relating to the superscript references in the above table, may be viewed online by clicking on the product name in the associated entry on www.RedBookLive.com

---

Morley-IAS by Honeywell, Pittway Tecnologica Srl

Charles Avenue, Burgess Hill, West Sussex RH15 9UF
Tel: +44 (0)1444 235556 • Fax: +44 (0)1444 254410
E-mail: sales@morleyias.co.uk • Website: www.morley-ias.co.uk

Certificate No: 567ah-(cl-4) to EN 54-17:2005 & EN 54-23:2010

Audible Warning Devices

Certificated Products		LPCB Ref. No.
MI-WST-PC-I	Analogue addressable wall mounted LED strobe with short circuit isolator (B501AP base) *Notes:* *1. The wall mounted VAD meets the requirements of EN 54-23: 2010 for the following category (light pattern details): - Category O: O-2.4-2 - Flash rate 1Hz* *- Synchronization* *2. Type A with Bcc deep back box, Type B with Wcc deep back box*	567ah/05

Certificated Products		LPCB Ref. No.
MI-BGL-xC-I	Addressable Type A Detector Base Strobe Notes: 1. The Ceiling mounted VAD meets the requirements of EN 54-23:2010 for the following: - Category rating C-3-8.5 - Synchronization - Flash rate 0.5Hz - Red LED - Clear lens 2. x indicates body colour. D=Detector White, P=Pure White	567ah/07
WRL-PC-I05	Wall Mounted Strobe with Red Flash, Clear lens, Isolated - Pure White Body (B501AP) Notes: 1. The Wall mounted VAD meets the requirements of EN 54-23 for the following: - Category rating W-3.6-10.5/W-2.4-10.5 - Synchronization - Flash rate 0.5Hz - Red LED - Clear lens	567ah/08
WRL-RC-I05	Wall Mounted Strobe with Red Flash, Clear lens, Isolated - Red Body (B501AP) Notes: 1. The Wall mounted VAD meets the requirements of EN 54-23 for the following: - Category rating W-3.6-10.5/W-2.4-10.5 - Synchronization - Flash rate 0.5Hz - Red LED - Clear lens	567ah/09
WWL-PC-I05	Wall Mounted Strobe with White Flash, Clear lens, Isolated - Pure White Body (B501AP) Notes: 1. The Wall mounted VAD meets the requirements of EN 54-23 for the following: - Category rating W-3.8-9/W-2.4-9 - Synchronization - Flash rate 0.5Hz - White LED - Clear lens	567ah/10
WWL-RC-I05	Wall Mounted Strobe with White Flash, Clear lens, Isolated - Red Body (B501AP) Notes: 1. The Wall mounted VAD meets the requirements of EN 54-23 for the following: - Category rating W-3.8-9/W-2.4-9 - Synchronization - Flash rate 0.5Hz - White LED - Clear lens	567ah/11

Bases

B501AP-cc Low profile base IP21C, cc indicates colour, Blank=Pure White, IV=Detector White
Bcc Deep base IP44, cc indicates colour, RR=Red, DD=Detector White, PW=Pure White
Wcc Waterproof base IP65, cc indicates colour, RR=Red, DD=Detector White, PW=Pure White
B501AP Mounting Base - Low Profile Base IP21C

A copy of the certificate, confirming the full scope of approval including notes relating to the superscript references in the above table, may be viewed online by clicking on the product name in the associated entry on www.RedBookLive.com

Certificate No: 567z-(cl-4) to EN 54-3: 2014 + A1: 2019 and EN 54-17: 2005

Audible Warning Devices

Certificated Products		LPCB Ref. No.
MI-WSO-xx-I	Analogue addressable Type A/B wall mounted sounder with short circuit isolator (B501AP-cc, Bcc bases, and Wcc bases) Notes: 1. xx indicates body colour. PR=Red, PP=Pure White 2. yy indicates customer and associated communication protocol. 01 indicates Advanced Protocol (and Honeywell 500 series protocol) 00 and 02-99 indicates Advanced Protocol (and System Sensor 500 series protocol) 3. Meets the requirements of EN54-3 for all output levels at voltage range 15-29VDC and tones: 1) 554/440, 2Hz (100ms/400ms); 2) 800/970, 1Hz; 3) 800/970, 2Hz; 4) 2400/2900, 3Hz; 5) 2500/3100, 2Hz; 6) 988/645, 2Hz; 7) 660Hz; 8) 970Hz; 9) 1200Hz; 10) 2850Hz; 11) 150-1000, rise 10s, stable 40s, fall 10s, stable 20s, then repeating; 12) 420Hz, 0.625s on, 0.625 sec off; 13) 500-1200Hz, 0.25 sec off, 3.75 sec on;	567z/09

Certificated Products		LPCB Ref. No.
	14) 660, 3.33Hz, 150ms on, 150ms off; 15) 970, 0.8Hz 0.25s on, 1s off; 16) 970, 0.5Hz 1s on, 1s off; 17) 2850, 1Hz; 18) 970, 1Hz 500ms on, 500ms off; 19) 950, 0.22Hz (0.5s on, 0.5s off) x 3, 1.5s off; 20) 800Hz; 21) 400-1200Hz, (0.5s on, 0.5s off) x 3, 1.5s off; 22) 1200 - 500Hz, 0.99Hz 1s on, 0.01s off; 23) 2400 - 2850, 7Hz; 24) 500 - 1200Hz, (0.5s off, 3.5s on); 25) 800 - 970, 50Hz; 26) 800 - 970, 7Hz; 27) 800 - 970, 1Hz; 28) 2400 - 2850, 50Hz; 29) 500 - 1000, 7Hz; 30) 500 - 1200 - 500, 0.166Hz rise 1s, stable 4s, fall 1s; 31) 800 - 1000, 2Hz; 32) 2400 - 2850, 1Hz. 4. Approved as Type B only when used with Wcc base.	
MI-WSS-xx-I	Analogue addressable Type A/B wall mounted sounder/strobe with short circuit isolator (B501AP-cc, Bcc bases, and Wcc bases) Notes: 1. xx indicates body/lens colour. PR=Red/Red, PA=Amber/Amber, PC=Clear/Clear 2. yy indicates customer and associated communication protocol. 01 indicates Advanced Protocol (and Honeywell 500 series protocol) 00 and 02-99 indicates Advanced Protocol (and System Sensor 500 series protocol) 3. Meets the requirements of EN54-3 for all output levels at voltage range 15-29VDC and tones: 1) 554/440, 2Hz (100ms/400ms); 2) 800/970, 1Hz; 3) 800/970, 2Hz; 4) 2400/2900, 3Hz; 5) 2500/3100, 2Hz; 6) 988/645, 2Hz; 7) 660Hz; 8) 970Hz; 9) 1200Hz; 10) 2850Hz; 11) 150-1000, rise 10s, stable 40s, fall 10s, stable 20s, then repeating; 12) 420Hz, 0.625s on, 0.625 sec off; 13) 500-1200Hz, 0.25 sec off, 3.75 sec on; 14) 660, 3.33Hz, 150ms on, 150ms off; 15) 970, 0.8Hz 0.25s on, 1s off; 16) 970, 0.5Hz 1s on, 1s off; 17) 2850, 1Hz; 18) 970, 1Hz 500ms on, 500ms off; 19) 950, 0.22Hz (0.5s on, 0.5s off) x 3, 1.5s off; 20) 800Hz; 21) 400-1200Hz, (0.5s on, 0.5s off) x 3, 1.5s off; 22) 1200 - 500Hz, 0.99Hz 1s on, 0.01s off; 23) 2400 - 2850, 7Hz; 24) 500 - 1200Hz, (0.5s off, 3.5s on); 25) 800 - 970, 50Hz; 26) 800 - 970, 7Hz; 27) 800 - 970, 1Hz; 28) 2400 - 2850, 50Hz; 29) 500 - 1000, 7Hz; 30) 500 - 1200 - 500, 0.166Hz rise 1s, stable 4s, fall 1s; 31) 800 - 1000, 2Hz; 32) 2400 - 2850, 1Hz. 4. Certification excludes the strobe function. 5. Approved as Type B only when used with Wcc base.	567z/10
MI-BSO-xx-I	Analogue addressable Type A integrated detector base sounder with short circuit isolator (B501AP-cc, Bcc and Wcc bases) Notes: 1. xx indicates body colour. PP=Pure White, DD=Detector White 2. yy indicates customer and associated communication protocol. 01 indicates Advanced Protocol (and Honeywell 500 series protocol) 00 and 02-99 indicates Advanced Protocol (and System Sensor 500 series protocol) 3. Meets the requirements of EN54-3 for all output levels at voltage range 15-29VDC and tones: 1) 554/440, 2Hz (100ms/400ms); 2) 800/970, 1Hz; 3) 800/970, 2Hz; 4) 2400/2900, 3Hz; 5) 2500/3100, 2Hz; 6) 988/645, 2Hz; 7) 660Hz; 8) 970Hz; 9) 1200Hz; 10) 2850Hz; 11) 150-1000, rise 10s, stable 40s, fall 10s, stable 20s, then repeating; 12) 420Hz, 0.625s on, 0.625 sec off; 13) 500-1200Hz, 0.25 sec off, 3.75 sec on; 14) 660, 3.33Hz, 150ms on, 150ms off; 15) 970, 0.8Hz 0.25s on, 1s off; 16) 970, 0.5Hz 1s on, 1s off; 17) 2850, 1Hz; 18) 970, 1Hz 500ms on, 500ms off; 19) 950, 0.22Hz (0.5s on, 0.5s off) x 3, 1.5s off; 20) 800Hz; 21) 400-1200Hz, (0.5s on, 0.5s off) x 3, 1.5s off; 22) 1200 - 500Hz, 0.99Hz 1s on, 0.01s off; 23) 2400 - 2850, 7Hz; 24) 500 - 1200Hz, (0.5s off, 3.5s on); 25) 800 - 970, 50Hz; 26) 800 - 970, 7Hz; 27) 800 - 970, 1Hz; 28) 2400 - 2850, 50Hz; 29) 500 - 1000, 7Hz; 30) 500 - 1200 - 500, 0.166Hz rise 1s, stable 4s, fall 1s; 31) 800 - 1000, 2Hz; 32) 2400 - 2850, 1Hz.	567z/11
MI-BSS-xx-I	Analogue addressable Type A integrated detector base sounder/strobe with short circuit	567z/12

Certificated Products		LPCB Ref. No.
	isolator (B501AP-cc, Bcc and Wcc bases) Notes: 1. xx indicates body/lens colour. PR=Pure White/Red, PA=Pure White/Amber, PC=Pure White/Clear, DR=Detector White/Red, DA=Detector White/Amber, DC=Detector White/Clear 2. yy indicates customer and associated communication protocol. 01 indicates Advanced Protocol (and Honeywell 500 series protocol) 00 and 02-99 indicates Advanced Protocol (and System Sensor 500 series protocol) 3. Meets the requirements of EN54-3 for all output levels at voltage range 15-29VDC and tones: 1) 554/440, 2Hz (100ms/400ms); 2) 800/970, 1Hz; 3) 800/970, 2Hz; 4) 2400/2900, 3Hz; 5) 2500/3100, 2Hz; 6) 988/645, 2Hz; 7) 660Hz; 8) 970Hz; 9) 1200Hz; 10) 2850Hz; 11) 150-1000, rise 10s, stable 40s, fall 10s, stable 20s, then repeating; 12) 420Hz, 0.625s on, 0.625 sec off; 13) 500-1200Hz, 0.25 sec off, 3.75 sec on; 14) 660, 3.33Hz, 150ms on, 150ms off; 15) 970, 0.8Hz 0.25s on, 1s off; 16) 970, 0.5Hz 1s on, 1s off; 17) 2850, 1Hz; 18) 970, 1Hz 500ms on, 500ms off; 19) 950, 0.22Hz (0.5s on, 0.5s off) x 3, 1.5s off; 20) 800Hz; 21) 400-1200Hz, (0.5s on, 0.5s off) x 3, 1.5s off; 22) 1200 - 500Hz, 0.99Hz 1s on, 0.01s off; 23) 2400 - 2850, 7Hz; 24) 500 - 1200Hz, (0.5s off, 3.5s on); 25) 800 - 970, 50Hz; 26) 800 - 970, 7Hz; 27) 800 - 970, 1Hz; 28) 2400 - 2850, 50Hz; 29) 500 - 1000, 7Hz; 30) 500 - 1200 - 500, 0.166Hz rise 1s, stable 4s, fall 1s; 31) 800 - 1000, 2Hz; 32) 2400 - 2850, 1Hz. 4. Certification excludes the strobe function.	

Bases

Bcc	Deep base IP44, cc indicates colour, RR=Red, DD=Detector White, PW=Pure White
Wcc	Waterproof base IP65, cc indicates colour, RR=Red, DD=Detector White, PW=Pure White
B501AP	Mounting Base - Low Profile Base IP21C

A copy of the certificate, confirming the full scope of approval including notes relating to the superscript references in the above table, may be viewed online by clicking on the product name in the associated entry on www.RedBookLive.com

Certificate No: 567aw-(cl-3) to EN 54-3: 2014 + A1: 2019

Audible Warning Devices

Certificated Products		LPCB Ref. No.
MI-WSO-xx-N	Analogue addressable Type A/B wall mounted sounder (B501AP-cc, Bcc bases, and Wcc bases) Notes: 1. xx indicates body colour. PR=Red, PP=Pure White 2. yy indicates customer and associated communication protocol. 01 indicates Advanced Protocol (and Honeywell 500 series protocol) 00 and 02-99 indicates Advanced Protocol (and System Sensor 500 series protocol) 3. Meets the requirements of EN54-3 for all output levels at voltage range 15-32VDC and tones: 1) 554/440, 2Hz (100ms/400ms); 2) 800/970, 1Hz; 3) 800/970, 2Hz; 4) 2400/2900, 3Hz; 5) 2500/3100, 2Hz; 6) 988/645, 2Hz; 7) 660Hz; 8) 970Hz; 9) 1200Hz; 10) 2850Hz; 11) 150-1000, rise 10s, stable 40s, fall 10s, stable 20s, then repeating; 12) 420Hz, 0.625s on, 0.625 sec off; 13) 500-1200Hz, 0.25 sec off, 3.75 sec on; 14) 660, 3.33Hz, 150ms on, 150ms off; 15) 970, 0.8Hz 0.25s on, 1s off; 16) 970, 0.5Hz 1s on, 1s off; 17) 2850, 1Hz; 18) 970, 1Hz 500ms on, 500ms off; 19) 950, 0.22Hz (0.5s on, 0.5s off) x 3, 1.5s off; 20) 800Hz; 21) 400-1200Hz, (0.5s on, 0.5s off) x 3, 1.5s off; 22) 1200 - 500Hz, 0.99Hz 1s on, 0.01s off; 23) 2400 - 2850, 7Hz; 24) 500 - 1200Hz, (0.5s off, 3.5s on); 25) 800 - 970, 50Hz; 26) 800 - 970, 7Hz; 27) 800 - 970, 1Hz; 28) 2400 - 2850, 50Hz;	567aw/09

Certificated Products		LPCB Ref. No.
	29) 500 - 1000, 7Hz; 30) 500 - 1200 - 500, 0.166Hz rise 1s, stable 4s, fall 1s; 31) 800 - 1000, 2Hz; 32) 2400 - 2850, 1Hz. 4. Approved as Type B only when used with Wcc base.	
MI-WSS-xx-N	Analogue addressable Type A/B wall mounted sounder/strobe (B501AP-cc, Bcc, and Wcc bases) Notes: 1. xx indicates body/lens colour. PR=Red/Red, PA=Amber/Amber, PC=Clear/Clear 2. yy indicates customer and associated communication protocol. 01 indicates Advanced Protocol (and Honeywell 500 series protocol) 00 and 02-99 indicates Advanced Protocol (and System Sensor 500 series protocol) 3. Meets the requirements of EN54-3 for all output levels at voltage range 15-32VDC and tones: 1) 554/440, 2Hz (100ms/400ms); 2) 800/970, 1Hz; 3) 800/970, 2Hz; 4) 2400/2900, 3Hz; 5) 2500/3100, 2Hz; 6) 988/645, 2Hz; 7) 660Hz; 8) 970Hz; 9) 1200Hz; 10) 2850Hz; 11) 150-1000, rise 10s, stable 40s, fall 10s, stable 20s, then repeating; 12) 420Hz, 0.625s on, 0.625 sec off; 13) 500-1200Hz, 0.25 sec off, 3.75 sec on; 14) 660, 3.33Hz, 150ms on, 150ms off; 15) 970, 0.8Hz 0.25s on, 1s off; 16) 970, 0.5Hz 1s on, 1s off; 17) 2850, 1Hz; 18) 970, 1Hz 500ms on, 500ms off; 19) 950, 0.22Hz (0.5s on, 0.5s off) x 3, 1.5s off; 20) 800Hz; 21) 400-1200Hz, (0.5s on, 0.5s off) x 3, 1.5s off; 22) 1200 - 500Hz, 0.99Hz 1s on, 0.01s off; 23) 2400 - 2850, 7Hz; 24) 500 - 1200Hz, (0.5s off, 3.5s on); 25) 800 - 970, 50Hz; 26) 800 - 970, 7Hz; 27) 800 - 970, 1Hz; 28) 2400 - 2850, 50Hz; 29) 500 - 1000, 7Hz; 30) 500 - 1200 - 500, 0.166Hz rise 1s, stable 4s, fall 1s; 31) 800 - 1000, 2Hz; 32) 2400 - 2850, 1Hz. 4. Certification excludes the strobe function. 5. Approved as Type B only when used with Wcc base.	567aw/10
MI-BSO-xx-N	Analogue addressable Type A integrated detector base sounder (B501AP-cc, Bcc and Wcc bases) Notes: 1. xx indicates body colour. PP=Pure White, DD=Detector White 2. yy indicates customer and associated communication protocol. 01 indicates Advanced Protocol (and Honeywell 500 series protocol) 00 and 02-99 indicates Advanced Protocol (and System Sensor 500 series protocol) 3. Meets the requirements of EN54-3 for all output levels at voltage range 15-32VDC and tones: 1) 554/440, 2Hz (100ms/400ms); 2) 800/970, 1Hz; 3) 800/970, 2Hz; 4) 2400/2900, 3Hz; 5) 2500/3100, 2Hz; 6) 988/645, 2Hz; 7) 660Hz; 8) 970Hz; 9) 1200Hz; 10) 2850Hz; 11) 150-1000, rise 10s, stable 40s, fall 10s, stable 20s, then repeating; 12) 420Hz, 0.625s on, 0.625 sec off; 13) 500-1200Hz, 0.25 sec off, 3.75 sec on; 14) 660, 3.33Hz, 150ms on, 150ms off; 15) 970, 0.8Hz 0.25s on, 1s off; 16) 970, 0.5Hz 1s on, 1s off; 17) 2850, 1Hz; 18) 970, 1Hz 500ms on, 500ms off; 19) 950, 0.22Hz (0.5s on, 0.5s off) x 3, 1.5s off; 20) 800Hz; 21) 400-1200Hz, (0.5s on, 0.5s off) x 3, 1.5s off; 22) 1200 - 500Hz, 0.99Hz 1s on, 0.01s off; 23) 2400 - 2850, 7Hz; 24) 500 - 1200Hz, (0.5s off, 3.5s on); 25) 800 - 970, 50Hz; 26) 800 - 970, 7Hz; 27) 800 - 970, 1Hz; 28) 2400 - 2850, 50Hz; 29) 500 - 1000, 7Hz; 30) 500 - 1200 - 500, 0.166Hz rise 1s, stable 4s, fall 1s; 31) 800 - 1000, 2Hz; 32) 2400 - 2850, 1Hz.	567aw/11
MI-BSS-xx-N	Analogue addressable Type A integrated detector base sounder/strobe (B501AP-cc, Bcc and Wcc bases) Notes: 1. xx indicates body/lens colour. PR=Pure White/Red, PA=Pure White/Amber, PC=Pure White/Clear, DR=Detector White/Red, DA=Detector White/Amber, DC=Detector White/Clear 2. yy indicates customer and associated communication protocol. 01 indicates Advanced Protocol (and Honeywell 500 series protocol) 00 and 02-99 indicates Advanced Protocol (and System Sensor 500 series protocol)	567aw/12

Certificated Products		LPCB Ref. No.
	3. Meets the requirements of EN54-3 for all output levels at voltage range 15-32VDC and tones: 1) 554/440, 2Hz (100ms/400ms); 2) 800/970, 1Hz; 3) 800/970, 2Hz; 4) 2400/2900, 3Hz; 5) 2500/3100, 2Hz; 6) 988/645, 2Hz; 7) 660Hz; 8) 970Hz; 9) 1200Hz; 10) 2850Hz; 11) 150-1000, rise 10s, stable 40s, fall 10s, stable 20s, then repeating; 12) 420Hz, 0.625s on, 0.625 sec off; 13) 500-1200Hz, 0.25 sec off, 3.75 sec on; 14) 660, 3.33Hz, 150ms on, 150ms off; 15) 970, 0.8Hz 0.25s on, 1s off; 16) 970, 0.5Hz 1s on, 1s off; 17) 2850, 1Hz; 18) 970, 1Hz 500ms on, 500ms off; 19) 950, 0.22Hz (0.5s on, 0.5s off) x 3, 1.5s off; 20) 800Hz; 21) 400-1200Hz, (0.5s on, 0.5s off) x 3, 1.5s off; 22) 1200 - 500Hz, 0.99Hz 1s on, 0.01s off; 23) 2400 - 2850, 7Hz; 24) 500 - 1200Hz, (0.5s off, 3.5s on); 25) 800 - 970, 50Hz; 26) 800 - 970, 7Hz; 27) 800 - 970, 1Hz; 28) 2400 - 2850, 50Hz; 29) 500 - 1000, 7Hz; 30) 500 - 1200 - 500, 0.166Hz rise 1s, stable 4s, fall 1s; 31) 800 - 1000, 2Hz; 32) 2400 - 2850, 1Hz. 4. Certification excludes the strobe function.	

Bases

Bcc Deep base IP44, cc indicates colour, RR=Red, DD=Detector White, PW=Pure White
Wcc Waterproof base IP65, cc indicates colour, RR=Red, DD=Detector White, PW=Pure White
B501AP Mounting Base - Low Profile Base IP21C

A copy of the certificate, confirming the full scope of approval including notes relating to the superscript references in the above table, may be viewed online by clicking on the product name in the associated entry on www.RedBookLive.com

Certificate No: 567ax-(cl-3) to EN 54-23:2010

Audible Warning Devices

Certificated Products		LPCB Ref. No.
MI-VAD-WC-N	Analogue Addressable High Output Beacon (B501AP base) Notes: 1. The ceiling / wall mounted VAD meets the requirements of EN 54-23: 2010 for the following categories (light pattern details): - Category C: C-3-5.1, C-6-5.1, C-9-5.1 - Category W: W-2.4-2.76 - Flash rate 0.5Hz - Synchronization 2. Type A indoor use with B501AP only, Type B outdoor use with B501AP and WRR or WPW	567ax/06
MI-WST-PC-N	Analogue addressable wall mounted LED strobe (B501AP base) Notes: 1. The wall mounted VAD meets the requirements of EN 54-23: 2010 for the following category (light pattern details): - Category O: O-2.4-2 - Flash rate 1Hz - Synchronization 2. Type A with Bcc deep back box, Type B with Wcc deep back box	567ax/05

Bases

Bcc Deep base IP44, cc indicates colour, RR=Red, DD=Detector White, PW=Pure White
Wcc Waterproof base IP65, cc indicates colour, RR=Red, DD=Detector White, PW=Pure White
B501AP Mounting Base - Low Profile Base IP21C
A copy of the certificate, confirming the full scope of approval including notes relating to the superscript references in the above table, may be viewed online by clicking on the product name in the associated entry on www.RedBookLive.com

Certificate No: 567ag-(cl-4) to EN 54-3:2014 + A1:2019 & EN 54-17:2005 & EN 54-23:2010

Visual & Audible Warning Devices

Certificated Products		LPCB Ref. No.
MI-WSS-PC-I	Analogue addressable wall mounted sounder / LED strobe with short circuit isolator (B501AP base) Notes:	567ag/21

Certificated Products		LPCB Ref. No.
	1. The wall mounted VAD meets the requirements of EN 54-23: 2010 for the following category (light pattern details): - Category O - Open Class - Flash rate 1Hz - Synchronization 2. PC=Pure White/Clear indicates body/lens colour. 3. Type A with Bcc deep back box, Type B with Wcc deep back box 4. Meets the requirements of EN54-3: 2001 at the following tones: 1) Alternating 525/440, 2Hz (100ms/400ms); 2) Alternating 800/922, 1Hz; 3) Alternating 800/922, 2Hz; 4) Alternating 2400/2900, 3Hz; 5) Alternating 2500/3100, 2Hz; 6) Alternating 988/645, 2Hz; 7) Continuous 630Hz; 8) Continuous 922Hz; 9) Continuous 1200Hz; 10) Continuous 2810Hz; 11) Sweep 150-1000Hz, rise 10s, stable 40s, fall 10s, stable 20s, then repeating; 12) Intermittent 420Hz, 0.625s on, 0.625 sec off; 13) Sweep 500-1200Hz, 0.25 sec off, 3.75 sec on; 14) Intermittent 630, 3.33Hz, 150ms on, 150ms off; 15) Intermittent 922, 0.8Hz 0.25s on, 1s off; 16) Intermittent 922, 0.5Hz 1s on, 1s off; 17) Intermittent 2810, 1Hz; 18) Intermittent 922, 1Hz 500ms on, 500ms off; 19) Intermittent 950, 0.22Hz (0.5s on, 0.5s off) x 3, 1.5s off; 20) Continuous 800Hz; 21) Sweep 400-1200Hz, (0.5s on, 0.5s off) x 3, 1.5s off; 22) Sweep 1200 - 500Hz, 0.99Hz 1s on, 0.01s off; 23) Sweep 2400 - 2850, 7Hz; 24) Sweep 500 - 1200Hz, (0.5s off, 3.5s on); 25) Sweep 800 - 970, 50Hz; 26) Sweep 800 - 970, 7Hz; 27) Sweep 800 - 970, 1Hz; 28) Sweep 2400 - 2850, 50Hz; 29) Sweep 500 - 1000, 7Hz; 30) Sweep 500 - 1200 - 500, 0.166Hz rise 1s, stable 4s, fall 1s; 31) Sweep 800 - 1000, 2Hz; 32) Sweep 2400 - 2850, 1Hz	
MI-DSS-PC-I	Analogue Addressable Type A Integrated Detector Base Sounder/Beacon with Short Circuit Isolator (B501AP base) Notes: 1. The wall mounted VAD meets the requirements of EN 54-23: 2010 for the following category (light pattern details): - Category O - Open Class - Flash rate 1Hz - Synchronization 2. PC=Pure White/Clear indicates body/lens colour. 3. Advanced Protocol (and Honeywell 500 series protocol) 4. Meets the requirements of EN54-3 for all output levels at voltage range 15-29VDC and tones: 1) 554/440, 2Hz (100ms/400ms); 2) 800/970, 1Hz; 3) 800/970, 2Hz; 4) 2400/2900, 3Hz; 5) 2500/3100, 2Hz; 6) 988/645, 2Hz; 7) 660Hz; 8) 970Hz; 9) 1200Hz; 10) 2850Hz; 11) 150-1000, rise 10s, stable 40s, fall 10s, stable 20s, then repeating; 12) 420Hz, 0.625s on, 0.625 sec off; 13) 500-1200Hz, 0.25 sec off, 3.75 sec on; 14) 660, 3.33Hz, 150ms on, 150ms off; 15) 970, 0.8Hz 0.25s on, 1s off; 16) 970, 0.5Hz 1s on, 1s off; 17) 2850, 1Hz; 18) 970, 1Hz 500ms on, 500ms off; 19) 950, 0.22Hz (0.5s on, 0.5s off) x 3, 1.5s off;	567ag/22

Certificated Products		LPCB Ref. No.
	20) 800Hz; 21) 400-1200Hz, (0.5s on, 0.5s off) x 3, 1.5s off; 22) 1200 - 500Hz, 0.99Hz 1s on, 0.01s off; 23) 2400 - 2850, 7Hz; 24) 500 - 1200Hz, (0.5s off, 3.5s on); 25) 800 - 970, 50Hz; 26) 800 - 970, 7Hz; 27) 800 - 970, 1Hz; 28) 2400 - 2850, 50Hz; 29) 500 - 1000, 7Hz; 30) 500 - 1200 - 500, 0.166Hz rise 1s, stable 4s, fall 1s; 31) 800 - 1000, 2Hz; 32) 2400 - 2850, 1Hz.	
MI-BRH-xC-I	Addressable Type A Detector Base Sounder Strobe Notes: 1. x indicates body colour. D = Detector White, P=Pure White 2. Meets the requirements of EN 54-3:2001 for the following tones: Tone 1 - Alternating 525 / 440Hz in 100ms/400ms Tone 2 - Alternating 800 / 922Hz for 1Hz Tone 3 - Alternating 800 / 922Hz for 2Hz Tone 4 - Alternating 2400 / 2900Hz for 3Hz Tone 5 - Alternating 2500 / 3100Hz for 2Hz Tone 6 - Alternating 988 / 645Hz for 2Hz Tone 7 - Continuous 630Hz Tone 8 - Continuous 922Hz Tone 9 - Continuous 1200Hz Tone 10 - Continuous 2810Hz Tone 11 - Sweep 150-1000-500Hz Rising from 500Hz to 1000Hz in 10s, Hold 100Hz for 40s Falling from 100Hz to 500Hz in 10s, Hold 500Hz for 20s Tone 12 - Intermittent 420Hz for 150ms on, 150ms off Tone 13 - Sweep 500-1200Hz Rising from 500Hz to 1200Hz in 0.25s, then 3.75s off Tone 14 - Intermittent 630Hz for 150ms on, 150ms off Tone 15 - Intermittent 922Hz for 0.25s on, 1s off Tone 16 - Intermittent 922Hz for 1s on, 1s off Tone 17 - Intermittent 2810Hz for 1Hz Tone 18 - Intermittent 922Hz for 500ms on, 500ms off Tone 19 - Intermittent 950Hz for 500ms on, 500ms off. Repeat 3 times then 1.5s off Tone 20 - Continuous 800Hz Tone 21 - Sweep 400-1200Hz Rising from 400Hz to 1200Hz in 500ms, then 500ms off. Repeat 3 times then 1.5s off Tone 22 - Sweep 1200-500Hz Falling from 1200Hz to 500Hz in 1000ms, 10ms off Tone 23 - Sweep 2400-2850Hz for 7Hz Tone 24 - Sweep 500-1200Hz Rising from 500Hz to 1200Hs in 0.5s, then 3.5s off Tone 25 - Sweep 800-970Hz for 50Hz Tone 26 - Sweep 800-970Hz for 7Hz Tone 27 - Sweep 800-970Hz for 1Hz Tone 28 - Sweep 2400-2850Hz for 50Hz Tone 29 - Sweep 500-1000Hz for 7Hz Tone 30 - Sweep 500-1200-500Hz Rising from 500Hz to 1200Hz in 1s, Hold 1200Hz for 4s Falling from 1200Hz to 500Hz in 1s Tone 31 - Sweep 800-1000Hz for 2Hz Tone 32 - Sweep 2400-2850Hz for 1Hz 3. The Ceiling mounted VAD meets the requirements of EN 54-23:2010 for the following: - Category ratings High C-3-15, Low C-3-11 & O-1-4 - Synchronization - Flash rate 0.5Hz & 1Hz - Red LED - Clear lens	567ag/23
MI-BRS-xC-I	Addressable Type A Detector Base Sounder Strobe Notes: 1. x indicates body colour. D = Detector White, P=Pure White 2. Meets the requirements of EN 54-3:2001 for the following tones: Tone 1 - Alternating 525 / 440Hz in 100ms/400ms Tone 2 - Alternating 800 / 922Hz for 1Hz Tone 3 - Alternating 800 / 922Hz for 2Hz Tone 4 - Alternating 2400 / 2900Hz for 3Hz Tone 5 - Alternating 2500 / 3100Hz for 2Hz Tone 6 - Alternating 988 / 645Hz for 2Hz Tone 7 - Continuous 630Hz	567ag/24

Certificated Products		LPCB Ref. No.
	Tone 8 - Continuous 922Hz Tone 9 - Continuous 1200Hz Tone 10 - Continuous 2810Hz Tone 11 - Sweep 150-1000-500Hz Rising from 500Hz to 1000Hz in 10s, Hold 100Hz for 40s Falling from 100Hz to 500Hz in 10s, Hold 500Hz for 20s Tone 12 - Intermittent 420Hz for 150ms on, 150ms off Tone 13 - Sweep 500-1200Hz Rising from 500Hz to 1200Hz in 0.25s, then 3.75s off Tone 14 - Intermittent 630Hz for 150ms on, 150ms off Tone 15 - Intermittent 922Hz for 0.25s on, 1s off Tone 16 - Intermittent 922Hz for 1s on, 1s off Tone 17 - Intermittent 2810Hz for 1Hz Tone 18 - Intermittent 922Hz for 500ms on, 500ms off Tone 19 - Intermittent 950Hz for 500ms on, 500ms off. Repeat 3 times then 1.5s off Tone 20 - Continuous 800Hz Tone 21 - Sweep 400-1200Hz Rising from 400Hz to 1200Hz in 500ms, then 500ms off. Repeat 3 times then 1.5s off Tone 22 - Sweep 1200-500Hz Falling from 1200Hz to 500Hz in 1000ms, 10ms off Tone 23 - Sweep 2400-2850Hz for 7Hz Tone 24 - Sweep 500-1200Hz Rising from 500Hz to 1200Hs in 0.5s, then 3.5s off Tone 25 - Sweep 800-970Hz for 50Hz Tone 26 - Sweep 800-970Hz for 7Hz Tone 27 - Sweep 800-970Hz for 1Hz Tone 28 - Sweep 2400-2850Hz for 50Hz Tone 29 - Sweep 500-1000Hz for 7Hz Tone 30 - Sweep 500-1200-500Hz Rising from 500Hz to 1200Hz in 1s, Hold 1200Hz for 4s Falling from 1200Hz to 500Hz in 1s Tone 31 - Sweep 800-1000Hz for 2Hz Tone 32 - Sweep 2400-2850Hz for 1Hz 3. The Ceiling mounted VAD meets the requirements of EN 54-23:2010 for the following: - Category ratings C-3-8.5 & O-1-3 - Synchronization - Flash rate 0.5Hz & 1Hz - Red LED - Clear lens	

Bases

Bcc	Deep base IP44, cc indicates colour, RR=Red, DD=Detector White, PW=Pure White
Wcc	Waterproof base IP65, cc indicates colour, RR=Red, DD=Detector White, PW=Pure White
B501AP	Mounting Base - Low Profile Base IP21C

A copy of the certificate, confirming the full scope of approval including notes relating to the superscript references in the above table, may be viewed online by clicking on the product name in the associated entry on www.RedBookLive.com

Certificate No: 567ay-(cl-3) to EN 54-3:2014 + A1:2019 & EN 54-23:2010

Visual & Audible Warning Devices

Certificated Products		LPCB Ref. No.
MI-WSS-PC-N	Analogue Addressable Wall Mounted Sounder / LED Strobe (B501AP base) Notes: 1. The wall mounted VAD meets the requirements of EN 54-23: 2010 for the following category (light pattern details): - Category O - Open Class - Flash rate 1Hz - Synchronization 2. PC=Pure White/Clear indicates body/lens colour. 3. Type A with Bcc deep back box, Type B with Wcc deep back box 4. Meets the requirements of EN54-3: 2001 at the following tones: 1) Alternating 525/440, 2Hz (100ms/400ms); 2) Alternating 800/922, 1Hz; 3) Alternating 800/922, 2Hz; 4) Alternating 2400/2900, 3Hz; 5) Alternating 2500/3100, 2Hz; 6) Alternating 988/645, 2Hz; 7) Continuous 630Hz; 8) Continuous 922Hz;	567ay/07

Certificated Products		LPCB Ref. No.
	9) Continuous 1200Hz; 10) Continuous 2810Hz; 11) Sweep 150-1000Hz, rise 10s, stable 40s, fall 10s, stable 20s, then repeating; 12) Intermittent 420Hz, 0.625s on, 0.625 sec off; 13) Sweep 500-1200Hz, 0.25 sec off, 3.75 sec on; 14) Intermittent 630, 3.33Hz, 150ms on, 150ms off; 15) Intermittent 922, 0.8Hz 0.25s on, 1s off; 16) Intermittent 922, 0.5Hz 1s on, 1s off; 17) Intermittent 2810, 1Hz; 18) Intermittent 922, 1Hz 500ms on, 500ms off; 19) Intermittent 950, 0.22Hz (0.5s on, 0.5s off) x 3, 1.5s off; 20) Continuous 800Hz; 21) Sweep 400-1200Hz, (0.5s on, 0.5s off) x 3, 1.5s off; 22) Sweep 1200 - 500Hz, 0.99Hz 1s on, 0.01s off; 23) Sweep 2400 - 2850, 7Hz; 24) Sweep 500 - 1200Hz, (0.5s off, 3.5s on); 25) Sweep 800 - 970, 50Hz; 26) Sweep 800 - 970, 7Hz; 27) Sweep 800 - 970, 1Hz; 28) Sweep 2400 - 2850, 50Hz; 29) Sweep 500 - 1000, 7Hz; 30) Sweep 500 - 1200 - 500, 0.166Hz rise 1s, stable 4s, fall 1s; 31) Sweep 800 - 1000, 2Hz; 32) Sweep 2400 - 2850, 1Hz	
MI-DSS-PC-N	Analogue Addressable Type A Integrated Detector Base Sounder/Beacon (B501AP base) Notes: 1. The wall mounted VAD meets the requirements of EN 54-23: 2010 for the following category (light pattern details): - Category O - Open Class - Flash rate 1Hz - Synchronization 2. PC=Pure White/Clear indicates body/lens colour. 3. Advanced Protocol (and Honeywell 500 series protocol) 4. Meets the requirements of EN54-3 for all output levels at voltage range 15-32VDC and tones: 1) 554/440, 2Hz (100ms/400ms); 2) 800/970, 1Hz; 3) 800/970, 2Hz; 4) 2400/2900, 3Hz; 5) 2500/3100, 2Hz; 6) 988/645, 2Hz; 7) 660Hz; 8) 970Hz; 9) 1200Hz; 10) 2850Hz; 11) 150-1000, rise 10s, stable 40s, fall 10s, stable 20s, then repeating; 12) 420Hz, 0.625s on, 0.625 sec off; 13) 500-1200Hz, 0.25 sec off, 3.75 sec on; 14) 660, 3.33Hz, 150ms on, 150ms off; 15) 970, 0.8Hz 0.25s on, 1s off; 16) 970, 0.5Hz 1s on, 1s off; 17) 2850, 1Hz; 18) 970, 1Hz 500ms on, 500ms off; 19) 950, 0.22Hz (0.5s on, 0.5s off) x 3, 1.5s off; 20) 800Hz; 21) 400-1200Hz, (0.5s on, 0.5s off) x 3, 1.5s off; 22) 1200 - 500Hz, 0.99Hz 1s on, 0.01s off; 23) 2400 - 2850, 7Hz; 24) 500 - 1200Hz, (0.5s off, 3.5s on); 25) 800 - 970, 50Hz; 26) 800 - 970, 7Hz; 27) 800 - 970, 1Hz; 28) 2400 - 2850, 50Hz; 29) 500 - 1000, 7Hz; 30) 500 - 1200 - 500, 0.166Hz rise 1s, stable 4s, fall 1s; 31) 800 - 1000, 2Hz; 32) 2400 - 2850, 1Hz.	567ay/08

Bases

Bcc	Deep base IP44, cc indicates colour, RR=Red, DD=Detector White, PW=Pure White

Wcc Waterproof base IP65, cc indicates colour, RR=Red, DD=Detector White, PW=Pure White
B501AP Mounting Base - Low Profile Base IP21C

A copy of the certificate, confirming the full scope of approval including notes relating to the superscript references in the above table, may be viewed online by clicking on the product name in the associated entry on www.RedBookLive.com

Certificate No: 567az-(cl-2) to EN 54-3:2014 + A1:2019, EN 54-17:2005, EN 54-23:2010

Visual & Audible Warning Devices

Certificated Products		**LPCB Ref. No.**
WRA-PC-I05	Wall Mounted Sounder Strobe with Red Flash, Clear Lens, Isolated - Pure White Body (B501AP) Notes: 1. Meets the requirements of EN 54-23 at the following power settings: - Low red output - Medium red output - High red output 2. The wall mounted Visual Alarm Device (VAD) meets the requirements of EN 54-23 for the following light pattern details: - High Performance setting - (Category W-4.2-11.5/W-2.4-11.5) - Medium Performance setting - (Category W-3.6-10.5/W-2.4-10.5) - Low Performance setting - (Category O-2.4-3) - Synchronization - Flash rate (0.5Hz & 1Hz) 3. Meets the requirements of EN 54-3 at the following tones: 1 - Alternating 554/440 2Hz (100ms/400ms) 2 - Alternating 800/922 1Hz 3 - Alternating 800/922 2 Hz 4 - Alternating 2400/2900 3Hz 5 - Alternating 2500/3100 2Hz 6 - Alternating 988/645 2Hz 7 - Continuous 630 8 - Continuous 922 9 - Continuous 1200 10 - Continuous 2810 11 - Sweep 150-1000 Rising from 150Hz to 1Khz in 10s, 40s@1KHz, falling from 1KHz to 150Hz in 10s, 20s@150Hz. Period 80s 12 - Intermittent 420 0.625s on, 0.625s off 13 - Sweep 500-1200 0.25s off, 3.75s on 14 - Intermittent 630 3.33Hz 150ms on, 150ms off 15 - Intermittent 922 0.8Hz 0.25s on, 1s off 16 - Intermittent 922 0.5Hz 1s on, 1s off 17 - Intermittent 2810 1Hz 18 - Intermittent 922 1Hz 500ms on, 500ms off 19 - Intermittent 950 0.22Hz (0.5s on, 0.5s off) rptx3, 1.5s off 20 - Continuous 800 21 - Sweep 400-1200 (0.5s on, 0.5s off)*3, 1.5s off 22- Sweep 1200-500 0.99Hz 1s on, 0.01s off 23 - Sweep 2400-2850 7Hz 24 - Sweep 500-1200 (0.5s off, 3.5s on) 25 - Sweep 800-970 50Hz 26 - Sweep 800-970 7Hz 27 - Sweep 800-970 1Hz 28 - Sweep 2400-2850 50Hz 29 - Sweep 500-1000 7Hz 30 - Sweep 500-1200-500 0.166Hz rise 1s, stable 4s, fall 1s 31 - Sweep 800-1000 2Hz 32 - Sweep 2400-2850 1Hz	567az/01
WRA-RC-I05	Wall Mounted Sounder Strobe with Red Flash, Clear Lens, Isolated - Red Body (B501AP) Notes: 1. Meets the requirements of EN 54-23 at the following power settings: - Low red output - Medium red output - High red output 2. The wall mounted Visual Alarm Device (VAD) meets the requirements of EN 54-23 for the following light pattern details: - High Performance setting - (Category W-4.2-11.5/W-2.4-11.5) - Medium Performance setting - (Category W-3.6-10.5/W-2.4-10.5) - Low Performance setting - (Category O-2.4-3) - Synchronization - Flash rate (0.5Hz & 1Hz)	567az/02

Certificated Products		LPCB Ref. No.
	3. Meets the requirements of EN 54-3 at the following tones: 1 - Alternating 554/440 2Hz (100ms/400ms) 2 - Alternating 800/922 1Hz 3 - Alternating 800/922 2 Hz 4 - Alternating 2400/2900 3Hz 5 - Alternating 2500/3100 2Hz 6 - Alternating 988/645 2Hz 7 - Continuous 630 8 - Continuous 922 9 - Continuous 1200 10 - Continuous 2810 11 - Sweep 150-1000 Rising from 150Hz to 1Khz in 10s, 40s@1KHz, falling from 1KHz to 150Hz in 10s, 20s@150Hz. Period 80s 12 - Intermittent 420 0.625s on, 0.625s off 13 - Sweep 500-1200 0.25s off, 3.75s on 14 - Intermittent 630 3.33Hz 150ms on, 150ms off 15 - Intermittent 922 0.8Hz 0.25s on, 1s off 16 - Intermittent 922 0.5Hz 1s on, 1s off 17 - Intermittent 2810 1Hz 18 - Intermittent 922 1Hz 500ms on, 500ms off 19 - Intermittent 950 0.22Hz (0.5s on, 0.5s off) rptx3, 1.5s off 20 - Continuous 800 21 - Sweep 400-1200 (0.5s on, 0.5s off)*3, 1.5s off 22- Sweep 1200-500 0.99Hz 1s on, 0.01s off 23 - Sweep 2400-2850 7Hz 24 - Sweep 500-1200 (0.5s off, 3.5s on) 25 - Sweep 800-970 50Hz 26 - Sweep 800-970 7Hz 27 - Sweep 800-970 1Hz 28 - Sweep 2400-2850 50Hz 29 - Sweep 500-1000 7Hz 30 - Sweep 500-1200-500 0.166Hz rise 1s, stable 4s, fall 1s 31 - Sweep 800-1000 2Hz 32 - Sweep 2400-2850 1Hz	
WWA-PC-I05	Wall Mounted Sounder Strobe with White Flash, Clear Lens, Isolated - Pure White Body (B501AP) Notes: 1. Meets the requirements of EN 54-23 at the following power settings: - Low white output - Medium white output - High white output 2. The wall mounted Visual Alarm Device (VAD) meets the requirements of EN 54-23 for the following light pattern details: - High Performance setting - (Category W-4-11.5/W-2.4-11.5) - Medium Performance setting - (Category W-3.8-9/W-2.4-9) - Low Performance setting - (Category O-2.4-3) - Synchronization - Flash rate (0.5Hz & 1Hz) 3. Meets the requirements of EN 54-3 at the following tones: 1 - Alternating 554/440 2Hz (100ms/400ms) 2 - Alternating 800/922 1Hz 3 - Alternating 800/922 2 Hz 4 - Alternating 2400/2900 3Hz 5 - Alternating 2500/3100 2Hz 6 - Alternating 988/645 2Hz 7 - Continuous 630 8 - Continuous 922 9 - Continuous 1200 10 - Continuous 2810 11 - Sweep 150-1000 Rising from 150Hz to 1Khz in 10s, 40s@1KHz, falling from 1KHz to 150Hz in 10s, 20s@150Hz. Period 80s 12 - Intermittent 420 0.625s on, 0.625s off 13 - Sweep 500-1200 0.25s off, 3.75s on 14 - Intermittent 630 3.33Hz 150ms on, 150ms off 15 - Intermittent 922 0.8Hz 0.25s on, 1s off 16 - Intermittent 922 0.5Hz 1s on, 1s off 17 - Intermittent 2810 1Hz 18 - Intermittent 922 1Hz 500ms on, 500ms off 19 - Intermittent 950 0.22Hz (0.5s on, 0.5s off) rptx3, 1.5s off 20 - Continuous 800 21 - Sweep 400-1200 (0.5s on, 0.5s off)*3, 1.5s off 22- Sweep 1200-500 0.99Hz 1s on, 0.01s off	567az/03

Certificated Products		LPCB Ref. No.
	23 - Sweep 2400-2850 7Hz 24 - Sweep 500-1200 (0.5s off, 3.5s on) 25 - Sweep 800-970 50Hz 26 - Sweep 800-970 7Hz 27 - Sweep 800-970 1Hz 28 - Sweep 2400-2850 50Hz 29 - Sweep 500-1000 7Hz 30 - Sweep 500-1200-500 0.166Hz rise 1s, stable 4s, fall 1s 31 - Sweep 800-1000 2Hz 32 - Sweep 2400-2850 1Hz	
WWA-RC-I05	Wall Mounted Sounder Strobe with White Flash, Clear Lens, Isolated - Red Body (B501AP) Notes: 1. Meets the requirements of EN 54-23 at the following power settings: - Low white output - Medium white output - High white output 2. The wall mounted Visual Alarm Device (VAD) meets the requirements of EN 54-23 for the following light pattern details: - High Performance setting - (Category W-4-11.5/W-2.4-11.5) - Medium Performance setting - (Category W-3.8-9/W-2.4-9) - Low Performance setting - (Category O-2.4-3) - Synchronization - Flash rate (0.5Hz & 1Hz) 3. Meets the requirements of EN 54-3 at the following tones: 1 - Alternating 554/440 2Hz (100ms/400ms) 2 - Alternating 800/922 1Hz 3 - Alternating 800/922 2 Hz 4 - Alternating 2400/2900 3Hz 5 - Alternating 2500/3100 2Hz 6 - Alternating 988/645 2Hz 7 - Continuous 630 8 - Continuous 922 9 - Continuous 1200 10 - Continuous 2810 11 - Sweep 150-1000 Rising from 150Hz to 1Khz in 10s, 40s@1KHz, falling from 1KHz to 150Hz in 10s, 20s@150Hz. Period 80s 12 - Intermittent 420 0.625s on, 0.625s off 13 - Sweep 500-1200 0.25s off, 3.75s on 14 - Intermittent 630 3.33Hz 150ms on, 150ms off 15 - Intermittent 922 0.8Hz 0.25s on, 1s off 16 - Intermittent 922 0.5Hz 1s on, 1s off 17 - Intermittent 2810 1Hz 18 - Intermittent 922 1Hz 500ms on, 500ms off 19 - Intermittent 950 0.22Hz (0.5s on, 0.5s off) rptx3, 1.5s off 20 - Continuous 800 21 - Sweep 400-1200 (0.5s on, 0.5s off)*3, 1.5s off 22- Sweep 1200-500 0.99Hz 1s on, 0.01s off 23 - Sweep 2400-2850 7Hz 24 - Sweep 500-1200 (0.5s off, 3.5s on) 25 - Sweep 800-970 50Hz 26 - Sweep 800-970 7Hz 27 - Sweep 800-970 1Hz 28 - Sweep 2400-2850 50Hz 29 - Sweep 500-1000 7Hz 30 - Sweep 500-1200-500 0.166Hz rise 1s, stable 4s, fall 1s 31 - Sweep 800-1000 2Hz 32 - Sweep 2400-2850 1Hz	567az/04

Bases

Bcc Deep base IP44, cc indicates colour, RR=Red, DD=Detector White, PW=Pure White
Wcc Waterproof base IP65, cc indicates colour, RR=Red, DD=Detector White, PW=Pure White
B501AP Mounting Base - Low Profile Base IP21C

A copy of the certificate, confirming the full scope of approval including notes relating to the superscript references in the above table, may be viewed online by clicking on the product name in the associated entry on www.RedBookLive.com

Multron Systems Pte Ltd

217 Kallang Bahru #02-00, Multron Building, Singapore 339 347, Singapore
Tel: +65 6743 2555 / 6395 6868 • Fax: +65 6743 2777 / 6395 6869
E-mail: info@multron.com • Website: www.multron.com

Certificate No: 1330d-(cl-3) to EN 54-3:2014 + A1:2019

Audible Warning Devices

Certificated Products		LPCB Ref. No.
MX300	Addressable Sounder Strobe (MX300 Base) *Notes:* *1. Approved to Type A Indoor use only.* *2. Meets the requirements of EN 54-3 at the following tones:* • *Tone 14, 2400 Hz – 2900 Hz @ 3Hz* • *Tone 16, 500Hz – 1200Hz, 3.5s on/0.25s off* • *Tone 17, 800Hz, 1s off/1s on* *3. The strobe function is not approved to EN 54-23*	1330d/01
MX302	Addressable Sounder Base *Notes:* *1. Approved to Type A Indoor use only.* *2. Meets the requirements of EN 54-3 at the following tones:* • *Tone 14, 2400 Hz - 2900 Hz @ 3Hz* • *Tone 16, 500Hz - 1200Hz, 3.75s on/0.25s off* • *Tone 17, 800Hz, 1s off/1s on* *The strobe function is not approved to EN 54-23*	1330d/02

Base:
MX300 Sounder Base

A copy of the certificate, confirming the full scope of approval including notes relating to the superscript references in the above table, may be viewed online by clicking on the product name in the associated entry on www.RedBookLive.com

Notifier by Honeywell, Pittway Tecnologica Srl

Charles Avenue, Burgess Hill, West Sussex RH15 9UF, United Kingdom
Tel: +44 (0)1444 230230 • Fax: +44 (0)1444 230689
E-mail: sales@notifierfiresystems.co.uk • Website: www.notifierfiresystems.co.uk

Certificate No: 567ah-(cl-2) to EN 54-17:2005 & EN 54-23: 2010

Audible Warning Devices

Certificated Products		LPCB Ref. No.
NFXI-WF-WC	addressable wall mounted LED strobe with short circuit isolator (B501AP base) *Note:* *1. The wall mounted VAD meets the requirements of EN 54-23: 2010 for the following category (light pattern details): - Category O-2.4-2 - Flash rate 1Hz* *- Synchronization* *2. Type A with Bcc deep back box, Type B with Wcc deep back box*	567ah/05
NFXI-BF-xCS	Addressable Type A Detector Base Strobe Notes: 1. The Ceiling mounted VAD meets the requirements of EN 54-23:2010 for the following: - Category rating C-3-8.5 - Synchronization - Flash rate 0.5Hz & 1Hz - Red LED - Clear lens 2. x indicates body colour. D=Detector White, P=Pure White	567ah/07
WRL-PC-I02	Wall Mounted Strobe with Red Flash, Clear lens, Isolated - Pure White Body (B501AP) Notes: 1. The Wall mounted VAD meets the requirements of EN 54-23 for the following:	567ah/08

Certificated Products		LPCB Ref. No.
	- Category rating W-3.6-10.5/W-2.4-10.5 - Synchronization - Flash rate 0.5Hz - Red LED - Clear lens	
WRL-RC-I02	Wall Mounted Strobe with Red Flash, Clear lens, Isolated - Red Body (B501AP) Notes: 1. The Wall mounted VAD meets the requirements of EN 54-23 for the following: - Category rating W-3.6-10.5/W-2.4-10.5 - Synchronization - Flash rate 0.5Hz - Red LED - Clear lens	567ah/09
WWL-PC-I02	Wall Mounted Strobe with White Flash, Clear lens, Isolated - Pure White Body (B501AP) Notes: 1. The Wall mounted VAD meets the requirements of EN 54-23 for the following: - Category rating W-3.8-9/W-2.4-9 - Synchronization - Flash rate 0.5Hz - White LED - Clear lens	567ah/10
WWL-RC-I02	Wall Mounted Strobe with White Flash, Clear lens, Isolated - Red Body (B501AP) Notes: 1. The Wall mounted VAD meets the requirements of EN 54-23 for the following: - Category rating W-3.8-9/W-2.4-9 - Synchronization - Flash rate 0.5Hz - White LED - Clear lens	567ah/11

Bases/ Ancillaries

B501AP Mounting base - Low profile base IP21C
Bcc Deep base IP44, *cc indicates colour, RR=Red, DD=Detector White, PW=Pure White*
Wcc Waterproof base IP65, *cc indicates colour, RR=Red, DD=Detector White, PW=Pure White*

A copy of the certificate, confirming the full scope of approval including notes relating to the superscript references in the above table, may be viewed online by clicking on the product name in the associated entry on www.RedBookLive.com

Certificate No: 567aw-(cl-2) to EN 54-3:2014 + A1:2019

Audible Warning Devices

Certificated Products		LPCB Ref. No.
NBS3D	4 Tone Type A Conventional Ceiling Mounting Sounder (White) Note: 1. Meets the requirements of EN 54-3 at all output levels, and voltage ranges of 10-14 VDC and 19.5-28VDC for the following tones: - Falling 1200Hz-500Hz over 3.5s followed by 0.5s silence - 800Hz continuous - 500Hz-1200Hz slow whoop - Falling 1200Hz-500Hz over 3.5s followed by 0.5s silence	567aw/02

A copy of the certificate, confirming the full scope of approval including notes relating to the superscript references in the above table, may be viewed online by clicking on the product name in the associated entry on www.RedBookLive.com

Certificate No: 567ay-(cl-4) to EN 54-3:2014 + A1:2019 & EN 54-23:2010

Visual & Audible Warning Devices

Certificated Products		LPCB Ref. No.
NFX-DSF-WC	Analogue Addressable Type A Integrated Detector Base Sounder/Beacon (B501AP base) Notes: 1. The wall mounted VAD meets the requirements of EN 54-23: 2010 for the following category (light pattern details): - Category O - Open Class - Flash rate 1Hz - Synchronization	567ay/08

Certificated Products		LPCB Ref. No.
	2. PC=Pure White/Clear indicates body/lens colour. 3. Advanced Protocol (and System Sensor 500 series protocol) 4. Meets the requirements of EN54-3 for all output levels at voltage range 15-32VDC and tones: 1) 554/440, 2Hz (100ms/400ms); 2) 800/970, 1Hz; 3) 800/970, 2Hz; 4) 2400/2900, 3Hz; 5) 2500/3100, 2Hz; 6) 988/645, 2Hz; 7) 660Hz; 8) 970Hz; 9) 1200Hz; 10) 2850Hz; 11) 150-1000, rise 10s, stable 40s, fall 10s, stable 20s, then repeating; 12) 420Hz, 0.625s on, 0.625 sec off; 13) 500-1200Hz, 0.25 sec off, 3.75 sec on; 14) 660, 3.33Hz, 150ms on, 150ms off; 15) 970, 0.8Hz 0.25s on, 1s off; 16) 970, 0.5Hz 1s on, 1s off; 17) 2850, 1Hz; 18) 970, 1Hz 500ms on, 500ms off; 19) 950, 0.22Hz (0.5s on, 0.5s off) x 3, 1.5s off; 20) 800Hz; 21) 400-1200Hz, (0.5s on, 0.5s off) x 3, 1.5s off; 22) 1200 - 500Hz, 0.99Hz 1s on, 0.01s off; 23) 2400 - 2850, 7Hz; 24) 500 - 1200Hz, (0.5s off, 3.5s on); 25) 800 - 970, 50Hz; 26) 800 - 970, 7Hz; 27) 800 - 970, 1Hz; 28) 2400 - 2850, 50Hz; 29) 500 - 1000, 7Hz; 30) 500 - 1200 - 500, 0.166Hz rise 1s, stable 4s, fall 1s; 31) 800 - 1000, 2Hz; 32) 2400 - 2850, 1Hz	

B501AP base
A copy of the certificate, confirming the full scope of approval including notes relating to the superscript references in the above table, may be viewed online by clicking on the product name in the associated entry on www.RedBookLive.com

Certificate No: 567ag-(cl-2) to EN 54-3:2014 + A1:2019, EN 54-17:2005 & EN 54-23:2010

Visual & Audible Warning Devices

Certificated Products		LPCB Ref. No.
NFXI-WSF-WC	Analogue Addressable Wall Mounted Sounder / LED Strobe with Short Circuit Isolator (B501AP base) Notes: 1. The wall mounted VAD meets the requirements of EN 54-23: 2010 for the following category (light pattern details): - Category O - Open Class - Flash rate 1Hz - Synchronization 2. WC=Pure White/Clear indicates body/lens colour. 3. Type A with Bcc deep back box, Type B with Wcc deep back box 4. Meets the requirements of EN54-3: 2001 at the following tones: 1) Alternating 525/440, 2Hz (100ms/400ms); 2) Alternating 800/922, 1Hz; 3) Alternating 800/922, 2Hz; 4) Alternating 2400/2900, 3Hz; 5) Alternating 2500/3100, 2Hz; 6) Alternating 988/645, 2Hz; 7) Continuous 630Hz; 8) Continuous 922Hz; 9) Continuous 1200Hz; 10) Continuous 2810Hz; 11) Sweep 150-1000Hz, rise 10s, stable 40s, fall 10s, stable 20s, then repeating; 12) Intermittent 420Hz, 0.625s on, 0.625 sec off;	567ag/21

Certificated Products		LPCB Ref. No.
	13) Sweep 500-1200Hz, 0.25 sec off, 3.75 sec on; 14) Intermittent 630, 3.33Hz, 150ms on, 150ms off; 15) Intermittent 922, 0.8Hz 0.25s on, 1s off; 16) Intermittent 922, 0.5Hz 1s on, 1s off; 17) Intermittent 2810, 1Hz; 18) Intermittent 922, 1Hz 500ms on, 500ms off; 19) Intermittent 950, 0.22Hz (0.5s on, 0.5s off) x 3, 1.5s off; 20) Continuous 800Hz; 21) Sweep 400-1200Hz, (0.5s on, 0.5s off) x 3, 1.5s off; 22) Sweep 1200 - 500Hz, 0.99Hz 1s on, 0.01s off; 23) Sweep 2400 - 2850, 7Hz; 24) Sweep 500 - 1200Hz, (0.5s off, 3.5s on); 25) Sweep 800 - 970, 50Hz; 26) Sweep 800 - 970, 7Hz; 27) Sweep 800 - 970, 1Hz; 28) Sweep 2400 - 2850, 50Hz; 29) Sweep 500 - 1000, 7Hz; 30) Sweep 500 - 1200 - 500, 0.166Hz rise 1s, stable 4s, fall 1s; 31) Sweep 800 - 1000, 2Hz; 32) Sweep 2400 - 2850, 1Hz	
NFXI-DSF-WC	Analogue Addressable Type A Integrated Detector Base Sounder/Beacon with Short Circuit Isolator (B501AP base) Notes: 1. The wall mounted VAD meets the requirements of EN 54-23: 2010 for the following category (light pattern details): - Category O - Open Class - Flash rate 1Hz - Synchronization 2. WC=Pure White/Clear indicates body/lens colour. 3. Advanced Protocol (and System Sensor 500 series protocol) 4. Meets the requirements of EN54-3 for all output levels at voltage range 15-29VDC and tones: 1) 554/440, 2Hz (100ms/400ms); 2) 800/970, 1Hz; 3) 800/970, 2Hz; 4) 2400/2900, 3Hz; 5) 2500/3100, 2Hz; 6) 988/645, 2Hz; 7) 660Hz; 8) 970Hz; 9) 1200Hz; 10) 2850Hz; 11) 150-1000, rise 10s, stable 40s, fall 10s, stable 20s, then repeating; 12) 420Hz, 0.625s on, 0.625 sec off; 13) 500-1200Hz, 0.25 sec off, 3.75 sec on; 14) 660, 3.33Hz, 150ms on, 150ms off; 15) 970, 0.8Hz 0.25s on, 1s off; 16) 970, 0.5Hz 1s on, 1s off; 17) 2850, 1Hz; 18) 970, 1Hz 500ms on, 500ms off; 19) 950, 0.22Hz (0.5s on, 0.5s off) x 3, 1.5s off; 20) 800Hz; 21) 400-1200Hz, (0.5s on, 0.5s off) x 3, 1.5s off; 22) 1200 - 500Hz, 0.99Hz 1s on, 0.01s off; 23) 2400 - 2850, 7Hz; 24) 500 - 1200Hz, (0.5s off, 3.5s on); 25) 800 - 970, 50Hz; 26) 800 - 970, 7Hz; 27) 800 - 970, 1Hz; 28) 2400 - 2850, 50Hz; 29) 500 - 1000, 7Hz; 30) 500 - 1200 - 500, 0.166Hz rise 1s, stable 4s, fall 1s; 31) 800 - 1000, 2Hz; 32) 2400 - 2850, 1Hz	567ag/22
NFXI-BSF-xCH	Addressable Type A Detector Base Sounder Strobe Notes: 1. x indicates body colour. D = Detector White, P=Pure White 2. Meets the requirements of EN 54-3:2001 for the following tones: Tone 1 - Alternating 525 / 440Hz in 100ms/400ms Tone 2 - Alternating 800 / 922Hz for 1Hz Tone 3 - Alternating 800 / 922Hz for 2Hz Tone 4 - Alternating 2400 / 2900Hz for 3Hz	567ag/23

Certificated Products		LPCB Ref. No.
	Tone 5 - Alternating 2500 / 3100Hz for 2Hz Tone 6 - Alternating 988 / 645Hz for 2Hz Tone 7 - Continuous 630Hz Tone 8 - Continuous 922Hz Tone 9 - Continuous 1200Hz Tone 10 - Continuous 2810Hz Tone 11 - Sweep 150-1000-500Hz Rising from 500Hz to 1000Hz in 10s, Hold 100Hz for 40s Falling from 100Hz to 500Hz in 10s, Hold 500Hz for 20s Tone 12 - Intermittent 420Hz for 150ms on, 150ms off Tone 13 - Sweep 500-1200Hz Rising from 500Hz to 1200Hz in 0.25s, then 3.75s off Tone 14 - Intermittent 630Hz for 150ms on, 150ms off Tone 15 - Intermittent 922Hz for 0.25s on, 1s off Tone 16 - Intermittent 922Hz for 1s on, 1s off Tone 17 - Intermittent 2810Hz for 1Hz Tone 18 - Intermittent 922Hz for 500ms on, 500ms off Tone 19 - Intermittent 950Hz for 500ms on, 500ms off. Repeat 3 times then 1.5s off Tone 20 - Continuous 800Hz Tone 21 - Sweep 400-1200Hz Rising from 400Hz to 1200Hz in 500ms, then 500ms off. Repeat 3 times then 1.5s off Tone 22 - Sweep 1200-500Hz Falling from 1200Hz to 500Hz in 1000ms, 10ms off Tone 23 - Sweep 2400-2850Hz for 7Hz Tone 24 - Sweep 500-1200Hz Rising from 500Hz to 1200Hs in 0.5s, then 3.5s off Tone 25 - Sweep 800-970Hz for 50Hz Tone 26 - Sweep 800-970Hz for 7Hz Tone 27 - Sweep 800-970Hz for 1Hz Tone 28 - Sweep 2400-2850Hz for 50Hz Tone 29 - Sweep 500-1000Hz for 7Hz Tone 30 - Sweep 500-1200-500Hz Rising from 500Hz to 1200Hz in 1s, Hold 1200Hz for 4s Falling from 1200Hz to 500Hz in 1s Tone 31 - Sweep 800-1000Hz for 2Hz Tone 32 - Sweep 2400-2850Hz for 1Hz 3. The Ceiling mounted VAD meets the requirements of EN 54-23:2010 for the following: - Category ratings High C-3-15, Low C-3-11 & O-1-4 - Synchronization - Flash rate 0.5Hz & 1Hz - Red LED - Clear lens	
NFXI-BSF-xCS	Addressable Type A Detector Base Sounder Strobe Notes: 1. x indicates body colour. Detector White, P=Pure White 2. Meets the requirements of EN 54-3:2001 for the following tones: Tone 1 - Alternating 525 / 440Hz in 100ms/400ms Tone 2 - Alternating 800 / 922Hz for 1Hz Tone 3 - Alternating 800 / 922Hz for 2Hz Tone 4 - Alternating 2400 / 2900Hz for 3Hz Tone 5 - Alternating 2500 / 3100Hz for 2Hz Tone 6 - Alternating 988 / 645Hz for 2Hz Tone 7 - Continuous 630Hz Tone 8 - Continuous 922Hz Tone 9 - Continuous 1200Hz Tone 10 - Continuous 2810Hz Tone 11 - Sweep 150-1000-500Hz Rising from 500Hz to 1000Hz in 10s, Hold 100Hz for 40s Falling from 100Hz to 500Hz in 10s, Hold 500Hz for 20s Tone 12 - Intermittent 420Hz for 150ms on, 150ms off Tone 13 - Sweep 500-1200Hz Rising from 500Hz to 1200Hz in 0.25s, then 3.75s off Tone 14 - Intermittent 630Hz for 150ms on, 150ms off Tone 15 - Intermittent 922Hz for 0.25s on, 1s off Tone 16 - Intermittent 922Hz for 1s on, 1s off Tone 17 - Intermittent 2810Hz for 1Hz Tone 18 - Intermittent 922Hz for 500ms on, 500ms off Tone 19 - Intermittent 950Hz for 500ms on, 500ms off. Repeat 3 times then 1.5s off Tone 20 - Continuous 800Hz Tone 21 - Sweep 400-1200Hz Rising from 400Hz to 1200Hz in 500ms, then 500ms off. Repeat 3 times then 1.5s off Tone 22 - Sweep 1200-500Hz Falling from 1200Hz to 500Hz in 1000ms, 10ms off Tone 23 - Sweep 2400-2850Hz for 7Hz Tone 24 - Sweep 500-1200Hz Rising from 500Hz to 1200Hs in 0.5s, then 3.5s off	567ag/24

Certificated Products		LPCB Ref. No.
	Tone 25 - Sweep 800-970Hz for 50Hz Tone 26 - Sweep 800-970Hz for 7Hz Tone 27 - Sweep 800-970Hz for 1Hz Tone 28 - Sweep 2400-2850Hz for 50Hz Tone 29 - Sweep 500-1000Hz for 7Hz Tone 30 - Sweep 500-1200-500Hz Rising from 500Hz to 1200Hz in 1s, Hold 1200Hz for 4s Falling from 1200Hz to 500Hz in 1s Tone 31 - Sweep 800-1000Hz for 2Hz Tone 32 - Sweep 2400-2850Hz for 1Hz 3. The Ceiling mounted VAD meets the requirements of EN 54-23:2010 for the following: - Category ratings C-3-8.5 & O-1-3 - Synchronization - Flash rate 0.5Hz & 1Hz - Red LED - Clear lens	

Bases/ Ancillaries

B501AP Mounting base - Low profile base IP21C
Bcc Deep base IP44, cc indicates colour, RR=Red, DD=Detector White, PW=Pure White
Wcc Waterproof base IP65, cc indicates colour, RR=Red, DD=Detector White, PW=Pure White

A copy of the certificate, confirming the full scope of approval including notes relating to the superscript references in the above table, may be viewed online by clicking on the product name in the associated entry on www.RedBookLive.com

Certificate No: 567z-(cl-2) to EN 54-3: 2014 + A1: 2019 and EN 54-17: 2005

Visual Warning Devices

Certificated Products		LPCB Ref. No.
NFXI-WS-z	Analogue addressableType A/B wall mounted sounder with short circuit isolator (B501AP-cc, Bcc bases, and Wcc bases) Notes: 1. z indicates body colour. R=Red, W=Pure White 2 Advanced Protocol (and System Sensor 500 series protocol) 3. Meets the requirements of EN54-3 for all output levels at voltage range 15-29VDC and tones: 1) 554/440, 2Hz (100ms/400ms); 2) 800/970, 1Hz; 3) 800/970, 2Hz; 4) 2400/2900, 3Hz; 5) 2500/3100, 2Hz; 6) 988/645, 2Hz; 7) 660Hz; 8) 970Hz; 9) 1200Hz; 10) 2850Hz; 11) 150-1000, rise 10s, stable 40s, fall 10s, stable 20s, then repeating; 12) 420Hz, 0.625s on, 0.625 sec off; 13) 500-1200Hz, 0.25 sec off, 3.75 sec on; 14) 660, 3.33Hz, 150ms on, 150ms off; 15) 970, 0.8Hz 0.25s on, 1s off; 16) 970, 0.5Hz 1s on, 1s off; 17) 2850, 1Hz; 18) 970, 1Hz 500ms on, 500ms off; 19) 950, 0.22Hz (0.5s on, 0.5s off) x 3, 1.5s off; 20) 800Hz; 21) 400-1200Hz, (0.5s on, 0.5s off) x 3, 1.5s off; 22) 1200 - 500Hz, 0.99Hz 1s on, 0.01s off; 23) 2400 - 2850, 7Hz; 24) 500 - 1200Hz, (0.5s off, 3.5s on); 25) 800 - 970, 50Hz; 26) 800 - 970, 7Hz; 27) 800 - 970, 1Hz; 28) 2400 - 2850, 50Hz; 29) 500 - 1000, 7Hz; 30) 500 - 1200 - 500, 0.166Hz rise 1s, stable 4s, fall 1s; 31) 800 - 1000, 2Hz; 32) 2400 - 2850, 1Hz. 4. Approved as Type B only when used with Wcc base	567z/09
NFXI-WSF-zz	Analogue addressable Type A/B wall mounted sounder/strobe with short circuit isolator (B501AP-cc, Bcc bases, and Wcc bases) **Notes:** 1. **zz** indicates body/lens colour. **RR** =Red/Red, **WC** =Clear/Clear 2. Advanced Protocol (and System Sensor 500 series protocol) 3. Meets the requirements of EN54-3 for all output levels at voltage range 15-29VDC and tones: 1) 554/440, 2Hz (100ms/400ms); 2) 800/970, 1Hz; 3) 800/970, 2Hz; 4) 2400/2900, 3Hz; 5) 2500/3100, 2Hz; 6) 988/645, 2Hz; 7) 660Hz; 8) 970Hz; 9) 1200Hz; 10) 2850Hz; 11) 150-1000, rise 10s, stable 40s, fall 10s, stable 20s, then repeating; 12) 420Hz, 0.625s on, 0.625 sec off; 13) 500-1200Hz, 0.25 sec off, 3.75 sec on; 14) 660, 3.33Hz, 150ms on, 150ms off; 15) 970, 0.8Hz 0.25s on, 1s off;	567z/10

Certificated Products		LPCB Ref. No.
	16) 970, 0.5Hz 1s on, 1s off; 17) 2850, 1Hz; 18) 970, 1Hz 500ms on, 500ms off; 19) 950, 0.22Hz (0.5s on, 0.5s off) x 3, 1.5s off; 20) 800Hz; 21) 400-1200Hz, (0.5s on, 0.5s off) x 3, 1.5s off; 22) 1200 - 500Hz, 0.99Hz 1s on, 0.01s off; 23) 2400 - 2850, 7Hz; 24) 500 - 1200Hz, (0.5s off, 3.5s on); 25) 800 - 970, 50Hz; 26) 800 - 970, 7Hz; 27) 800 - 970, 1Hz; 28) 2400 - 2850, 50Hz; 29) 500 - 1000, 7Hz; 30) 500 - 1200 - 500, 0.166Hz rise 1s, stable 4s, fall 1s; 31) 800 - 1000, 2Hz; 32) 2400 - 2850, 1Hz. 4. Certification excludes the strobe function. 5. Approved as Type B only when used with Wcc base.	
NFXI-BS-zz	Analogue addressable Type A integrated detector base sounder with short circuit isolator (B501AP-cc, Bcc and Wcc bases) **Notes:** 1. **zz** indicates body colour. **W** =Pure White, **IV** =Detector White 2 Advanced Protocol (and System Sensor 500 series protocol) 3. Meets the requirements of EN54-3 for all output levels at voltage range 15-29VDC and tones: 1) 554/440, 2Hz (100ms/400ms); 2) 800/970, 1Hz; 3) 800/970, 2Hz; 4) 2400/2900, 3Hz; 5) 2500/3100, 2Hz; 6) 988/645, 2Hz; 7) 660Hz; 8) 970Hz; 9) 1200Hz; 10) 2850Hz; 11) 150-1000, rise 10s, stable 40s, fall 10s, stable 20s, then repeating; 12) 420Hz, 0.625s on, 0.625 sec off; 13) 500-1200Hz, 0.25 sec off, 3.75 sec on; 14) 660, 3.33Hz, 150ms on, 150ms off; 15) 970, 0.8Hz 0.25s on, 1s off; 16) 970, 0.5Hz 1s on, 1s off; 17) 2850, 1Hz; 18) 970, 1Hz 500ms on, 500ms off; 19) 950, 0.22Hz (0.5s on, 0.5s off) x 3, 1.5s off; 20) 800Hz; 21) 400-1200Hz, (0.5s on, 0.5s off) x 3, 1.5s off; 22) 1200 - 500Hz, 0.99Hz 1s on, 0.01s off; 23) 2400 - 2850, 7Hz; 24) 500 - 1200Hz, (0.5s off, 3.5s on); 25) 800 - 970, 50Hz; 26) 800 - 970, 7Hz; 27) 800 - 970, 1Hz; 28) 2400 - 2850, 50Hz; 29) 500 - 1000, 7Hz; 30) 500 - 1200 - 500, 0.166Hz rise 1s, stable 4s, fall 1s; 31) 800 - 1000, 2Hz; 32) 2400 - 2850, 1Hz.	567z/11
NFXI-BSF-zzz	Analogue addressable Type A integrated detector base sounder/strobe with short circuit isolator (B501AP-cc, Bcc and Wcc bases) **Notes:** 1. **zzz** indicates body/lens colour. **WC** =Pure White/Clear, **IVC** =Detector White/Clear 2. Advanced Protocol (and System Sensor 500 series protocol) 3. Meets the requirements of EN54-3 for all output levels at voltage range 15-29VDC and tones: 1) 554/440, 2Hz (100ms/400ms); 2) 800/970, 1Hz; 3) 800/970, 2Hz; 4) 2400/2900, 3Hz; 5) 2500/3100, 2Hz; 6) 988/645, 2Hz; 7) 660Hz; 8) 970Hz; 9) 1200Hz; 10) 2850Hz; 11) 150-1000, rise 10s, stable 40s, fall 10s, stable 20s, then repeating; 12) 420Hz, 0.625s on, 0.625 sec off; 13) 500-1200Hz, 0.25 sec off, 3.75 sec on; 14) 660, 3.33Hz, 150ms on, 150ms off; 15) 970, 0.8Hz 0.25s on, 1s off; 16) 970, 0.5Hz 1s on, 1s off; 17) 2850, 1Hz; 18) 970, 1Hz 500ms on, 500ms off; 19) 950, 0.22Hz (0.5s on, 0.5s off) x 3, 1.5s off; 20) 800Hz; 21) 400-1200Hz, (0.5s on, 0.5s off) x 3, 1.5s off; 22) 1200 - 500Hz, 0.99Hz 1s on, 0.01s off; 23) 2400 - 2850, 7Hz; 24) 500 - 1200Hz, (0.5s off, 3.5s on); 25) 800 - 970, 50Hz; 26) 800 - 970, 7Hz; 27) 800 - 970, 1Hz; 28) 2400 - 2850, 50Hz; 29) 500 - 1000, 7Hz; 30) 500 - 1200 - 500, 0.166Hz rise 1s, stable 4s, fall 1s; 31) 800 - 1000, 2Hz; 32) 2400 - 2850, 1Hz. 4. Certification excludes the strobe function.	567z/12

Bases/ Ancillaries

B501AP Mounting base - Low profile base IP21C
Bcc Deep base IP44, cc indicates colour, RR=Red, DD=Detector White, PW=Pure White
Wcc Waterproof base IP65, cc indicates colour, RR=Red, DD=Detector White, PW=Pure White

A copy of the certificate, confirming the full scope of approval including notes relating to the superscript references in the above table, may be viewed online by clicking on the product name in the associated entry on www.RedBookLive.com

Certificate No: 567az-(cl-3) to EN 54-3:2014 + A1:2019, EN 54-17:2005, EN 54-23:2010

Visual & Audible Warning Devices

Certificated Products		**LPCB Ref. No.**
WRA-PC-I02	Wall Mounted Sounder Strobe with Red Flash, Clear Lens, Isolated - Pure White Body (B501AP) Notes: 1. Meets the requirements of EN 54-23 at the following power settings: - Low red output - Medium red output - High red output 2. The wall mounted Visual Alarm Device (VAD) meets the requirements of EN 54-23 for the following light pattern details: - High Performance setting - (Category W-4.2-11.5/W-2.4-11.5) - Medium Performance setting - (Category W-3.6-10.5/W-2.4-10.5) - Low Performance setting - (Category O-2.4-3) - Synchronization - Flash rate (0.5Hz & 1Hz) 3. Meets the requirements of EN 54-3 at the following tones: 1 - Alternating 554/440 2Hz (100ms/400ms) 2 - Alternating 800/922 1Hz 3 - Alternating 800/922 2 Hz 4 - Alternating 2400/2900 3Hz 5 - Alternating 2500/3100 2Hz 6 - Alternating 988/645 2Hz 7 - Continuous 630 8 - Continuous 922 9 - Continuous 1200 10 - Continuous 2810 11 - Sweep 150-1000 Rising from 150Hz to 1Khz in 10s, 40s@1KHz, falling from 1KHz to 150Hz in 10s, 20s@150Hz. Period 80s 12 - Intermittent 420 0.625s on, 0.625s off 13 - Sweep 500-1200 0.25s off, 3.75s on 14 - Intermittent 630 3.33Hz 150ms on, 150ms off 15 - Intermittent 922 0.8Hz 0.25s on, 1s off 16 - Intermittent 922 0.5Hz 1s on, 1s off 17 - Intermittent 2810 1Hz 18 - Intermittent 922 1Hz 500ms on, 500ms off 19 - Intermittent 950 0.22Hz (0.5s on, 0.5s off) rptx3, 1.5s off 20 - Continuous 800 21 - Sweep 400-1200 (0.5s on, 0.5s off)*3, 1.5s off 22- Sweep 1200-500 0.99Hz 1s on, 0.01s off 23 - Sweep 2400-2850 7Hz 24 - Sweep 500-1200 (0.5s off, 3.5s on) 25 - Sweep 800-970 50Hz 26 - Sweep 800-970 7Hz 27 - Sweep 800-970 1Hz 28 - Sweep 2400-2850 50Hz 29 - Sweep 500-1000 7Hz 30 - Sweep 500-1200-500 0.166Hz rise 1s, stable 4s, fall 1s 31 - Sweep 800-1000 2Hz 32 - Sweep 2400-2850 1Hz	567az/01
WRA-RC-I02	Wall Mounted Sounder Strobe with Red Flash, Clear Lens, Isolated - Red Body (B501AP) Notes: 1. Meets the requirements of EN 54-23 at the following power settings: - Low red output - Medium red output - High red output 2. The wall mounted Visual Alarm Device (VAD) meets the requirements of EN 54-23 for the following light pattern details: - High Performance setting - (Category W-4.2-11.5/W-2.4-11.5) - Medium Performance setting - (Category W-3.6-10.5/W-2.4-10.5) - Low Performance setting - (Category O-2.4-3) - Synchronization - Flash rate (0.5Hz & 1Hz) 3. Meets the requirements of EN 54-3 at the following tones: 1 - Alternating 554/440 2Hz (100ms/400ms) 2 - Alternating 800/922 1Hz	567az/02

Certificated Products		LPCB Ref. No.
	3 - Alternating 800/922 2 Hz 4 - Alternating 2400/2900 3Hz 5 - Alternating 2500/3100 2Hz 6 - Alternating 988/645 2Hz 7 - Continuous 630 8 - Continuous 922 9 - Continuous 1200 10 - Continuous 2810 11 - Sweep 150-1000 Rising from 150Hz to 1Khz in 10s, 40s@1KHz, falling from 1KHz to 150Hz in 10s, 20s@150Hz. Period 80s 12 - Intermittent 420 0.625s on, 0.625s off 13 - Sweep 500-1200 0.25s off, 3.75s on 14 - Intermittent 630 3.33Hz 150ms on, 150ms off 15 - Intermittent 922 0.8Hz 0.25s on, 1s off 16 - Intermittent 922 0.5Hz 1s on, 1s off 17 - Intermittent 2810 1Hz 18 - Intermittent 922 1Hz 500ms on, 500ms off 19 - Intermittent 950 0.22Hz (0.5s on, 0.5s off) rptx3, 1.5s off 20 - Continuous 800 21 - Sweep 400-1200 (0.5s on, 0.5s off)*3, 1.5s off 22- Sweep 1200-500 0.99Hz 1s on, 0.01s off 23 - Sweep 2400-2850 7Hz 24 - Sweep 500-1200 (0.5s off, 3.5s on) 25 - Sweep 800-970 50Hz 26 - Sweep 800-970 7Hz 27 - Sweep 800-970 1Hz 28 - Sweep 2400-2850 50Hz 29 - Sweep 500-1000 7Hz 30 - Sweep 500-1200-500 0.166Hz rise 1s, stable 4s, fall 1s 31 - Sweep 800-1000 2Hz 32 - Sweep 2400-2850 1Hz	
WWA-PC-I02	Wall Mounted Sounder Strobe with White Flash, Clear Lens, Isolated - Pure White Body (B501AP) Notes: 1. Meets the requirements of EN 54-23 at the following power settings: - Low white output - Medium white output - High white output 2. The wall mounted Visual Alarm Device (VAD) meets the requirements of EN 54-23 for the following light pattern details: - High Performance setting - (Category W-4-11.5/W-2.4-11.5) - Medium Performance setting - (Category W-3.8-9/W-2.4-9) - Low Performance setting - (Category O-2.4-3) - Synchronization - Flash rate (0.5Hz & 1Hz) 3. Meets the requirements of EN 54-3 at the following tones: 1 - Alternating 554/440 2Hz (100ms/400ms) 2 - Alternating 800/922 1Hz 3 - Alternating 800/922 2 Hz 4 - Alternating 2400/2900 3Hz 5 - Alternating 2500/3100 2Hz 6 - Alternating 988/645 2Hz 7 - Continuous 630 8 - Continuous 922 9 - Continuous 1200 10 - Continuous 2810 11 - Sweep 150-1000 Rising from 150Hz to 1Khz in 10s, 40s@1KHz, falling from 1KHz to 150Hz in 10s, 20s@150Hz. Period 80s 12 - Intermittent 420 0.625s on, 0.625s off 13 - Sweep 500-1200 0.25s off, 3.75s on 14 - Intermittent 630 3.33Hz 150ms on, 150ms off 15 - Intermittent 922 0.8Hz 0.25s on, 1s off 16 - Intermittent 922 0.5Hz 1s on, 1s off 17 - Intermittent 2810 1Hz 18 - Intermittent 922 1Hz 500ms on, 500ms off 19 - Intermittent 950 0.22Hz (0.5s on, 0.5s off) rptx3, 1.5s off 20 - Continuous 800 21 - Sweep 400-1200 (0.5s on, 0.5s off)*3, 1.5s off 22- Sweep 1200-500 0.99Hz 1s on, 0.01s off 23 - Sweep 2400-2850 7Hz 24 - Sweep 500-1200 (0.5s off, 3.5s on) 25 - Sweep 800-970 50Hz	567az/03

Certificated Products		LPCB Ref. No.
	26 - Sweep 800-970 7Hz 27 - Sweep 800-970 1Hz 28 - Sweep 2400-2850 50Hz 29 - Sweep 500-1000 7Hz 30 - Sweep 500-1200-500 0.166Hz rise 1s, stable 4s, fall 1s 31 - Sweep 800-1000 2Hz 32 - Sweep 2400-2850 1Hz	
WWA-RC-I02	Wall Mounted Sounder Strobe with White Flash, Clear Lens, Isolated - Red Body (B501AP) Notes: 1. Meets the requirements of EN 54-23 at the following power settings: - Low white output - Medium white output - High white output 2. The wall mounted Visual Alarm Device (VAD) meets the requirements of EN 54-23 for the following light pattern details: - High Performance setting - (Category W-4-11.5/W-2.4-11.5) - Medium Performance setting - (Category W-3.8-9/W-2.4-9) - Low Performance setting - (Category O-2.4-3) - Synchronization - Flash rate (0.5Hz & 1Hz) 3. Meets the requirements of EN 54-3 at the following tones: 1 - Alternating 554/440 2Hz (100ms/400ms) 2 - Alternating 800/922 1Hz 3 - Alternating 800/922 2 Hz 4 - Alternating 2400/2900 3Hz 5 - Alternating 2500/3100 2Hz 6 - Alternating 988/645 2Hz 7 - Continuous 630 8 - Continuous 922 9 - Continuous 1200 10 - Continuous 2810 11 - Sweep 150-1000 Rising from 150Hz to 1Khz in 10s, 40s@1KHz, falling from 1KHz to 150Hz in 10s, 20s@150Hz. Period 80s 12 - Intermittent 420 0.625s on, 0.625s off 13 - Sweep 500-1200 0.25s off, 3.75s on 14 - Intermittent 630 3.33Hz 150ms on, 150ms off 15 - Intermittent 922 0.8Hz 0.25s on, 1s off 16 - Intermittent 922 0.5Hz 1s on, 1s off 17 - Intermittent 2810 1Hz 18 - Intermittent 922 1Hz 500ms on, 500ms off 19 - Intermittent 950 0.22Hz (0.5s on, 0.5s off) rptx3, 1.5s off 20 - Continuous 800 21 - Sweep 400-1200 (0.5s on, 0.5s off)*3, 1.5s off 22- Sweep 1200-500 0.99Hz 1s on, 0.01s off 23 - Sweep 2400-2850 7Hz 24 - Sweep 500-1200 (0.5s off, 3.5s on) 25 - Sweep 800-970 50Hz 26 - Sweep 800-970 7Hz 27 - Sweep 800-970 1Hz 28 - Sweep 2400-2850 50Hz 29 - Sweep 500-1000 7Hz 30 - Sweep 500-1200-500 0.166Hz rise 1s, stable 4s, fall 1s 31 - Sweep 800-1000 2Hz 32 - Sweep 2400-2850 1Hz	567az/04

Bases/ Ancillaries

B501AP Mounting base - Low profile base IP21C

Bcc Deep base IP44, cc indicates colour, RR=Red, DD=Detector White, PW=Pure White

Wcc Waterproof base IP65, cc indicates colour, RR=Red, DD=Detector White, PW=Pure White

A copy of the certificate, confirming the full scope of approval including notes relating to the superscript references in the above table, may be viewed online by clicking on the product name in the associated entry on www.RedBookLive.com

NOTOFIRE PVT LTD

C-146, Ground Floor, Block C, Sector 63, NOIDA, Gautam Buddha Nagar,, Uttar Pradesh 201301, India
Tel: +919999991525
E-mail: indianotofire@gmail.com • Website: www.no2fire.com

Certificate No: 1450a-(cl-2) to EN 54-3: 2014 + A1: 2019

Certificated Products		LPCB Ref. No.
NF5266	Addressable Sounder Strobe Type A (Base with 86H50 Embedded Box) *Notes:* *Meets the requirements of EN 54-3 for the following tones* *1) One Default Tone 3.5s ~ 4.5s* *The Beacon function is not approved to EN 54-23*	1450a/01
NF5270	Addressable Sounder Strobe Type A Notes: Meets the requirements of EN 54-3: for the following tone 1) One Default Tone, 1.67KHz – 5.9KHz (3.5s - 4.5s) The Beacon function is not approved to EN 54-23	1450a/03

Base

Base with 86H50 Embedded Box

A copy of the certificate, confirming the full scope of approval including notes relating to the superscript references in the above table, may be viewed online by clicking on the product name in the associated entry on www.RedBookLive.com

PT.Servvo Fire Indonesia

Pusat Niaga Roxy Mas Blok D5/17,, Jl.K.H. Hasyim Ashari Blok 125, Cideng, Gambir, Jakarta Pusat, DKI Jakarta Raya 10150, Indonesia
Tel: +62216330330
E-mail: info@servvo.com Info@servvo.co.id • Website: www.servvo.com or www.servvo.co.id

Certificate No: 1426a-(cl-5) to EN 54-3 :2014 + A1: 2019,, EN 54-23: 2010

Certificated Products		LPCB Ref. No.
SSS 337	Addressable Sounder Beacon (DZ-9091 Base) *Notes:* *1)Meets the requirement of EN 54-23 at the following:* *- Category C-3-8 + W-2.4-6* *- Flash Rate 0.5Hz* *- One Mode (Light output synchronization)* *- Flash Colour White* *- For wall and ceiling mounting* *2) Meets the requirements of EN 54-3 at the following tone:* *- Tone 1: 667Hz - 2000Hz@0.22Hz*	1426a/02

Base
DZ-9091

A copy of the certificate, confirming the full scope of approval including notes relating to the superscript references in the above table, may be viewed online by clicking on the product name in the associated entry on www.RedBookLive.com

Shenzhen HTI Sanjiang Electronics CO., Ltd

3/F., Guangcai Xintiandi Mansion, Nanshan Road, Nanshan District, Shenzhen, Guangdong 51804, China
Tel: +86 755 26521071
E-mail: shuxian.wei@fhsjdz.com

Certificate No: 1426j-(cl-1) to EN 54-3:2014 + A1:2019

Certificated Products		LPCB Ref. No.
A9097B	Addressable Type A (Indoor) Sounder Beacon Base (Standard Mounting Bracket) *Notes:* *Meets the requirements of EN 54-3: 2014 at the following tones* *Sweep Tone 667Hz - 2KHz@0.21Hz*	1426j/01

Accessories
Standard Mounting Bracket
A copy of the certificate, confirming the full scope of approval including notes relating to the superscript references in the above table, may be viewed online by clicking on the product name in the associated entry on www.RedBookLive.com

Certificate No: 1426a-(cl-1) to EN 54-3:2014 + A1:2019, EN 54-23:2010

Certificated Products		LPCB Ref. No.
C9091T	Conventional Sounder Beacon *Notes:* *1) Meets the requirements of EN 54-23 at the following:* *- Category C-3-8 + W-2.4-6* *- Flash rate 0.5Hz* *- One Mode (Light output synchronization)* *- Flash Colour White* *- For wall and ceiling mounting* *2) Meets the requirements of EN 54-3 at the following tone:* *- Tone 1: 667Hz - 2000Hz@0.22Hz*	1426a/01
A9091T	Addressable Sounder Beacon (DZ-90DZ-909191 Base) *Notes:* *1)Meets the requirement of EN 54-23 at the following:* *- Category C-3-8 + W-2.4-6* *- Flash Rate 0.5Hz* *- One Mode (Light output synchronization)* *- Flash Colour White* *- For wall and ceiling mounting* *2) Meets the requirements of EN 54-3 at the following tone:* *- Tone 1: 667Hz - 2000Hz@0.22Hz*	1426a/02

Base

DZ-9091K
DZ-9091
A copy of the certificate, confirming the full scope of approval including notes relating to the superscript references in the above table, may be viewed online by clicking on the product name in the associated entry on www.RedBookLive.com

Certificate No: 1426h-(cl-1) to EN 54-3:2014 + A1:2019

Certificated Products		LPCB Ref. No.
A9092T	Intelligent Red Sounder with Visual Indicator (DZ-9091K Base) *Notes:* *Meets the requirements of EN 54-3 at the following tone:* *Sweep tone 667Hz-2kHz @0.21Hz*	1426h/01

Base
DZ-9091K
A copy of the certificate, confirming the full scope of approval including notes relating to the superscript references in the above table, may be viewed online by clicking on the product name in the associated entry on www.RedBookLive.com

Shield Fire, Safety & Security Ltd

Genesis, Unit 3, Endeavour Drive, Basildon SS14 3WF, United Kingdom
Tel: 01708 377 731 • Fax: 01708 347 637
E-mail: shielduk@shieldglobal.com • Website: www.shieldglobal.com

Certificate No: 176e-(cl-2) to EN 54-3:2014 + A1:2019, EN 54-17:2005

Certificated Products		LPCB Ref. No.
SEN431A/CX/W	Addressable Type A (indoor) Ceiling Sounder Base with Short Circuit Isolator (Apollo Discovery) Notes: 1. Meets the requirements of EN 54-3 at the following tones: - Evacuate, 550Hz for 0.5s, 825Hz for 0.5s - Alternating, 925Hz for 0.25s, 626Hz for 0.25s - Dutch slow sweep, 500Hz to 1200Hz for 3.5s on, 0.5s off 2. Can be used as either: - A stand-alone device with locking white cap (BF330CTLIDW), or red cap (BF330CTLIDR), or - A stacked sounder base combination with detectors from the Apollo Discovery range	176e/03

A copy of the certificate, confirming the full scope of approval including notes relating to the superscript references in the above table, may be viewed online by clicking on the product name in the associated entry on www.RedBookLive.com

SHIELD FIRE, SAFETY AND SECURITY LIMITED

Unit 3 Endeavour Drive, Basildon, Essex SS14 3WF, United Kingdom
Tel: +44 1708 377731 • Fax: +44 1708 347637
E-mail: shielduk@shieldglobal.com • Website: www.shieldglobal.com

Certificate No: 010ak-(cl-4) to EN 54-3: 2001 + A1: 2002 + A2: 2006

Audible Warning Devices

Certificated Products		LPCB Ref. No.
SEN-A4021	enhanced deep isolating base) Note: 1. Meets the requirements of EN 54-3:2001 at the following tones: Standard-840Hz,0.5s/558Hz,0.5s Dutch (slow whoop)- 500-1200Hz in 3.5s, 0.5s off German DIN-1200-500Hz over 1s	010ak/01
SEN-A4022	Type B Intelligent Open Area Sounder Beacon (Red) (SEN-A4025 enhanced deep isolating base) Notes: 1. Meets the requirements of EN 54-3:2001 at the following tones: Standard-840Hz,0.5s/558Hz,0.5s Dutch (slow whoop)- 500-1200Hz in 3.5s, 0.5s off German DIN-1200-500Hz over 1s 2. The Beacon function is not approved to EN 54-23	010ak/03

Accessories:

SEN-A4025 Enhanced deep isolating base (Red)

A copy of the certificate, confirming the full scope of approval including notes relating to the superscript references in the above table, may be viewed online by clicking on the product name in the associated entry on www.RedBookLive.com

Certificate No: 010ax-(cl-1) to EN 54-3: 2001 + A1: 2002 + A2: 2006 & EN 54-17:2005

Audible Warning Devices

Certificated Products		**LPCB Ref. No.**
SEN-A4026	Addressable Sounder Base (White) with Isolator (SEN-A4027 and SEN-A4028 Caps) Notes: 1. Meets the requirements of EN 54-3: 2001 at the following tone settings: Tone 1 Apollo Evacuation Tone - 567Hz for 0.5s, 850Hz for 0.5s Tone 12 Alternating - (Hochiki & Fulleon) - 925Hz for 0.25s, 626Hz for 0.25s Tone 14 Medium Sweep - 800Hz to 970Hz at 1 Hz Tone 3 Dutch Slow Whoop (sweep) - 500Hz - 1200Hz for 3.5s, 0.5s off Tone 4 DIN Toe (sweep) - 1200Hz - 500Hz for 1s Tone 18 Swedish Fire Tone - 660Hz, 150ms on, 150ms off Tone 0 Apollo Alert Tone - 1s off, 1s 850Hz Tone 11 Continuous (Hochiki & Fulleon) - 925Hz Tone 13 Continuous - 970Hz Tone 2 Continuous - 850Hz Tone 17 Swedish all clear signal - Continuous - 660Hz 2. Type A and approved for sounder volumes 2-7 only.	010ax/01

Accessories:
SEN-A4027White Cap (Lockable)
SEN-A4028Red Cap (Lockable)

A copy of the certificate, confirming the full scope of approval including notes relating to the superscript references in the above table, may be viewed online by clicking on the product name in the associated entry on www.RedBookLive.com

---

SHIELD FIRE, SAFETY AND SECURITY LTD

Unit 3 Endeavour Drive, Basildon, Essex SS14 3WF, United Kingdom
Tel: +44 207 712 1610 • Fax: +44 207 712 1578
E-mail: shielduk@shieldglobal.com • Website: www.shieldglobal.com

Certificate No: 548e-(cl-4) to EN 54-3: 2001 + A1: 2002 + A2: 2006

Audible Warning Devices

Bases
DZ-03 Standard Base
S-49DB Deep Base
Shallow Base

Siemens Switzerland Ltd

Theilerstrasse 1a, , CH-6300 Zug, Switzerland
Website: www.siemens.com

Sounders

Accessories:

FDB221	Detector base
FDB221-AA	Detector base, addressed with 2 micro-terminals
FDB291	Base attachment
FDB293	Base attachment wet
FDB221/FDB221-AA	Analogue addressable base
FDB222 Flat,	Analogue addressable base
FDB291	Base attachment
FDB293	Base attachment humid

Certificate No: 531u-(cl-1) to EN 54-3:2014 + A1:2019

Certificated Products		**LPCB Ref. No.**
DBS720	Analogue Addressable Type A Base Sounder	531u/01

Certificated Products		LPCB Ref. No.
	Notes: 1) Meets the requirements of EN 54-3 with the following tones: 970Hz Continuous 950Hz; 1s on,1s off Intermittent 1200Hz500Hz at 1Hz Tone 3 Sweep down 500Hz1200Hz over 3.5s, 0.5s off Slow whoop 500Hz; 0.15s on, 0.1s off Pulse tone 500Hz; 0.15s on, 0.6s off Intermittent 500Hz Tone 7 Continuous 560Hz 0.1s/440Hz 0.4s Tone 8 Alternating 420Hz; 0.6s on, 0.65s off Tone 9 Intermittent 5001200Hz over 3.75s, 0.25s off Tone 10 Slow whoop 970Hz; 3 pulses 0.5s on, 0.5s off repeated after 1.5s Tone 11 Intermittent 2) Approved only when used with detector devices OP720, OH720, HI720, HI722, OOH740 and OOHC740	
FDSB291	Analogue Addressable Loop Sounder Base Note: 1) Meets the requirements of EN 54-3 at the following tones: 970Hz Continuous 950Hz 1s Intermittent 1200-500Hz Sweep Down 1s 520-1200Hz Sweep Up 3.5s, 0.5s off 500Hz Pulse 0.15s on, 0.1s off 500Hz Pulse 0.15s on, 0.6s off 500Hz Continuous 560Hz/440Hz 100ms on, 400ms off 420Hz 0.6s on, 0.65s off 500Hz-1200Hz Sweep Up 3.75s, 0.25s off 970Hz 3 pulses 0.5s on 0.5s off, then 1.5s pause	531u/02
FDSB292	Analogue Addressable Loop Sounder Base Notes: 1) Approved for use with detector models FDOOT241-9 and FDOOT241-A9 in collective mode 2) Meets the requirements of EN 54-3 at the following tone: 970Hz Continuous	531u/03
FDS224-R	Analogue Addressable Type B Sounder with Short Circuit Isolator, Red Body (FDB226-R, FDB227-R bases) Notes: 1. Meets the requirement of EN 54-3 at the following tones: 1 - Continuous 970Hz 2 - Intermittent 950Hz, 1s on, 1s off 3 - Sweep down 1200Hz to 500Hz, 1s period 4 - Slow whoop 500Hz to 1200Hz, 4s period, 3.5s sweep, 0.5s off 5 - Pulse tone 500Hz, 0.15s on, 0.1s off 6 - Intermittent 500Hz, 0.15s on, 0.6s off 7 - Continuous 500Hz 8 - Alternating 560Hz and 440Hz, 0.1s and 0.4s 9 - Intermittent 420Hz, 0.6s on, 0.65s off 10 - Slow whoop sweep up 500Hz to 1200Hz, 3.75s sweep, 0.25s off 11 - Intermittent 970Hz, three pulse 0.5s with 0.5s off, then 1.5s gap 12 - Sweep-up 800Hz to 970Hz, 1/7s period 13 - Industrial alarm 150Hz to 1000Hz, 10s rise, 40s hold at 1000Hz, 10s fall 2. Operating voltage range 12-33V	531p/04
FDS224-W	Analogue Addressable Type B Sounder with Short Circuit Isolator, White Body (FDB226-W, FDB227-W bases) Notes: 1. Meets the requirement of EN 54-3 at the following tones: 1 - Continuous 970Hz 2 - Intermittent 950Hz, 1s on, 1s off 3 - Sweep down 1200Hz to 500Hz, 1s period 4 - Slow whoop 500Hz to 1200Hz, 4s period, 3.5s sweep, 0.5s off 5 - Pulse tone 500Hz, 0.15s on, 0.1s off 6 - Intermittent 500Hz, 0.15s on, 0.6s off 7 - Continuous 500Hz 8 - Alternating 560Hz and 440Hz, 0.1s and 0.4s 9 - Intermittent 420Hz, 0.6s on, 0.65s off 10 - Slow whoop sweep up 500Hz to 1200Hz, 3.75s sweep, 0.25s off 11 - Intermittent 970Hz, three pulse 0.5s with 0.5s off, then 1.5s gap 12 - Sweep-up 800Hz to 970Hz, 1/7s period 13 - Industrial alarm 150Hz to 1000Hz, 10s rise, 40s hold at 1000Hz, 10s fall	531p/04

Certificated Products		LPCB Ref. No.
	2. Operating voltage range 12-33V	
FDS225-R	Analogue Addressable Type B Voice Sounder with Short Circuit Isolator, Red Body (FDB226-R, FDB227-R bases) Notes: 1. Meets the requirement of EN 54-3 at the following tones: 1 - Continuous 970Hz 2 - Intermittent 950Hz, 1s on, 1s off 3 - Sweep down 1200Hz to 500Hz, 1s period 4 - Slow whoop 500Hz to 1200Hz, 4s period, 3.5s sweep, 0.5s off 5 - Pulse tone 500Hz, 0.15s on, 0.1s off 6 - Intermittent 500Hz, 0.15s on, 0.6s off 7 - Continuous 500Hz 8 - Alternating 560Hz and 440Hz, 0.1s and 0.4s 9 - Intermittent 420Hz, 0.6s on, 0.65s off 10 - Slow whoop sweep up 500Hz to 1200Hz, 3.75s sweep, 0.25s off 11 - Intermittent 970Hz, three pulse 0.5s with 0.5s off, then 1.5s gap 12 - Sweep-up 800Hz to 970Hz, 1/7s period 13 - Industrial alarm 150Hz to 1000Hz, 10s rise, 40s hold at 1000Hz, 10s fall	531p/05
	2. Operating voltage range 12-33V	
FDS225-W	Analogue Addressable Type B Voice Sounder with Short Circuit Isolator, White Body (FDB226-W, FDB227-W bases) Notes: 1. Meets the requirement of EN 54-3 at the following tones: 1 - Continuous 970Hz 2 - Intermittent 950Hz, 1s on, 1s off 3 - Sweep down 1200Hz to 500Hz, 1s period 4 - Slow whoop 500Hz to 1200Hz, 4s period, 3.5s sweep, 0.5s off 5 - Pulse tone 500Hz, 0.15s on, 0.1s off 6 - Intermittent 500Hz, 0.15s on, 0.6s off 7 - Continuous 500Hz 8 - Alternating 560Hz and 440Hz, 0.1s and 0.4s 9 - Intermittent 420Hz, 0.6s on, 0.65s off 10 - Slow whoop sweep up 500Hz to 1200Hz, 3.75s sweep, 0.25s off 11 - Intermittent 970Hz, three pulse 0.5s with 0.5s off, then 1.5s gap 12 - Sweep-up 800Hz to 970Hz, 1/7s period 13 - Industrial alarm 150Hz to 1000Hz, 10s rise, 40s hold at 1000Hz, 10s fall	531p/05
	2. Operating voltage range 12-33V	
FDS364-R	Analogue Addressable Type B Sounder with Short Circuit Isolator, Red Body (FDB226-R, FDB227-R bases) Notes: 1. Meets the requirement of EN 54-3 at the following tones: 1 - Continuous 970Hz 2 - Intermittent 950Hz, 1s on, 1s off 3 - Sweep down 1200Hz to 500Hz, 1s period 4 - Slow whoop 500Hz to 1200Hz, 4s period, 3.5s sweep, 0.5s off 5 - Pulse tone 500Hz, 0.15s on, 0.1s off 6 - Intermittent 500Hz, 0.15s on, 0.6s off 7 - Continuous 500Hz 8 - Alternating 560Hz and 440Hz, 0.1s and 0.4s 9 - Intermittent 420Hz, 0.6s on, 0.65s off 10 - Slow whoop sweep up 500Hz to 1200Hz, 3.75s sweep, 0.25s off 11 - Intermittent 970Hz, three pulse 0.5s with 0.5s off, then 1.5s gap 12 - Sweep-up 800Hz to 970Hz, 1/7s period 13 - Industrial alarm 150Hz to 1000Hz, 10s rise, 40s hold at 1000Hz, 10s fall	531y/01
	2. Operating voltage range 12-33V	
FDS364-W	Analogue Addressable Type B Sounder with Short Circuit Isolator, White Body (FDB226-W, FDB227-W bases) Notes: 1. Meets the requirement of EN 54-3 at the following tones: 1 - Continuous 970Hz 2 - Intermittent 950Hz, 1s on, 1s off 3 - Sweep down 1200Hz to 500Hz, 1s period 4 - Slow whoop 500Hz to 1200Hz, 4s period, 3.5s sweep, 0.5s off 5 - Pulse tone 500Hz, 0.15s on, 0.1s off 6 - Intermittent 500Hz, 0.15s on, 0.6s off 7 - Continuous 500Hz 8 - Alternating 560Hz and 440Hz, 0.1s and 0.4s 9 - Intermittent 420Hz, 0.6s on, 0.65s off 10 - Slow whoop sweep up 500Hz to 1200Hz, 3.75s sweep, 0.25s off	531y/01

Certificated Products		LPCB Ref. No.
	11 - Intermittent 970Hz, three pulse 0.5s with 0.5s off, then 1.5s gap 12 - Sweep-up 800Hz to 970Hz, 1/7s period 13 - Industrial alarm 150Hz to 1000Hz, 10s rise, 40s hold at 1000Hz, 10s fall 2. Operating voltage range 12-33V	
FDB226-R / FDB226-W	Base (IP33C)	
FDB227-R / FDB227-W	Deep Base (IP33C)	

A copy of the certificate, confirming the full scope of approval including notes relating to the superscript references in the above table, may be viewed online by clicking on the product name in the associated entry on www.RedBookLive.com

Certificate No: 531v-(cl-1) to EN 54-3:2014 + A1:2019, EN 54-17:2005, EN 54-23:2010

Certificated Products		LPCB Ref. No.
FDS226-RR	Analogue Addressable Type B Sounder Beacon VAD with Short Circuit isolator, Red Body, Red LEDs (FDB226-R, FDB227-R bases) Notes: 1. Meets the requirement of EN 54-3 at the following tones: 1 - Continuous 970Hz 2 - Intermittent 950Hz, 1s on, 1s off 3 - Sweep down 1200Hz to 500Hz, 1s period 4 - Slow whoop 500Hz to 1200Hz, 4s period, 3.5s sweep, 0.5s off 5 - Pulse tone 500Hz, 0.15s on, 0.1s off 6 - Intermittent 500Hz, 0.15s on, 0.6s off 7 - Continuous 500Hz 8 - Alternating 560Hz and 440Hz, 0.1s and 0.4s 9 - Intermittent 420Hz, 0.6s on, 0.65s off 10 - Slow whoop sweep up 500Hz to 1200Hz, 3.75s sweep, 0.25s off 11 - Intermittent 970Hz, three pulse 0.5s with 0.5s off, then 1.5s gap 12 – Sweep-up 800Hz to 970Hz, 1/7s period 13 - Industrial alarm 150Hz to 1000Hz, 10s rise, 40s hold at 1000Hz, 10s fall 2) Meets the requirements of EN 54-23 at the following: - Category W-2.8-8.8 (High Beacon Intensity) W-2.4-7.5 (Medium Beacon Intensity) O-2-6.2 (Low Beacon Intensity) • Flash Rate 0.5Hz • Operating Voltage Range 16-33V	531v/01
FDS226-WR	Analogue Addressable Type B Sounder Beacon VAD with Short Circuit isolator, White Body, Red LEDs (FDB226-W, FDB227-W bases) Notes: 1. Meets the requirement of EN 54-3 at the following tones: 1 - Continuous 970Hz 2 - Intermittent 950Hz, 1s on, 1s off 3 - Sweep down 1200Hz to 500Hz, 1s period 4 - Slow whoop 500Hz to 1200Hz, 4s period, 3.5s sweep, 0.5s off 5 - Pulse tone 500Hz, 0.15s on, 0.1s off 6 - Intermittent 500Hz, 0.15s on, 0.6s off 7 - Continuous 500Hz 8 - Alternating 560Hz and 440Hz, 0.1s and 0.4s 9 - Intermittent 420Hz, 0.6s on, 0.65s off 10 - Slow whoop sweep up 500Hz to 1200Hz, 3.75s sweep, 0.25s off 11 - Intermittent 970Hz, three pulse 0.5s with 0.5s off, then 1.5s gap 12 – Sweep-up 800Hz to 970Hz, 1/7s period 13 - Industrial alarm 150Hz to 1000Hz, 10s rise, 40s hold at 1000Hz, 10s fall 2) Meets the requirements of EN 54-23 at the following: - Category W-2.8-8.8 (High Beacon Intensity) W-2.4-7.5 (Medium Beacon Intensity) O-2-6.2 (Low Beacon Intensity) • Flash Rate 0.5Hz • Operating Voltage Range 16-33V	531v/01
FDS226-RW	Analogue Addressable Type B Sounder Beacon VAD with Short Circuit isolator, Red Body, White LEDs (FDB226-R, FDB227-R bases)	531v/02

Certificated Products		LPCB Ref. No.
	Notes: 1. Meets the requirement of EN 54-3 at the following tones: 1 - Continuous 970Hz 2 - Intermittent 950Hz, 1s on, 1s off 3 - Sweep down 1200Hz to 500Hz, 1s period 4 - Slow whoop 500Hz to 1200Hz, 4s period, 3.5s sweep, 0.5s off 5 - Pulse tone 500Hz, 0.15s on, 0.1s off 6 - Intermittent 500Hz, 0.15s on, 0.6s off 7 - Continuous 500Hz 8 - Alternating 560Hz and 440Hz, 0.1s and 0.4s 9 - Intermittent 420Hz, 0.6s on, 0.65s off 10 - Slow whoop sweep up 500Hz to 1200Hz, 3.75s sweep, 0.25s off 11 - Intermittent 970Hz, three pulse 0.5s with 0.5s off, then 1.5s gap 12 – Sweep-up 800Hz to 970Hz, 1/7s period 13 - Industrial alarm 150Hz to 1000Hz, 10s rise, 40s hold at 1000Hz, 10s fall 2) Meets the requirements of EN 54-23 at the following: - Category W-3.2-10 (High Beacon Intensity) W-2.4-7.5 (Medium Beacon Intensity) O-2-6.2 (Low Beacon Intensity) • Flash Rate 0.5Hz • Operating Voltage Range 16-33V	
FDS226-WW	Analogue Addressable Type B Sounder Beacon VAD with Short Circuit isolator, White Body, White LEDs (FDB226-W, FDB227-W bases) Notes: 1. Meets the requirement of EN 54-3 at the following tones: 1 - Continuous 970Hz 2 - Intermittent 950Hz, 1s on, 1s off 3 - Sweep down 1200Hz to 500Hz, 1s period 4 - Slow whoop 500Hz to 1200Hz, 4s period, 3.5s sweep, 0.5s off 5 - Pulse tone 500Hz, 0.15s on, 0.1s off 6 - Intermittent 500Hz, 0.15s on, 0.6s off 7 - Continuous 500Hz 8 - Alternating 560Hz and 440Hz, 0.1s and 0.4s 9 - Intermittent 420Hz, 0.6s on, 0.65s off 10 - Slow whoop sweep up 500Hz to 1200Hz, 3.75s sweep, 0.25s off 11 - Intermittent 970Hz, three pulse 0.5s with 0.5s off, then 1.5s gap 12 – Sweep-up 800Hz to 970Hz, 1/7s period 13 - Industrial alarm 150Hz to 1000Hz, 10s rise, 40s hold at 1000Hz, 10s fall 2) Meets the requirements of EN 54-23 at the following: - Category W-3.2-10 (High Beacon Intensity) W-2.4-7.5 (Medium Beacon Intensity) O-2-6.2 (Low Beacon Intensity) • Flash Rate 0.5Hz • Operating Voltage Range 16-33V	531v/02
FDS227-RR	Analogue Addressable Type B Voice Sounder Beacon VAD with Short Circuit isolator, Red Body, Red LEDs (FDB226-R, FDB227-R bases) Notes: Notes: 1. Meets the requirement of EN 54-3 at the following tones: 1 - Continuous 970Hz 2 - Intermittent 950Hz, 1s on, 1s off 3 - Sweep down 1200Hz to 500Hz, 1s period 4 - Slow whoop 500Hz to 1200Hz, 4s period, 3.5s sweep, 0.5s off 5 - Pulse tone 500Hz, 0.15s on, 0.1s off 6 - Intermittent 500Hz, 0.15s on, 0.6s off 7 - Continuous 500Hz 8 - Alternating 560Hz and 440Hz, 0.1s and 0.4s 9 - Intermittent 420Hz, 0.6s on, 0.65s off 10 - Slow whoop sweep up 500Hz to 1200Hz, 3.75s sweep, 0.25s off 11 - Intermittent 970Hz, three pulse 0.5s with 0.5s off, then 1.5s gap 12 – Sweep-up 800Hz to 970Hz, 1/7s period 13 - Industrial alarm 150Hz to 1000Hz, 10s rise, 40s hold at 1000Hz, 10s fall 2) Meets the requirements of EN 54-23 at the following: - Category W-2.8-8.8 (High Beacon Intensity) W-2.4-7.5 (Medium Beacon Intensity) O-2-6.2 (Low Beacon Intensity) • Flash Rate 0.5Hz	531v/03

Certificated Products		LPCB Ref. No.
	• Operating Voltage Range 16-33V	
FDS227-WR	Analogue Addressable Type B Voice Sounder Beacon VAD with Short Circuit Isolator, White Body, Red LEDs (FDB226-W, FDB227-W bases) Notes: 1. Meets the requirement of EN 54-3 at the following tones: 1 - Continuous 970Hz 2 - Intermittent 950Hz, 1s on, 1s off 3 - Sweep down 1200Hz to 500Hz, 1s period 4 - Slow whoop 500Hz to 1200Hz, 4s period, 3.5s sweep, 0.5s off 5 - Pulse tone 500Hz, 0.15s on, 0.1s off 6 - Intermittent 500Hz, 0.15s on, 0.6s off 7 - Continuous 500Hz 8 - Alternating 560Hz and 440Hz, 0.1s and 0.4s 9 - Intermittent 420Hz, 0.6s on, 0.65s off 10 - Slow whoop sweep up 500Hz to 1200Hz, 3.75s sweep, 0.25s off 11 - Intermittent 970Hz, three pulse 0.5s with 0.5s off, then 1.5s gap 12 – Sweep-up 800Hz to 970Hz, 1/7s period 13 - Industrial alarm 150Hz to 1000Hz, 10s rise, 40s hold at 1000Hz, 10s fall 2) Meets the requirements of EN 54-23 at the following: - Category W-2.8-8.8 (High Beacon Intensity) W-2.4-7.5 (Medium Beacon Intensity) O-2-6.2 (Low Beacon Intensity) • Flash Rate 0.5Hz • Operating Voltage Range 16-33V	531v/03
FDS227-RR-C	Analogue Addressable Type B Voice Sounder Beacon VAD with Short Circuit isolator, Red Body, Red LEDs* (FDB226-R, FDB227-R bases) Notes: 1. Meets the requirement of EN 54-3 at the following tones: 1 - Continuous 970Hz 2 - Intermittent 950Hz, 1s on, 1s off 3 - Sweep down 1200Hz to 500Hz, 1s period 4 - Slow whoop 500Hz to 1200Hz, 4s period, 3.5s sweep, 0.5s off 5 - Pulse tone 500Hz, 0.15s on, 0.1s off 6 - Intermittent 500Hz, 0.15s on, 0.6s off 7 - Continuous 500Hz 8 - Alternating 560Hz and 440Hz, 0.1s and 0.4s 9 - Intermittent 420Hz, 0.6s on, 0.65s off 10 - Slow whoop sweep up 500Hz to 1200Hz, 3.75s sweep, 0.25s off 11 - Intermittent 970Hz, three pulse 0.5s with 0.5s off, then 1.5s gap 12 – Sweep-up 800Hz to 970Hz, 1/7s period 13 - Industrial alarm 150Hz to 1000Hz, 10s rise, 40s hold at 1000Hz, 10s fall 2) Meets the requirements of EN 54-23 at the following: - Category W-2.8-8.8 (High Beacon Intensity) W-2.4-7.5 (Medium Beacon Intensity) O-2-6.2 (Low Beacon Intensity) • Flash Rate 0.5Hz • Operating Voltage Range 16-33V *Can be configured according to specific customer requirements	531v/03
FDS227-WR-C	Analogue Addressable Type B Voice Sounder Beacon VAD with Short Circuit isolator, White Body, Red LEDs* (FDB226-W, FDB227-W bases) Notes: 1. Meets the requirement of EN 54-3 at the following tones: 1 - Continuous 970Hz 2 - Intermittent 950Hz, 1s on, 1s off 3 - Sweep down 1200Hz to 500Hz, 1s period 4 - Slow whoop 500Hz to 1200Hz, 4s period, 3.5s sweep, 0.5s off 5 - Pulse tone 500Hz, 0.15s on, 0.1s off 6 - Intermittent 500Hz, 0.15s on, 0.6s off 7 - Continuous 500Hz 8 - Alternating 560Hz and 440Hz, 0.1s and 0.4s 9 - Intermittent 420Hz, 0.6s on, 0.65s off 10 - Slow whoop sweep up 500Hz to 1200Hz, 3.75s sweep, 0.25s off 11 - Intermittent 970Hz, three pulse 0.5s with 0.5s off, then 1.5s gap 12 – Sweep-up 800Hz to 970Hz, 1/7s period 13 - Industrial alarm 150Hz to 1000Hz, 10s rise, 40s hold at 1000Hz, 10s fall	531v/03

Certificated Products		LPCB Ref. No.
	2) Meets the requirements of EN 54-23 at the following: - Category W-2.8-8.8 (High Beacon Intensity) W-2.4-7.5 (Medium Beacon Intensity) O-2-6.2 (Low Beacon Intensity) • Flash Rate 0.5Hz • Operating Voltage Range 16-33V *Can be configured according to specific customer requirements	
FDS227-RW	Analogue Addressable Type B Voice Sounder Beacon VAD with Short Circuit isolator, Red Body, White LEDs (FDB226-R, FDB227-R bases) Notes: 1. Meets the requirement of EN 54-3 at the following tones: 1 - Continuous 970Hz 2 - Intermittent 950Hz, 1s on, 1s off 3 - Sweep down 1200Hz to 500Hz, 1s period 4 - Slow whoop 500Hz to 1200Hz, 4s period, 3.5s sweep, 0.5s off 5 - Pulse tone 500Hz, 0.15s on, 0.1s off 6 - Intermittent 500Hz, 0.15s on, 0.6s off 7 - Continuous 500Hz 8 - Alternating 560Hz and 440Hz, 0.1s and 0.4s 9 - Intermittent 420Hz, 0.6s on, 0.65s off 10 - Slow whoop sweep up 500Hz to 1200Hz, 3.75s sweep, 0.25s off 11 - Intermittent 970Hz, three pulse 0.5s with 0.5s off, then 1.5s gap 12 – Sweep-up 800Hz to 970Hz, 1/7s period 13 - Industrial alarm 150Hz to 1000Hz, 10s rise, 40s hold at 1000Hz, 10s fall 2) Meets the requirements of EN 54-23 at the following: - Category W-3.2-10 (High Beacon Intensity) W-2.4-7.5 (Medium Beacon Intensity) O-2-6.2 (Low Beacon Intensity) • Flash Rate 0.5Hz • Operating Voltage Range 16-33V	531v/04
FDS227-WW	Analogue Addressable Type B Voice Sounder Beacon VAD with Short Circuit isolator, White Body, White LEDs (FDB226-W, FDB227-W bases) Notes: 1. Meets the requirement of EN 54-3 at the following tones: 1 - Continuous 970Hz 2 - Intermittent 950Hz, 1s on, 1s off 3 - Sweep down 1200Hz to 500Hz, 1s period 4 - Slow whoop 500Hz to 1200Hz, 4s period, 3.5s sweep, 0.5s off 5 - Pulse tone 500Hz, 0.15s on, 0.1s off 6 - Intermittent 500Hz, 0.15s on, 0.6s off 7 - Continuous 500Hz 8 - Alternating 560Hz and 440Hz, 0.1s and 0.4s 9 - Intermittent 420Hz, 0.6s on, 0.65s off 10 - Slow whoop sweep up 500Hz to 1200Hz, 3.75s sweep, 0.25s off 11 - Intermittent 970Hz, three pulse 0.5s with 0.5s off, then 1.5s gap 12 – Sweep-up 800Hz to 970Hz, 1/7s period 13 - Industrial alarm 150Hz to 1000Hz, 10s rise, 40s hold at 1000Hz, 10s fall 2) Meets the requirements of EN 54-23 at the following: - Category W-3.2-10 (High Beacon Intensity) W-2.4-7.5 (Medium Beacon Intensity) O-2-6.2 (Low Beacon Intensity) • Flash Rate 0.5Hz • Operating Voltage Range 16-33V	531v/04
FDS227-RW-C	Analogue Addressable Type B Voice Sounder Beacon VAD with Short Circuit isolator, Red Body, White LEDs* (FDB226-R, FDB227-R bases) Notes: 1. Meets the requirement of EN 54-3 at the following tones: 1 - Continuous 970Hz 2 - Intermittent 950Hz, 1s on, 1s off 3 - Sweep down 1200Hz to 500Hz, 1s period 4 - Slow whoop 500Hz to 1200Hz, 4s period, 3.5s sweep, 0.5s off 5 - Pulse tone 500Hz, 0.15s on, 0.1s off 6 - Intermittent 500Hz, 0.15s on, 0.6s off 7 - Continuous 500Hz 8 - Alternating 560Hz and 440Hz, 0.1s and 0.4s 9 - Intermittent 420Hz, 0.6s on, 0.65s off	531v/04

Certificated Products		LPCB Ref. No.
	10 - Slow whoop sweep up 500Hz to 1200Hz, 3.75s sweep, 0.25s off 11 - Intermittent 970Hz, three pulse 0.5s with 0.5s off, then 1.5s gap 12 – Sweep-up 800Hz to 970Hz, 1/7s period 13 - Industrial alarm 150Hz to 1000Hz, 10s rise, 40s hold at 1000Hz, 10s fall 2) Meets the requirements of EN 54-23 at the following: - Category W-3.2-10 (High Beacon Intensity) W-2.4-7.5 (Medium Beacon Intensity) O-2-6.2 (Low Beacon Intensity) • Flash Rate 0.5Hz • Operating Voltage Range 16-33V	
FDS227-WW-C	Analogue Addressable Type B Voice Sounder Beacon VAD with Short Circuit isolator, White Body, White LEDs* (FDB226-W, FDB227-W bases) Notes: 1. Meets the requirement of EN 54-3 at the following tones: 1 - Continuous 970Hz 2 - Intermittent 950Hz, 1s on, 1s off 3 - Sweep down 1200Hz to 500Hz, 1s period 4 - Slow whoop 500Hz to 1200Hz, 4s period, 3.5s sweep, 0.5s off 5 - Pulse tone 500Hz, 0.15s on, 0.1s off 6 - Intermittent 500Hz, 0.15s on, 0.6s off 7 - Continuous 500Hz 8 - Alternating 560Hz and 440Hz, 0.1s and 0.4s 9 - Intermittent 420Hz, 0.6s on, 0.65s off 10 - Slow whoop sweep up 500Hz to 1200Hz, 3.75s sweep, 0.25s off 11 - Intermittent 970Hz, three pulse 0.5s with 0.5s off, then 1.5s gap 12 – Sweep-up 800Hz to 970Hz, 1/7s period 13 - Industrial alarm 150Hz to 1000Hz, 10s rise, 40s hold at 1000Hz, 10s fall 2) Meets the requirements of EN 54-23 at the following: - Category W-3.2-10 (High Beacon Intensity) W-2.4-7.5 (Medium Beacon Intensity) O-2-6.2 (Low Beacon Intensity) • Flash Rate 0.5Hz • Operating Voltage Range 16-33V *Can be configured according to specific customer requirements	531v/04
FDSB226-WW	Analogue Addressable Type A Sounder Beacon Base with Short Circuit Isolator, White Body, White LEDs (FDB228, FDB229 bases) Notes: 1. Meets the requirement of EN 54-3 at the following tones: 1 - Continuous 970Hz 2 - Intermittent 950Hz, 1s on, 1s off 3 - Sweep down 1200Hz to 500Hz, 1s period 4 - Slow whoop 500Hz to 1200Hz, 4s period, 3.5s sweep, 0.5s off 5 - Pulse tone 500Hz, 0.15s on, 0.1s off 6 - Intermittent 500Hz, 0.15s on, 0.6s off 7 - Continuous 500Hz 8 - Alternating 560Hz and 440Hz, 0.1s and 0.4s 9 - Intermittent 420Hz, 0.6s on, 0.65s off 10 - Slow whoop sweep up 500Hz to 1200Hz, 3.75s sweep, 0.25s off 11 - Intermittent 970Hz, three pulse 0.5s with 0.5s off, then 1.5s gap 12 - Sweep-up 800Hz to 970Hz, 1/7s period 13 - Industrial alarm 150Hz to 1000Hz, 10s rise, 40s hold at 1000Hz, 10s fall 2) Meets the requirements of EN 54-23 at the following: - Category O-4-15 (High Beacon Intensity) C-3-12 (Medium Beacon Intensity) O-2.5-6.5 (Low Beacon Intensity) • Flash Rate 0.5Hz • Operating Voltage Range 16-33V 3) Compatible with Sinteso and Cerberus range of detectors as applicable	531v/05
FDSB226-WR	Analogue Addressable Type A Sounder Beacon Base with Short Circuit Isolator, White Body, Red LEDs (FDB228, FDB229 bases) Notes: 1. Meets the requirement of EN 54-3 at the following tones: 1 - Continuous 970Hz 2 - Intermittent 950Hz, 1s on, 1s off	531v/06

Certificated Products		LPCB Ref. No.
	3 - Sweep down 1200Hz to 500Hz, 1s period 4 - Slow whoop 500Hz to 1200Hz, 4s period, 3.5s sweep, 0.5s off 5 - Pulse tone 500Hz, 0.15s on, 0.1s off 6 - Intermittent 500Hz, 0.15s on, 0.6s off 7 - Continuous 500Hz 8 - Alternating 560Hz and 440Hz, 0.1s and 0.4s 9 - Intermittent 420Hz, 0.6s on, 0.65s off 10 - Slow whoop sweep up 500Hz to 1200Hz, 3.75s sweep, 0.25s off 11 - Intermittent 970Hz, three pulse 0.5s with 0.5s off, then 1.5s gap 12 - Sweep-up 800Hz to 970Hz, 1/7s period 13 - Industrial alarm 150Hz to 1000Hz, 10s rise, 40s hold at 1000Hz, 10s fall 2) Meets the requirements of EN 54-23 at the following: - Category C-3-12 (High Beacon Intensity) C-3-10 (Medium Beacon Intensity) O-2.5-6.5 (Low Beacon Intensity) - Flash Rate 0.5Hz - Operating Voltage Range 16-33V 3) Compatible with Sinteso and Cerberus range of detectors as applicable	
FDSB227-WW	Analogue Addressable Type A Voice Sounder Beacon Base with Short Circuit Isolator, White Body, White LEDs (FDB228, FDB229 bases) Notes: 1. Meets the requirement of EN 54-3 at the following tones: 1 - Continuous 970Hz 2 - Intermittent 950Hz, 1s on, 1s off 3 - Sweep down 1200Hz to 500Hz, 1s period 4 - Slow whoop 500Hz to 1200Hz, 4s period, 3.5s sweep, 0.5s off 5 - Pulse tone 500Hz, 0.15s on, 0.1s off 6 - Intermittent 500Hz, 0.15s on, 0.6s off 7 - Continuous 500Hz 8 - Alternating 560Hz and 440Hz, 0.1s and 0.4s 9 - Intermittent 420Hz, 0.6s on, 0.65s off 10 - Slow whoop sweep up 500Hz to 1200Hz, 3.75s sweep, 0.25s off 11 - Intermittent 970Hz, three pulse 0.5s with 0.5s off, then 1.5s gap 12 - Sweep-up 800Hz to 970Hz, 1/7s period 13 - Industrial alarm 150Hz to 1000Hz, 10s rise, 40s hold at 1000Hz, 10s fall The following tones and voice messages have been certified according to EN 54-3: Tone 1 with 'Evacuation Fire' in English (en) Tone 2 with 'Alert' in English (en) Tone 3 with 'Evacuation Fire' in German (de) Tone 3 with 'Alert' in German (de) 2) Meets the requirements of EN 54-23 at the following: - Category O-4-15 (High Beacon Intensity) C-3-12 (Medium Beacon Intensity) O-2.5-6.5 (Low Beacon Intensity) Flash Rate 0.5Hz Operating Voltage Range 16-33V 3) Compatible with Sinteso and Cerberus range of detectors as applicable	531v/07
FDSB227-WW-C	Analogue Addressable Type A Voice Sounder Beacon Base, White Body, White LEDs (FDB228, FDB229 bases) Notes: 1. Meets the requirement of EN 54-3 at the following tones: 1 - Continuous 970Hz 2 - Intermittent 950Hz, 1s on, 1s off 3 - Sweep down 1200Hz to 500Hz, 1s period 4 - Slow whoop 500Hz to 1200Hz, 4s period, 3.5s sweep, 0.5s off 5 - Pulse tone 500Hz, 0.15s on, 0.1s off 6 - Intermittent 500Hz, 0.15s on, 0.6s off 7 - Continuous 500Hz 8 - Alternating 560Hz and 440Hz, 0.1s and 0.4s 9 - Intermittent 420Hz, 0.6s on, 0.65s off 10 - Slow whoop sweep up 500Hz to 1200Hz, 3.75s sweep, 0.25s off 11 - Intermittent 970Hz, three pulse 0.5s with 0.5s off, then 1.5s gap 12 - Sweep-up 800Hz to 970Hz, 1/7s period 13 - Industrial alarm 150Hz to 1000Hz, 10s rise, 40s hold at 1000Hz, 10s fall	531v/07

Certificated Products		LPCB Ref. No.
	The following tones and voice messages have been certified according to EN 54-3: Tone 1 with 'Evacuation Fire' in English (en) Tone 2 with 'Alert' in English (en) Tone 3 with 'Evacuation Fire' in German (de) Tone 3 with 'Alert' in German (de) 2) Meets the requirements of EN 54-23 at the following: - Category O-4-15 (High Beacon Intensity) C-3-12 (Medium Beacon Intensity) O-2.5-6.5 (Low Beacon Intensity) - Flash Rate 0.5Hz - Operating Voltage Range 16-33V 3) Compatible with Sinteso and Cerberus range of detectors as applicable * Can be configured according to specific customer requirements.	
FDSB227-WR	Analogue Addressable Type A Voice Sounder Beacon Base with Short Circuit Isolator, White Body, Red LEDs (FDB228, FDB229 bases) Notes: 1. Meets the requirement of EN 54-3 at the following tones: 1 - Continuous 970Hz 2 - Intermittent 950Hz, 1s on, 1s off 3 - Sweep down 1200Hz to 500Hz, 1s period 4 - Slow whoop 500Hz to 1200Hz, 4s period, 3.5s sweep, 0.5s off 5 - Pulse tone 500Hz, 0.15s on, 0.1s off 6 - Intermittent 500Hz, 0.15s on, 0.6s off 7 - Continuous 500Hz 8 - Alternating 560Hz and 440Hz, 0.1s and 0.4s 9 - Intermittent 420Hz, 0.6s on, 0.65s off 10 - Slow whoop sweep up 500Hz to 1200Hz, 3.75s sweep, 0.25s off 11 - Intermittent 970Hz, three pulse 0.5s with 0.5s off, then 1.5s gap 12 - Sweep-up 800Hz to 970Hz, 1/7s period 13 - Industrial alarm 150Hz to 1000Hz, 10s rise, 40s hold at 1000Hz, 10s fall The following tones and voice messages have been certified according to EN 54-3: Tone 1 with 'Evacuation Fire' in English (en) Tone 2 with 'Alert' in English (en) Tone 3 with 'Evacuation Fire' in German (de) Tone 3 with 'Alert' in German (de) 2) Meets the requirements of EN 54-23 at the following: - Category C-3-12 (High Beacon Intensity) C-3-10 (Medium Beacon Intensity) O-2.5-6.5 (Low Beacon Intensity) - Flash Rate 0.5Hz - Operating Voltage Range 16-33V 3) Compatible with Sinteso and Cerberus range of detectors as applicable	531v/08
FDSB227-WR-C	Analogue Addressable Type A Voice Sounder Beacon Base, White Body, Red LEDs (FDB228, FDB229 bases) Notes: 1. Meets the requirement of EN 54-3 at the following tones: 1 - Continuous 970Hz 2 - Intermittent 950Hz, 1s on, 1s off 3 - Sweep down 1200Hz to 500Hz, 1s period 4 - Slow whoop 500Hz to 1200Hz, 4s period, 3.5s sweep, 0.5s off 5 - Pulse tone 500Hz, 0.15s on, 0.1s off 6 - Intermittent 500Hz, 0.15s on, 0.6s off 7 - Continuous 500Hz 8 - Alternating 560Hz and 440Hz, 0.1s and 0.4s 9 - Intermittent 420Hz, 0.6s on, 0.65s off 10 - Slow whoop sweep up 500Hz to 1200Hz, 3.75s sweep, 0.25s off 11 - Intermittent 970Hz, three pulse 0.5s with 0.5s off, then 1.5s gap 12 - Sweep-up 800Hz to 970Hz, 1/7s period 13 - Industrial alarm 150Hz to 1000Hz, 10s rise, 40s hold at 1000Hz, 10s fall The following tones and voice messages have been certified according to EN 54-3: Tone 1 with 'Evacuation Fire' in English (en) Tone 2 with 'Alert' in English (en) Tone 3 with 'Evacuation Fire' in German (de) Tone 3 with 'Alert' in German (de) 2) Meets the requirements of EN 54-23 at the following:	531v/08

Certificated Products		LPCB Ref. No.
	- Category C-3-12 (High Beacon Intensity) C-3-10(Medium Beacon Intensity) O-2.5-6.5 (Low Beacon Intensity) - Flash Rate 0.5Hz - Operating Voltage Range 16-33V 3) Compatible with Sinteso and Cerberus range of detectors as applicable * Can be configured according to specific customer requirements.	

Bases
FDB226-R / FDB226-W Base (IP33C)
FDB227-R / FDB227-W Deep base (IP33C)
FDB228 Flat Base
FDB229 Deep Base
FDBZ298 Blanking Plate
FDBZ221 Ring Attachment (for use with Sinteso range of detectors)

A copy of the certificate, confirming the full scope of approval including notes relating to the superscript references in the above table, may be viewed online by clicking on the product name in the associated entry on www.RedBookLive.com

Certificate No: 531y-(cl-1) to EN 54-3:2014 + A1:2019, EN 54-17:2005

Certificated Products		LPCB Ref. No.
FDS364-R	Analogue Addressable Type B Sounder with Short Circuit Isolator, Red Body (FDB226-R, FDB227-R bases) Notes: 1.the requirement of EN 54-3 at the following tones: 1 - Continuous 970Hz 2 - Intermittent 950Hz, 1s on, 1s off 3 - Sweep down 1200Hz to 500Hz, 1s period 4 - Slow whoop 500Hz to 1200Hz, 4s period, 3.5s sweep, 0.5s off 5 - Pulse tone 500Hz, 0.15s on, 0.1s off 6 - Intermittent 500Hz, 0.15s on, 0.6s off 7 - Continuous 500Hz 8 - Alternating 560Hz and 440Hz, 0.1s and 0.4s 9 - Intermittent 420Hz, 0.6s on, 0.65s off 10 - Slow whoop sweep up 500Hz to 1200Hz, 3.75s sweep, 0.25s off 11 - Intermittent 970Hz, three pulse 0.5s with 0.5s off, then 1.5s gap 12 - Sweep-up 800Hz to 970Hz, 1/7s period 13 - Industrial alarm 150Hz to 1000Hz, 10s rise, 40s hold at 1000Hz, 10s fall 2.voltage range 12-33V	531y/01
FDS364-W	Analogue Addressable Type B Sounder with Short Circuit Isolator, White Body (FDB226-W, FDB227-W bases) Notes: 1.the requirement of EN 54-3 at the following tones: 1 - Continuous 970Hz 2 - Intermittent 950Hz, 1s on, 1s off 3 - Sweep down 1200Hz to 500Hz, 1s period 4 - Slow whoop 500Hz to 1200Hz, 4s period, 3.5s sweep, 0.5s off 5 - Pulse tone 500Hz, 0.15s on, 0.1s off 6 - Intermittent 500Hz, 0.15s on, 0.6s off 7 - Continuous 500Hz 8 - Alternating 560Hz and 440Hz, 0.1s and 0.4s 9 - Intermittent 420Hz, 0.6s on, 0.65s off 10 - Slow whoop sweep up 500Hz to 1200Hz, 3.75s sweep, 0.25s off 11 - Intermittent 970Hz, three pulse 0.5s with 0.5s off, then 1.5s gap 12 - Sweep-up 800Hz to 970Hz, 1/7s period 13 - Industrial alarm 150Hz to 1000Hz, 10s rise, 40s hold at 1000Hz, 10s fall 2.voltage range 12-33V	531y/01

Bases
FDB226-R Base
FDB227-R Deep Base
FDB226-W Base
FDB227-W Deep Base

A copy of the certificate, confirming the full scope of approval including notes relating to the superscript references in the above table, may be viewed online by clicking on the product name in the associated entry on www.RedBookLive.com

Certificate No: 531p-(cl-1) to EN 54-3:2014 + A1:2019, EN 54-17:2005

Certificated Products		**LPCB Ref. No.**
FDS224-R	Analogue Addressable Type B Sounder with Short Circuit Isolator, Red Body (FDB226-R, FDB227-R bases) Notes: 1. Meets the requirement of EN 54-3 at the following tones: 1 - Continuous 970Hz 2 - Intermittent 950Hz, 1s on, 1s off 3 - Sweep down 1200Hz to 500Hz, 1s period 4 - Slow whoop 500Hz to 1200Hz, 4s period, 3.5s sweep, 0.5s off 5 - Pulse tone 500Hz, 0.15s on, 0.1s off 6 - Intermittent 500Hz, 0.15s on, 0.6s off 7 - Continuous 500Hz 8 - Alternating 560Hz and 440Hz, 0.1s and 0.4s 9 - Intermittent 420Hz, 0.6s on, 0.65s off 10 - Slow whoop sweep up 500Hz to 1200Hz, 3.75s sweep, 0.25s off 11 - Intermittent 970Hz, three pulse 0.5s with 0.5s off, then 1.5s gap 12 Sweep-up 800Hz to 970Hz, 1/7s period 13 - Industrial alarm 150Hz to 1000Hz, 10s rise, 40s hold at 1000Hz, 10s fall 2. Operating voltage range 12-33V	531p/04
FDS224-W	Analogue Addressable Type B Sounder with Short Circuit Isolator, White Body (FDB226-W, FDB227-W bases) Notes: 1. Meets the requirement of EN 54-3 at the following tones: 1 - Continuous 970Hz 2 - Intermittent 950Hz, 1s on, 1s off 3 - Sweep down 1200Hz to 500Hz, 1s period 4 - Slow whoop 500Hz to 1200Hz, 4s period, 3.5s sweep, 0.5s off 5 - Pulse tone 500Hz, 0.15s on, 0.1s off 6 - Intermittent 500Hz, 0.15s on, 0.6s off 7 - Continuous 500Hz 8 - Alternating 560Hz and 440Hz, 0.1s and 0.4s 9 - Intermittent 420Hz, 0.6s on, 0.65s off 10 - Slow whoop sweep up 500Hz to 1200Hz, 3.75s sweep, 0.25s off 11 - Intermittent 970Hz, three pulse 0.5s with 0.5s off, then 1.5s gap 12 Sweep-up 800Hz to 970Hz, 1/7s period 13 - Industrial alarm 150Hz to 1000Hz, 10s rise, 40s hold at 1000Hz, 10s fall 2. Operating voltage range 12-33V	531p/04
FDS225-R	Analogue Addressable Type B Voice Sounder with Short Circuit Isolator, Red Body (FDB226-R, FDB227-R bases) Notes: 1. Meets the requirement of EN 54-3 at the following tones: 1 - Continuous 970Hz 2 - Intermittent 950Hz, 1s on, 1s off 3 - Sweep down 1200Hz to 500Hz, 1s period 4 - Slow whoop 500Hz to 1200Hz, 4s period, 3.5s sweep, 0.5s off 5 - Pulse tone 500Hz, 0.15s on, 0.1s off 6 - Intermittent 500Hz, 0.15s on, 0.6s off 7 - Continuous 500Hz 8 - Alternating 560Hz and 440Hz, 0.1s and 0.4s 9 - Intermittent 420Hz, 0.6s on, 0.65s off 10 - Slow whoop sweep up 500Hz to 1200Hz, 3.75s sweep, 0.25s off 11 - Intermittent 970Hz, three pulse 0.5s with 0.5s off, then 1.5s gap 12 Sweep-up 800Hz to 970Hz, 1/7s period 13 - Industrial alarm 150Hz to 1000Hz, 10s rise, 40s hold at 1000Hz, 10s fall 2. Operating voltage range 12-33V	531p/05
FDS225-W	Analogue Addressable Type B Voice Sounder with Short Circuit Isolator, White Body (FDB226-W, FDB227-W bases) Notes: 1. Meets the requirement of EN 54-3 at the following tones: 1 - Continuous 970Hz 2 - Intermittent 950Hz, 1s on, 1s off 3 - Sweep down 1200Hz to 500Hz, 1s period 4 - Slow whoop 500Hz to 1200Hz, 4s period, 3.5s sweep, 0.5s off 5 - Pulse tone 500Hz, 0.15s on, 0.1s off	531p/05

Certificated Products		LPCB Ref. No.
	6 - Intermittent 500Hz, 0.15s on, 0.6s off 7 - Continuous 500Hz 8 - Alternating 560Hz and 440Hz, 0.1s and 0.4s 9 - Intermittent 420Hz, 0.6s on, 0.65s off 10 - Slow whoop sweep up 500Hz to 1200Hz, 3.75s sweep, 0.25s off 11 - Intermittent 970Hz, three pulse 0.5s with 0.5s off, then 1.5s gap 12 Sweep-up 800Hz to 970Hz, 1/7s period 13 - Industrial alarm 150Hz to 1000Hz, 10s rise, 40s hold at 1000Hz, 10s fall 2. Operating voltage range 12-33V	

Bases

FDB226-R / FDB226-W	Base (IP33C)
FDB227-R / FDB227-W	Deep base (IP33C)

A copy of the certificate, confirming the full scope of approval including notes relating to the superscript references in the above table, may be viewed online by clicking on the product name in the associated entry on www.RedBookLive.com

Certificate No: 531z-(cl-1) to EN 54-3:2014 + A1:2019, EN 54-17:2005, EN 54-23:2010

Certificated Products		LPCB Ref. No.
FDS366-RR	Analogue Addressable Type B Sounder Beacon VAD with SCI, Red Body, Red LEDs (FDB226-R, FDB227-R bases) Notes: 1.the requirement of EN 54-3 at the following tones: 1 - Continuous 970Hz 2 - Intermittent 950Hz, 1s on, 1s off 3 - Sweep down 1200Hz to 500Hz, 1s period 4 - Slow whoop 500Hz to 1200Hz, 4s period, 3.5s sweep, 0.5s off 5 - Pulse tone 500Hz, 0.15s on, 0.1s off 6 - Intermittent 500Hz, 0.15s on, 0.6s off 7 - Continuous 500Hz 8 - Alternating 560Hz and 440Hz, 0.1s and 0.4s 9 - Intermittent 420Hz, 0.6s on, 0.65s off 10 - Slow whoop sweep up 500Hz to 1200Hz, 3.75s sweep, 0.25s off 11 - Intermittent 970Hz, three pulse 0.5s with 0.5s off, then 1.5s gap 12 - Sweep-up 800Hz to 970Hz, 1/7s period 13 - Industrial alarm 150Hz to 1000Hz, 10s rise, 40s hold at 1000Hz, 10s fall 2.the requirements of EN 54-23 at the following: W-2.4-7.5 (Medium Beacon Intensity) Flash Rate 0.5Hz Operating Voltage Range 16-33V	531z/01
FDS366-RW	Analogue Addressable Type B Sounder Beacon VAD with SCI, Red Body, White LEDs (FDB226-R, FDB227-R bases) Notes: 1.the requirement of EN 54-3 at the following tones: 1 - Continuous 970Hz 2 - Intermittent 950Hz, 1s on, 1s off 3 - Sweep down 1200Hz to 500Hz, 1s period 4 - Slow whoop 500Hz to 1200Hz, 4s period, 3.5s sweep, 0.5s off 5 - Pulse tone 500Hz, 0.15s on, 0.1s off 6 - Intermittent 500Hz, 0.15s on, 0.6s off 7 - Continuous 500Hz 8 - Alternating 560Hz and 440Hz, 0.1s and 0.4s 9 - Intermittent 420Hz, 0.6s on, 0.65s off 10 - Slow whoop sweep up 500Hz to 1200Hz, 3.75s sweep, 0.25s off 11 - Intermittent 970Hz, three pulse 0.5s with 0.5s off, then 1.5s gap 12 - Sweep-up 800Hz to 970Hz, 1/7s period 13 - Industrial alarm 150Hz to 1000Hz, 10s rise, 40s hold at 1000Hz, 10s fall 2.the requirements of EN 54-23 at the following: W-2.4-7.5 (Medium Beacon Intensity) Flash Rate 0.5Hz Operating Voltage Range 16-33V	531z/02
FDS366-WR	Analogue Addressable Type B Sounder Beacon VAD with SCI, White Body, Red LEDs (FDB226-W, FDB227-W bases) Notes: 1.the requirement of EN 54-3 at the following tones: 1 - Continuous 970Hz	531z/01

Certificated Products		LPCB Ref. No.
	2 - Intermittent 950Hz, 1s on, 1s off 3 - Sweep down 1200Hz to 500Hz, 1s period 4 - Slow whoop 500Hz to 1200Hz, 4s period, 3.5s sweep, 0.5s off 5 - Pulse tone 500Hz, 0.15s on, 0.1s off 6 - Intermittent 500Hz, 0.15s on, 0.6s off 7 - Continuous 500Hz 8 - Alternating 560Hz and 440Hz, 0.1s and 0.4s 9 - Intermittent 420Hz, 0.6s on, 0.65s off 10 - Slow whoop sweep up 500Hz to 1200Hz, 3.75s sweep, 0.25s off 11 - Intermittent 970Hz, three pulse 0.5s with 0.5s off, then 1.5s gap 12 - Sweep-up 800Hz to 970Hz, 1/7s period 13 - Industrial alarm 150Hz to 1000Hz, 10s rise, 40s hold at 1000Hz, 10s fall 2.the requirements of EN 54-23 at the following: W-2.4-7.5 (Medium Beacon Intensity) Flash Rate 0.5Hz Operating Voltage Range 16-33V	
FDS366-WW	Analogue Addressable Type B Sounder Beacon VAD with SCI, White Body, White LEDs (FDB226-W, FDB227-W bases) Notes: 1.the requirement of EN 54-3 at the following tones: 1 - Continuous 970Hz 2 - Intermittent 950Hz, 1s on, 1s off 3 - Sweep down 1200Hz to 500Hz, 1s period 4 - Slow whoop 500Hz to 1200Hz, 4s period, 3.5s sweep, 0.5s off 5 - Pulse tone 500Hz, 0.15s on, 0.1s off 6 - Intermittent 500Hz, 0.15s on, 0.6s off 7 - Continuous 500Hz 8 - Alternating 560Hz and 440Hz, 0.1s and 0.4s 9 - Intermittent 420Hz, 0.6s on, 0.65s off 10 - Slow whoop sweep up 500Hz to 1200Hz, 3.75s sweep, 0.25s off 11 - Intermittent 970Hz, three pulse 0.5s with 0.5s off, then 1.5s gap 12 - Sweep-up 800Hz to 970Hz, 1/7s period 13 - Industrial alarm 150Hz to 1000Hz, 10s rise, 40s hold at 1000Hz, 10s fall 2.the requirements of EN 54-23 at the following: W-2.4-7.5 (Medium Beacon Intensity) Flash Rate 0.5Hz Operating Voltage Range 16-33V	531z/01

Bases
FDB226-R Base
FDB227-R Deep Base
FDB226-W Base
FDB227-W Deep Base

A copy of the certificate, confirming the full scope of approval including notes relating to the superscript references in the above table, may be viewed online by clicking on the product name in the associated entry on www.RedBookLive.com

---

SMS (Novar Systems Ltd)

Building 5, Carlton Park, King Edward Avenue, Narborough, Leicester LE19 0AL, United Kingdom
Tel: +44 (0)116 246 2100 • Fax: +44 (0)116 246 2016
Website: www.smsfire.co.uk

Certificate No: 042bk to EN 54-3:2014 + A1:2019
Certificate No: 042bj to EN 54-3:2014 + A1:2019 and EN 54-17: 2005

S3-DB-R Deep Base - Red
S3-SB-R Shallow Base - Red
S3-DB-W S Cubed Deep Base - White
S3-SB-W S Cubed Shallow Base - White

Certificate No: 567bb-(cl-1) to EN 54-23:2010, EN 54-17:2005 & EN 54-18:2005

Visual Warning Devices

Certificated Products		**LPCB Ref. No.**
S4M-VAD-LPR	S4 Low Power Type A Red VAD (S4-700, S4-700-34K and S4 FLUSH) Notes: 1. The Ceiling mounted VAD meets the requirements of EN 54-23 for the following: - Category rating C-3-10 - Synchronization - Flash rate 0.5Hz - Red LED - Clear lens	567bb/01

Products Extras

S4-700 Standard Base
S4 FLUSH Semi-flush fixing kit
S4-700-34K Fusion Adaptor base

A copy of the certificate, confirming the full scope of approval including notes relating to the superscript references in the above table, may be viewed online by clicking on the product name in the associated entry on www.RedBookLive.com

Certificate No: 567z-(cl-1) to EN 54-3:2014 + A1:2019 & EN 54-17:2005

Audible Warning Devices

Certificated Products		**LPCB Ref. No.**
SEN-S-EP-R	Sentri Type A Red Body Sounder with Short Circuit Isolator (Back Box) Note: 1. Meets the requirements of EN 54-3 at the following sounder tone settings: 1. Intermittent tone 970Hz @ 1Hz 2. Alternating tone 730/970Hz @ 2Hz 3. Continuous tone 970Hz	567z/06
SEN-S-R	Sentri Type A Red Body Sounder with Short Circuit Isolator (S3-DB-R and S3-SB-R Bases) Note: 1. Meets the requirements of EN 54-3 at the following sounder tone settings: 1. Intermittent tone 970Hz @ 1Hz 2. Alternating tone 730/970Hz @ 2Hz 3. Continuous tone 970Hz	567z/01
SEN-S-W	Sentri Type A White Body Sounder with Short Circuit Isolator (S3-DB-W and S3-SB-W Bases) Note: 1. Meets the requirements of EN 54-3 at the following sounder tone settings: 1. Intermittent tone 970Hz @ 1Hz 2. Alternating tone 730/970Hz @ 2Hz 3. Continuous tone 970Hz	567z/03

S3-DB-R Deep Base - Red
S3-SB-R Shallow Base - Red
S3-DB-W S Cubed Deep Base - White
S3-SB-W S Cubed Shallow Base - White

A copy of the certificate, confirming the full scope of approval including notes relating to the superscript references in the above table, may be viewed online by clicking on the product name in the associated entry on www.RedBookLive.com

Certificate No: 567ah-(cl-1) to EN 54-17: 2005 & EN 54-23: 2010

Audible Warning Devices

Certificated Products		**LPCB Ref. No.**
SEN-VAD-HPR-R	Sentri Type A Red High Performance VAD Red Body with Short Circuit Isolator (S3-DB-R and S3-SB-R Bases) Notes: 1. Meets the requirements of EN 54-23 at the following power settings: - Low red output - Medium red output - High red output 2. The wall mounted Visual Alarm Device (VAD) meets the requirements of EN 54-23 for the following light pattern details: - High Performance setting - (Category W: W-6.7-14)	567ah/01

Certificated Products		LPCB Ref. No.
	- Medium Performance setting - (Category W: W-6.5-12.5) - Low Performance setting - (Category W: W-5-9.5) - Synchronization - Flash rate 2 seconds (0.5Hz)	
SEN-VAD-HPW-R	Sentri Type A White High Performance VAD Red Body with Short Circuit Isolator (S3-DB-R and S3-SB-R Bases) Notes: 1. Meets the requirements of EN 54-23 at the following power settings: - Low white output - Medium white output - High white output 2. The wall mounted Visual Alarm Device (VAD) meets the requirements of EN 54-23 for the following light pattern details: - High Performance setting - (Category W: W-5-12.5) - Medium Performance setting - (Category W: W-4.5-11.3) - Low Performance setting - (Category W: W-3-8.5) - Synchronization - Flash rate 2 seconds (0.5Hz)	567ah/02

S3-DB-R Deep Base - Red
S3-SB-R Shallow Base - Red
S3-DB-W S Cubed Deep Base - White
S3-SB-W S Cubed Shallow Base - White

A copy of the certificate, confirming the full scope of approval including notes relating to the superscript references in the above table, may be viewed online by clicking on the product name in the associated entry on www.RedBookLive.com

Certificate No: 567ag-(cl-1) to EN 54-3:2014 + A1:2019, EN 54-17: 2005 & EN 54-23: 2010

Audible Warning Devices

Certificated Products		LPCB Ref. No.
SEN-S-VAD-HPR-R	Sentri Type A Red High Performance VAD Red Body Sounder with Short Circuit Isolator (S3-DB-R and S3-SB-R Bases) Notes: 1. Meets the requirements of EN 54-3 at the following sounder tone settings: 1. Intermittent tone 970Hz @ 1Hz 2. Alternating tone 730/970Hz @ 2Hz 3. Continuous tone 970Hz 2. Meets the requirements of EN 54-23 at the following power settings: - Low red output - Medium red output - High red output 3. The wall mounted Visual Alarm Device (VAD) meets the requirements of EN 54-23 for the following light pattern details: - High Performance setting - (Category W: W-6.7-14) - Medium Performance setting - (Category W: W-6.5-12.5) - Low Performance setting - (Category W: W-5-9.5) - Synchronization - Flash rate 2 seconds (0.5Hz)	567ag/01
SEN-S-VAD-HPW-R	Sentri Type A White High Performance VAD Red Body Sounder with Short Circuit Isolator (S3-DB-R and S3-SB-R Bases) Notes: 1. Meets the requirements of EN 54-3 at the following sounder tone settings: 1. Intermittent tone 970Hz @ 1Hz 2. Alternating tone 730/970Hz @ 2Hz 3. Continuous tone 970Hz 2. Meets the requirements of EN 54-23 at the following power settings: - Low white output - Medium white output - High white output 3. The wall mounted Visual Alarm Device (VAD) meets the requirements of EN 54-23 for the following light pattern details: - High Performance setting - (Category W: W-5-12.5) - Medium Performance setting - (Category W: W-4.5-11.3) - Low Performance setting - (Category W: W-3-8.5) - Synchronization - Flash rate 2 seconds (0.5Hz)	567ag/04
SEN-S-VAD-LPR-R	Sentri Type A Red Standard Performance VAD Red Body Sounder with Short Circuit Isolator (S3-DB-R and S3-SB-R Bases)	567ag/19

Certificated Products		LPCB Ref. No.
	Notes: 1. Meets the requirements of EN 54-3 at the following sounder tone settings: 1. Intermittent tone 970Hz @ 1Hz 2. Alternating tone 730/970Hz @ 2Hz 3. Continuous tone 970Hz 2. The wall mounted Visual Alarm Device (VAD) meets the requirements of EN 54-23 for the following light pattern details: - Low Performance setting - (Category W: W-3-8.5) - Synchronization - Flash rate 2 seconds (0.5Hz)	
SEN-S-VAD-LPW-R	Sentri Type A White Standard Performance VAD Red Body Sounder with Short Circuit Isolator (S3-DB-R and S3-SB-R Bases) Notes: 1. Meets the requirements of EN 54-3 at the following sounder tone settings: 1. Intermittent tone 970Hz @ 1Hz 2. Alternating tone 730/970Hz @ 2Hz 3. Continuous tone 970Hz 2. The wall mounted Visual Alarm Device (VAD) meets the requirements of EN 54-23 for the following light pattern details: - Low Performance setting - (Category W: W-3-8.5) - Synchronization - Flash rate 2 seconds (0.5Hz)	567ag/20
SEN-S-VAD-HPR-EP-R	Sentri Type A Red High Performance VAD Red Body Sounder with Short Circuit Isolator (Back Box) Notes: 1. Meets the requirements of EN 54-3 at the following sounder tone settings: 1. Intermittent tone 970Hz @ 1Hz 2. Alternating tone 730/970Hz @ 2Hz 3. Continuous tone 970Hz 2. Meets the requirements of EN 54-23 at the following power settings: - Low red output - Medium red output - High red output 3. The wall mounted Visual Alarm Device (VAD) meets the requirements of EN 54-23 for the following light pattern details: - High Performance setting - (Category W: W-6.7-14) - Medium Performance setting - (Category W: W-6.5-12.5) - Low Performance setting - (Category W: W-5-9.5) - Synchronization - Flash rate 2 seconds (0.5Hz)	567ag/02
SEN-S-VAD-HPW-EP-R	Sentri Type A White High Performance VAD Red Body Sounder with Short Circuit Isolator (Back Box) Notes: 1. Meets the requirements of EN 54-3 at the following sounder tone settings: 1. Intermittent tone 970Hz @ 1Hz 2. Alternating tone 730/970Hz @ 2Hz 3. Continuous tone 970Hz 2. Meets the requirements of EN 54-23 at the following power settings: - Low white output - Medium white output - High white output 3. The wall mounted Visual Alarm Device (VAD) meets the requirements of EN 54-23 for the following light pattern details: - High Performance setting - (Category W: W-5-12.5) - Medium Performance setting - (Category W: W-4.5-11.3) - Low Performance setting - (Category W: W-3-8.5) - Synchronization - Flash rate 2 seconds (0.5Hz)	567ag/18

S3-DB-R Deep Base - Red
S3-SB-R Shallow Base - Red
S3-DB-W S Cubed Deep Base - White
S3-SB-W S Cubed Shallow Base - White
A copy of the certificate, confirming the full scope of approval including notes relating to the superscript references in the above table, may be viewed online by clicking on the product name in the associated entry on www.RedBookLive.com

Syncoln Ltd

3rd Floor, 14 Hanover Street, Mayfair, London W1S 1YH, United Kingdom
Tel: +44 (0)207 514 5813
E-mail: sales@syncoln.com • Website: www.syncoln.com

Certificate No: 010ak-(cl-5) to EN 54-3:2001 +A1:2002 +A2:2006

Alarm Warning Devices

Certificated Products		LPCB Ref. No.
5000-902	Syncoln Intelligent Open-Area Sounder (Red) (45681-518SHA base) *Note:* *1. Meets the requirements of EN 54-3:2001 at the following tones:* *- Apollo standard-840Hz,0.5s/558Hz,0.5s* *- Dutch (slow whoop)- 500-1200Hz in 3.5s, 0.5s off* *- German DIN-1200-500Hz over 1s*	010ak/01
5000-903	Syncoln Intelligent Open-Area Sounder Visual Indicator (Red) (45681-518SHA base) *Notes:* *1. Meets the requirements of EN 54-3:2001 at the following tones:* *- Apollo standard-840Hz,0.5s/558Hz,0.5s* *- Dutch (slow whoop)- 500-1200Hz in 3.5s, 0.5s off* *- German DIN-1200-500Hz over 1s* *- The Beacon function is not approved to EN 54-23*	010ak/03

Bases

PSO-0001	
PSO-0003	
45681-518SHA	Deep Isolating Base (Red)

A copy of the certificate, confirming the full scope of approval including notes relating to the superscript references in the above table, may be viewed online by clicking on the product name in the associated entry on www.RedBookLive.com

Tanda (UK) Limited

Fourth Floor, 30-31 Furnival Street, London EC4A 1JQ, United Kingdom
Tel: +44 8451162945
E-mail: info@tandauk.com • Website: www.tandauk.com

Certificate No: 1330d-(cl-1) to EN 54-3:2014 + A1:2019

Certificated Products		LPCB Ref. No.
TX7300	Addressable Sounder Strobe (TX7300 base) Notes: 1. Approved to Type A Indoor use only. 2. Meets the requirements of EN 54-3 at the following tones: Tone 14, 2400 Hz - 2900 Hz @ 3Hz Tone 16, 500Hz - 1200Hz, 3.75s on/0.25s off Tone 17, 800Hz, 1s off/1s on 3. The strobe function is not approved to EN 54-23	1330d/01
TX7302	Addressable Sounder Base *Notes:* *1. Approved to Type A Indoor use only.* *2. Meets the requirements of EN 54-3 at the following tones:* *Tone 14, 2400 Hz - 2900 Hz @ 3Hz* *Tone 16, 500Hz - 1200Hz, 3.75s on/0.25s off* *Tone 17, 800Hz, 1s off/1s on* *3. The strobe function is not approved to EN 54-23*	1330d/02

Base

TX7300 Sounder Base
A copy of the certificate, confirming the full scope of approval including notes relating to the superscript references in the above table, may be viewed online by clicking on the product name in the associated entry on www.RedBookLive.com

---

Tanda Development Pte Ltd

21 Bukit Batok Crescent, #15-75 Wcega Tower, Singapore 658065, Singapore
Tel: +86013223307015
E-mail: Wanyuemin@tandatech.com • Website: www.tnafirealarm.com

Certificate No: 1330d-(cl-4) to EN 54-3: 2014 + A1:2019

Certificated Products		LPCB Ref. No.
TX7300	Addressable Sounder Strobe (TX7300 base) *Notes:* *1. Approved to Type A Indoor use only.* *2. Meets the requirements of EN 54-3:2001 at the following tones:* • *Tone 14, 2400 Hz - 2900 Hz @ 3Hz* • *Tone 16, 500Hz - 1200Hz, 3.5s on/0.25s off* • *Tone 17, 800Hz, 1s off/1s on* *3. The strobe function is not approved to EN 54-23*	1330d/01
TX7302	Addressable Sounder Base *Notes:* *1. Approved to Type A Indoor use only.* *2. Meets the requirements of EN 54-3 at the following tones:* • *Tone 14, 2400 Hz - 2900 Hz @ 3Hz* • *Tone 16, 500Hz - 1200Hz, 3.75s on/0.25s off* • *Tone 17, 800Hz, 1s off/1s on* *The strobe function is not approved to EN 54-23*	1330d/02

Base
TX7300
A copy of the certificate, confirming the full scope of approval including notes relating to the superscript references in the above table, may be viewed online by clicking on the product name in the associated entry on www.RedBookLive.com

---

Tecnoalarm S.r.l.

Via Ciriè 38, San Mauro Torinese, Turin 10099, Italy
Tel: +39011 22 35 410 • Fax: +39011 27 35 590
E-mail: info@tecnofiredetection.com • Website: www.tecnofiredetection.com

Certificate No: 1519e to EN 54-3:2001 + A1: 2002+ A2: 2006, EN 54-17: 2005

Certificated Products		LPCB Ref. No.
TFIS01-L	Addressable Internal Siren with Short Circuit Isolator (TFBase01- Base) *Notes:* *1. Meets the requirements of EN 54-3 at the following tones:* *1) Technofire alarm (sweep up) - 353Hz to 1950Hz in 1000ms + 50ms off* *2) Technofire technical alarm (sweep up) - 445Hz to 590Hz in 1000ms + 50ms off* *3) Technofire failure (sweep up/down) - 445Hz to 1000Hz in 1000ms + 1000Hz to 700Hz in 1000ms + 50ms off* *4) Technofire prealarm (4 tone pulses) - 100ms @ 1050Hz + 50ms off + 200ms @ 1300Hz + 50ms off +100ms @ 1600Hz + 50ms off + 200ms @ 1900Hz + 50ms off* *5) AFNOR French alarm tone - 400ms @ 440Hz + 100ms @ 554Hz* *8) AFNOR French alarm tone - 500ms @ 500Hz + 500ms @ 1200Hz* *10) - 250ms @ 628Hz + 250ms @ 925Hz* *13) - 500ms @ 800Hz + 500ms @ 970Hz* *15) Telecom alternate tone - 250ms @ 800Hz + 250ms @ 970Hz*	1519e/02

Certificated Products		LPCB Ref. No.
	18) - 250ms @ 2400Hz + 250ms @ 2850Hz *22) Swedish alarm tone -150ms @ 660Hz + 150ms off* *27) Intermittent tone - 250ms @ 925Hz + 1s off* *28) Intermittent tone - 250ms @ 970Hz + 1s off* *30) - 3 x (500ms @ 950Hz + 500ms off) + 1500ms off* *31) Intermittent tone - 1sec @ 970Hz + 1s to off* *33) HF & BS 5893 Pt1 backup alarm - 500ms @ 2850Hz + 500ms off* *34) - 3 x (500mz @ 2850Hz + 500ms off) + 1500ms off* *36) US temporal tone 3 - 610Hz continuous* *38) End alarm or Swedish alarm tone - 660Hz continuous* *41) British alarm tone - 970Hz continuous* *43) US temporal tone 3 - 2850Hz continuous* *45) Sweep - 300Hz to 1200Hz in 1000ms + 0ms off* *46) Sweep - 3 x (300Hz to 1200Hz in 500ms + 500ms off) + 1500ms off* *47) Sweep - 3 x (400Hz to 1200Hz in 500ms + 500ms off) + 1500ms off* *48) Sweep - 400Hz to 1200Hz in 3000ms + 500ms off* *50) Netherland NEN 2575 slow evacuation swap - 500Hz to 1200Hz in 3.5sec + 500ms off* *51) Netherland NEN 2575 slow evacuation swap -500Hz to 1200Hz in 3.76sec + 250ms off* *52) BS 5839 Pt1 LF buzzer - 800Hz to 970Hz in 20ms + 0ms off* *53) BS 5839 Pt1 fast sweep - 800Hz to 970Hz in 140ms + 0ms off (7Hz)* *55) 800Hz to 970Hz in 330ms + 0ms off (3Hz)* *57) BS 5839 Pt1 medium sweep - 800Hz to 970Hz in 1000ms + 0ms off* *59) DIN & PFEER evacuation tone -1200Hz to 500Hz in 1000ms + 10ms off* *62) VdS fast sweep or Australian alarm tone - 2400Hz to 2850Hz in 140ms + 0ms off (7Hz)*	

Base
TFBase01

A copy of the certificate, confirming the full scope of approval including notes relating to the superscript references in the above table, may be viewed online by clicking on the product name in the associated entry on www.RedBookLive.com

Certificate No: 1519f to EN 54-3:2001+A1:2002+A2:2006

Certificated Products		LPCB Ref. No.
TFBase-Sounder-L	Addressable Type A (Indoor) Sounder Base Notes: 1. Meets the requirements of EN 54-3 at the following tones: I. Tecnofire alarm (sweep up) Sweep (353Hz-1950Hz) in 1000ms + OFF x 50ms II. Tecnofire technical alarm (sweep up) – Sweep (445Hz-90Hz) in 1000ms + OFF x 50ms III. Tecnofire failure (sweep up/down) - Sweep (445Hz-1000Hz) in 1000ms + (1000Hz…700Hz) in 1000ms OFF x 50ms IV. Tecnofire prealarm (4 tone pulse) – ON 1050Hz x 100ms + OFF x 50ms + ON 1300Hz x 200ms + OFF x 50ms + ON 1600Hz x 100ms + OFF x 50ms + ON 1900Hz x 200ms + OFF x 50ms V. AFNOR French alarm tone – ON 440Hz x 400ms + ON 554Hz x 100ms VI. British Standard - ON 800Hz x 500ms + ON 970Hz x 100ms VII. Netherland evacuation tone – ON (500Hz-200Hz) in 3.5s + OFF x 500ms VIII. British alarm tone – 970Hz continuous	1519f/01

A copy of the certificate, confirming the full scope of approval including notes relating to the superscript references in the above table, may be viewed online by clicking on the product name in the associated entry on www.RedBookLive.com

Teletek Electronics JSC

14A Srebarna Street, Sofia 1407, Bulgaria
Tel: +359 2 9694 700 • Fax: +359 2 9625 213
E-mail: info@teletek-electronics.bg • Website: www.teletek-electronics.com

Certificate No: 1139e to EN 54-3:2014 + A1:2019, EN 54-17:2005

Certificated Products		LPCB Ref. No.
SensoIRIS WSOU IS-R	Intelligent Analogue Addressable Fire Alarm Type A Indoor Sounder with built-in Short Circuit Isolator Module *Notes:* *1. Approved to Type A Indoor only.* *2. Meets the requirements of EN 54-3 and approved at the following tone:* *- Tone 27, 2400Hz - 2900Hz @ 3Hz high volume only*	1139e/01
SensoIRIS BSOU IS	Intelligent Analogue Addressable Fire Alarm Type A Base Sounder with built-in Short Circuit Isolator Module *Notes:* *1. Approved to Type A Indoor only.* *2. Meets the requirements of EN 54-3 and approved at the following tone:* *- Tone 27, 2400Hz - 2900Hz @ 3Hz high volume only*	1139e/02
SensoIRIS BSST IS	Intelligent Analogue Addressable Fire Alarm Type A Base Sounder Strobe/Flash with built-in Short Circuit Isolator Module *Notes:* *1. Approved to Type A Indoor only.* *2. Meets the requirements of EN 54-3 and approved at the following tone:* *- Tone 27, 2400Hz - 2900Hz @ 3Hz high volume only*	1139e/03
Expera BSi	Intelligent Analogue Addressable Fire Alarm Type A Base Sounder with built-in Short Circuit Isolator Module *Notes:* *1. Approved to Type A Indoor only* *2. Meets the requirements of EN 54-3 and approved at the following tone:* *Tone 27, 2400Hz - 2900Hz @ 3Hz high volume only*	1139e/04

A copy of the certificate, confirming the full scope of approval including notes relating to the superscript references in the above table, may be viewed online by clicking on the product name in the associated entry on www.RedBookLive.com

Certificate No: 1139d to EN 54-3:2014 + A1:2019, EN 54-17:2005, EN 54-23:2010

Certificated Products		LPCB Ref. No.
SensoIRIS WSST IS	Intelligent Analogue Addressable Fire Alarm Type A Indoor Wall Sounder and Strobe with built-in Short Circuit Isolator Module Note: 1. Approved to Type A Indoor only. 2. Meets the requirements of EN 54-3 and approved at the following tone: Tone 27, 2400Hz – 2900Hz @ 3Hz high volume only Meets the requirements of EN 54-23 and approved as Open Class Category	1139d/01

A copy of the certificate, confirming the full scope of approval including notes relating to the superscript references in the above table, may be viewed online by clicking on the product name in the associated entry on www.RedBookLive.com

Texecom Ltd

Bradwood Court, St Crispin Way, Haslingden, Lancashire BB4 4PW, United Kingdom
Tel: +44 (0)1706 220460 • Fax: +44 (0)1706 230692
E-mail: sales@texe.com • Website: http://www.texe.com

Certificate No: 717a to EN 54-3:2014 + A1:2019

Audible Warning Devices

Certificated Products		LPCB Ref. No.
PSS-0068	Conventional Sounder with LED Strobe (Red Head / Red Base) (PSO-0001, PSO-0006, PSO-0003 & PSO-0007 bases) *Notes:* *1. The above sounder is Type A when used the with the shallow base & Type B when used with the deep base only* *2. Meets the requirements of EN 54-3 at tones 1,2,3,6,7 & 13*	717a/01
PSS-0079	Conventional Sounder with LED Strobe (Red Head / White Base) PSO-0003 & PSO-0007 bases) *Notes:* *1. The above sounder is Type A when used the with the shallow base & Type B when used with the deep base only* *2. Meets the requirements of EN 54-3 at tones 1,2,3,6,7 & 13*	717a/02
PSS-0073	Conventional Sounder with LED Strobe (Amber Head / Red Base) PSO-0003 & PSO-0007 bases) *Notes:* *1. The above sounder is Type A when used the with the shallow base & Type B when used with the deep base only* *2. Meets the requirements of EN 54-3 at tones 1,2,3,6,7 & 13*	717a/03
PSS-0080	Conventional Sounder with LED Strobe (Amber Head / White Base) (PSO-0001, PSO-0006, PSO-0003 & PSO-0007 bases) *Notes:* *1. The above sounder is Type A when used the with the shallow base & Type B when used with the deep base only* *2. Meets the requirements of EN 54-3 at tones 1,2,3,6,7 & 13*	717a/04
PSS-0084	Sonos DC Sounder Wide Voltage (Red) (PSO-0001, PSO-0006, PSO-0003 & PSO-0007 bases) *Notes:* *1. The above sounder is Type A when used the with the shallow base & Type B when used with the deep base only* *2. Meets the requirements of EN 54-3 at tones 1,2,3,6,7 & 13*	717a/05
PSS-0089	Sonos DC Sounder Wide Voltage (White) (PSO-0001, PSO-0006, PSO-0003 & PSO-0007 bases) *Notes:* *1. The above sounder is Type A when used the with the shallow base & Type B when used with the deep base only* *2. Meets the requirements of EN 54-3 at tones 1,2,3,6,7 & 13*	717a/06
PSC-0045	Conventional Sounder with LED Strobe Common Operation (Red Head / Red Base) (PSO-0001, PSO-0006, PSO-0003 & PSO-0007 bases) *Notes:* *1. The above sounder is Type A when used the with the shallow base & Type B when used with the deep base only* *2. Meets the requirements of EN 54-3 at tones 1,2,3,6,7 & 13*	717a/10
PSC-0054	Conventional Sounder with LED Strobe Common Operation (Amber Head / Red Base) (PSO-0001, PSO-0006, PSO-0003 & PSO-0007 bases) *Notes:* *1. The above sounder is Type A when used the with the shallow base & Type B when used with the deep base only* *2. Meets the requirements of EN 54-3 at tones 1,2,3,6,7 & 13*	717a/12
PSC-0055	Conventional Sounder with Red LED Strobe (Clear Lens / White Base) (PSO-0001, PSO-0006, PSO-0003 & PSO-0007 bases) *Notes:* *1. The above sounder is Type A when used the with the shallow base & Type B when used with the deep base only* *2. Meets the requirements of EN 54-3 at tones 1,2,3,6,7 & 13*	717a/13
PSC-0063	Conventional Sounder with LED Strobe Common Operation (Amber Head / White Base) (PSO-0001, PSO-0006, PSO-0003 & PSO-0007 bases) *Notes:* *1. The above sounder is Type A when used the with the shallow base & Type B when used with the deep base only*	717a/17

Certificated Products		LPCB Ref. No.
	2. Meets the requirements of EN 54-3 at tones 1,2,3,6,7 & 13	

Bases:

PSO-0001	Shallow base (red)
PSO-0006	Shallow base (white)
PSO-0003	Deep base (red)
PSO-0007	Deep base (white)
PSO-0001 / 18-185856-2	Red shallow base
PSO-0017 / HSG6918	Red deep base
PSO-0006 / 18-186049-2	White shallow base
PSO-0018 / HSG6917	White deep base
PSO-0022	Sonos Grey Shallow Base
HSG6890SA	Time Saver Base

A copy of the certificate, confirming the full scope of approval including notes relating to the superscript references in the above table, may be viewed online by clicking on the product name in the associated entry on www.RedBookLive.com

Certificate No: 717d to EN 54-23: 2010 & EN 54-3:2014 + A1:2019

Visual & Audible Warning Devices

Certificated Products		LPCB Ref. No.
ESCA3000R	Conventional Type A sounder and ceiling mounted white light LED visual alarm device (red head / red base) - (PSO-0001 / 18- 185856-2, PSO-0017 / HSG6918 bases) Notes:1. The sounder meets the requirements of EN 54-3 at tones 1, 2, 3, 6, 7 & 13 2. The ceiling mounted VAD meets the requirements of EN 54-23:2010 for the following:- Category C-3-15 - Flash rates 0.5Hz and 1Hz - Synchronization	717d/01
ESCA3000W	Conventional Type A sounder and ceiling mounted white light LED visual alarm device (white head / white base) - (PSO-0006 / 18-186049-2, PSO-0018 / HSG6917 bases) Notes:1. The sounder meets the requirements of EN 54-3 at tones 1, 2, 3, 6, 7 & 13 2. The ceiling mounted VAD meets the requirements of EN 54-23:2010 for the following: - Category C-3-15- Flash rates 0.5Hz and 1Hz- Synchronization	717d/02
ESCA4000R	Conventional Type A sounder and wall mounted white light LED visual alarm device (red head / red base) - (PSO-0001 / 18-185856-2, PSO-0017 / HSG6918 bases) Notes:1. The sounder meets the requirements of EN 54-3 at tones 1, 2, 3, 6, 7 & 13 2. The wall mounted VAD meets the requirements of EN 54-23:2010 for the following: - Category W-3.1-11.3- Flash rates 0.5Hz and 1Hz- Synchronization	717d/03
ESCA4000W	Conventional Type A sounder and wall mounted white light LED visual alarm device (white head / white base) - (PSO-0006 / 18-186049-2, PSO-0018 / HSG6917 bases) Notes: 1. The sounder meets the requirements of EN 54-3 at tones 1, 2, 3, 6, 7 & 13 2. The wall mounted VAD meets the requirements of EN 54-23:2010 for the following: - Category W-3.1-11.3- Flash rates 0.5Hz and 1Hz- Synchronization	717d/04
ESFA2000R	Conventional Type A Sounder and Ceiling Mounted Red Light LED Visual Alarm Device (Red Head / Red Base) - (PSO-0001 / 18- 185856-2, PSO-0017 / HSG6918 Bases) Notes:1. The sounder meets the requirements of EN 54-3 at the following tones:- 1) 970Hz continuous, 2) 800Hz/970Hz @ 2Hz, 3) 800Hz - 970Hz @ 1Hz, 6) 554Hz, 0.1s/ 440Hz, 0.4s, 7) 500 - 1200Hz, 3.5s/ 0.5s OFF 13) 1200Hz - 500Hz @ 1Hz 2. The ceiling mounted VAD meets the requirements of EN 54-23: 2010 for the following:- - Category C-3-8.9 - Flash rates 0.5Hz and 1Hz - Synchronization	717d/05
ESFA2000W	Conventional Type A Sounder and Ceiling Mounted Red Light LED Visual Alarm Device (White Head / White Base) - (PSO-0006 / 18-186049-2, PSO-0018 / HSG6917 Bases) Notes: 1. The sounder meets the requirements of EN 54-3 at the following tones:- 1) 970Hz continuous, 2) 800Hz/970Hz @ 2Hz, 3) 800Hz - 970Hz @ 1Hz,	717d/06

Certificated Products		LPCB Ref. No.
	6) 554Hz, 0.1s/ 440Hz, 0.4s, 7) 500 - 1200Hz, 3.5s/ 0.5s OFF 13) 1200Hz - 500Hz @ 1Hz2. The ceiling mounted VAD meets the requirements of EN 54-23:2010 for the following:- - Category C-3-8.9 - Flash rates 0.5Hz and 1Hz - Synchronization	
ESFA1000R	Conventional Type A Sounder and Wall Mounted Red Light LED Visual Alarm Device (Red Head / Red Base) - (PSO-0001 / 18-185856-2, PSO-0017 / HSG6918 Bases) Notes:1. The sounder meets the requirements of EN 54-3 at the following tones:- 1) 970Hz continuous, 2) 800Hz/970Hz @ 2Hz, 3) 800Hz - 970Hz @ 1Hz, 6) 554Hz, 0.1s/ 440Hz, 0.4s, 7) 500 - 1200Hz, 3.5s/ 0.5s OFF 13) 1200Hz - 500Hz @ 1Hz2. The wall mounted VAD meets the requirements of EN 54-23:2010 for the following:- - Category W-2.4-7.5 - Flash rates 0.5Hz and 1Hz - Synchronization	717d/07
ESFA1000W	Conventional Type A sounder and wall mounted red light LED visual alarm device (white head / white base) - (PSO-0006 / 18-186049-2, PSO-0018 / HSG6917 bases) Notes: 1. The sounder meets the requirements of EN 54-3 at the following tones:- 1) 970Hz continuous, 2) 800Hz/970Hz @ 2Hz, 3) 800Hz - 970Hz @ 1Hz, 6) 554Hz, 0.1s/ 440Hz, 0.4s, 7) 500 - 1200Hz, 3.5s/ 0.5s OFF 13) 1200Hz - 500Hz @ 1Hz 2. The wall mounted VAD meets the requirements of EN 54-23:2010 for the following:- - Category W-2.4-7.5 - Flash rates 0.5Hz and 1Hz - Synchronization	717d/08

Bases:

PSO-0001	Shallow base (red)
PSO-0006	Shallow base (white)
PSO-0003	Deep base (red)
PSO-0007	Deep base (white)
PSO-0001 / 18-185856-2	Red shallow base
PSO-0017 / HSG6918	Red deep base
PSO-0006 / 18-186049-2	White shallow base
PSO-0018 / HSG6917	White deep base
PSO-0022	Sonos Grey Shallow Base
HSG6890SA	Time Saver Base

A copy of the certificate, confirming the full scope of approval including notes relating to the superscript references in the above table, may be viewed online by clicking on the product name in the associated entry on www.RedBookLive.com

Certificate No: 717e to EN54-23: 2010

Visual Warning Devices

Certificated Products		LPCB Ref. No.
ESBA3000R	Conventional Type A/B ceiling mounted white light LED visual alarm device (red head / red bases) - (PSO-0001 / 18-185856-2, PSO-0017 / HSG6918 bases) Notes:1. The VAD is Type A when used with the shallow base & Type B with the deep base. 2. The ceiling mounted VAD meets the requirements of EN 54-23:2010 for the following:- Category C-3-15- Flash rates 0.5Hz and 1Hz- Synchronization	717e/01
ESBA3000W	Conventional Type A/B ceiling mounted white light LED visual alarm device (white head / white bases) - (PSO-0006 / 18-186049-2, PSO-0018 / HSG6917 bases) Notes:1. The VAD is Type A when used with the shallow base & Type B with the deep base. 2. The ceiling mounted VAD meets the requirements of EN 54-23:2010 for the following:- Category C-3-15- Flash rates 0.5Hz and 1Hz- Synchronization	717e/02
ESBA4000R	Conventional Type A/B wall mounted white light LED visual alarm device (red head / red bases) - (PSO-0001 / 18-185856-2, PSO-0017 / HSG6918 bases) Notes:1. The VAD is Type A when used with the shallow base & Type B with the deep base. 2. The wall mounted VAD meets the requirements of EN 54-23:2010 for the following:-	717e/03

Certificated Products		LPCB Ref. No.
	Category W-3.1-11.3- Flash rates 0.5Hz and 1Hz- Synchronization	
ESBA4000W	Conventional Type A/B wall mounted white light LED visual alarm device (white head / white bases) - (PSO-0006 / 18-186049-2, PSO-0018 / HSG6917 bases) Notes:1. The VAD is Type A when used with the shallow base & Type B with the deep base. 2. The wall mounted VAD meets the requirements of EN 54-23:2010 for the following:- Category W-3.1-11.3 - Flash rates 0.5Hz and 1Hz- Synchronization	717e/04
ESDA2000R	Conventional Type A/B Ceiling Mounted Red Light LED Visual Alarm Device (Red Head / Red Bases) - (PSO-0001 / 18-185856-2, PSO-0017 / HSG6918 Bases) Notes: 1. The VAD is Type A when used with the shallow base & Type B with the deep base.2. The ceiling mounted VAD meets the requirements of EN 54-23:2010 for the following:-- Category C-3-8.9 - Flash rates 0.5Hz and 1Hz- Synchronization	717e/05
ESDA2000W	Conventional Type A/B Ceiling Mounted Red Light LED Visual Alarm Device (White Head / White Bases) - (PSO-0006 / 18-186049-2, PSO-0018 / HSG6917 Bases) Notes: 1. The VAD is Type A when used with the shallow base & Type B with the deep base. 2. The ceiling mounted VAD meets the requirements of EN 54-23: 2010 for the following:- - Category C-3-8.9 - Flash rates 0.5Hz and 1Hz - Synchronization	717e/06
ESDA1000R	Conventional Type A/B Wall Mounted Red Light LED Visual Alarm Device (Red Head / Red Bases) - (PSO-0001 / 18-185856-2, PSO-0017 / HSG6918 Bases) Notes: 1. The VAD is Type A when used with the shallow base & Type B with the deep base.2. The wall mounted VAD meets the requirements of EN 54-23: 2010 for the following:-- Category W-2.4-7.5 - Flash rates 0.5Hz and 1Hz- Synchronization	717e/07
ESDA1000W	Conventional Type A/B Wall Mounted Red Light LED Visual Alarm Device (White Head / White Bases) - (PSO-0006 / 18-186049-2, PSO-0018 / HSG6917 Bases) Notes:1. The VAD is Type A when used with the shallow base & Type B with the deep base.2. The wall mounted VAD meets the requirements of EN 54-23: 2010 for the following:-- Category W-2.4-7.5 - Flash rates 0.5Hz and 1Hz - Synchronization	717e/08

Bases:

PSO-0001	Shallow base (red)
PSO-0006	Shallow base (white)
PSO-0003	Deep base (red)
PSO-0007	Deep base (white)
PSO-0001 / 18-185856-2	Red shallow base
PSO-0017 / HSG6918	Red deep base
PSO-0006 / 18-186049-2	White shallow base
PSO-0018 / HSG6917	White deep base
PSO-0022	Sonos Grey Shallow Base
HSG6890SA	Time Saver Base

A copy of the certificate, confirming the full scope of approval including notes relating to the superscript references in the above table, may be viewed online by clicking on the product name in the associated entry on www.RedBookLive.com

Certificate No: 717p to EN 54-3: 2001 + A1: 2002 + A2: 2006

Audible Warning Devices

Certificated Products		LPCB Ref. No.
TCC-0001	Intrinsically Safe Fire Alarm Sounder Type B (Red) (HSG6890SA base) Note: 1. Meets the requirements of EN 54-3:2001 for the following tones - Tone 1 970Hz Continuous - Tone 2 800Hz/970Hz @ 2Hz - Tone 3 800Hz 970Hz @ 1Hz - Tone 6 554Hz, 0.1s / 440Hz, 0.4s (AFNOR NF S 32 001) - Tone 7 500 1200Hz, 3.5s / 0.5s OFF (NEN 2575:2000 Dutch Slow Whoop) - Tone 13 1200Hz 500Hz @ 1Hz (DIN 33 404)	717p/01
TCC-0007	Intrinsically Safe Fire Alarm Sounder Amber Beacon Type B (Red) (HSG6890SA base) Notes: 1. Meets the requirements of EN 54-3:2001 for the following tones	717p/02

Certificated Products		LPCB Ref. No.
	- Tone 1 970Hz Continuous - Tone 2 800Hz/970Hz @ 2Hz - Tone 3 800Hz 970Hz @ 1Hz - Tone 6 554Hz, 0.1s / 440Hz, 0.4s (AFNOR NF S 32 001) - Tone 7 500 1200Hz, 3.5s / 0.5s OFF (NEN 2575:2000 Dutch Slow Whoop) - Tone 13 1200Hz 500Hz @ 1Hz (DIN 33 404) 2. The beacon function is not included within the scope of this approval.	
TCC-0008	Intrinsically Safe Fire Alarm Sounder Red Beacon Type B (Red) (HSG6890SA base) Notes: 1. Meets the requirements of EN 54-3:2001 for the following tones - Tone 1 970Hz Continuous - Tone 2 800Hz/970Hz @ 2Hz - Tone 3 800Hz 970Hz @ 1Hz - Tone 6 554Hz, 0.1s / 440Hz, 0.4s (AFNOR NF S 32 001) - Tone 7 500 1200Hz, 3.5s / 0.5s OFF (NEN 2575:2000 Dutch Slow Whoop) - Tone 13 1200Hz 500Hz @ 1Hz (DIN 33 404) 2. The beacon function is not included within the scope of this approval.	717p/02
TCC-0009	Intrinsically Safe Fire Alarm Sounder Blue Beacon Type B (Red) (HSG6890SA base) Notes: 1. Meets the requirements of EN 54-3:2001 for the following tones - Tone 1 970Hz Continuous - Tone 2 800Hz/970Hz @ 2Hz - Tone 3 800Hz 970Hz @ 1Hz - Tone 6 554Hz, 0.1s / 440Hz, 0.4s (AFNOR NF S 32 001) - Tone 7 500 1200Hz, 3.5s / 0.5s OFF (NEN 2575:2000 Dutch Slow Whoop) - Tone 13 1200Hz 500Hz @ 1Hz (DIN 33 404) 2. The beacon function is not included within the scope of this approval.	717p/02
TCC-0010	Intrinsically Safe Fire Alarm Sounder Green Beacon Type B (Red) (HSG6890SA base) Notes: 1. Meets the requirements of EN 54-3:2001 for the following tones - Tone 1 970Hz Continuous - Tone 2 800Hz/970Hz @ 2Hz - Tone 3 800Hz 970Hz @ 1Hz - Tone 6 554Hz, 0.1s / 440Hz, 0.4s (AFNOR NF S 32 001) - Tone 7 500 1200Hz, 3.5s / 0.5s OFF (NEN 2575:2000 Dutch Slow Whoop) - Tone 13 1200Hz 500Hz @ 1Hz (DIN 33 404) 2. The beacon function is not included within the scope of this approval.	717p/02
TCC-0011	Intrinsically Safe Fire Alarm Sounder White Beacon Type B (Red) (HSG6890SA base) Notes: 1. Meets the requirements of EN 54-3:2001 for the following tones - Tone 1 970Hz Continuous - Tone 2 800Hz/970Hz @ 2Hz - Tone 3 800Hz 970Hz @ 1Hz - Tone 6 554Hz, 0.1s / 440Hz, 0.4s (AFNOR NF S 32 001) - Tone 7 500 1200Hz, 3.5s / 0.5s OFF (NEN 2575:2000 Dutch Slow Whoop) - Tone 13 1200Hz 500Hz @ 1Hz (DIN 33 404) 2. The beacon function is not included within the scope of this approval.	717p/02

HSG6890SA Time Saver Base

A copy of the certificate, confirming the full scope of approval including notes relating to the superscript references in the above table, may be viewed online by clicking on the product name in the associated entry on www.RedBookLive.com

---

Tianjin VSAIL Intelligent Fire Technology Co Ltd

No 401, Building 6, No 1 Xinxing Road, Wuqing Development Zone, Tianjin, PRC 301700, China
Tel: +8613911191759
E-mail: ERICHENX@VSAIL.COM.CN

Certificate No: 1174c to EN 54-3:2014 + A1:2019

Certificated Products		LPCB Ref. No.
VC-6734	Conventional Type A Sounder Strobe (VB-6711 Base) Notes: 1. Meets the requirements of EN 54-3 and approved at the following tones: 1) Tone 01, 2400Hz - 2900Hz @ 3 Hz 2) Tone 10, 500Hz - 1200Hz x 3, 3.5s on / 0.5s off 2. The strobe function is not included within the scope of this approval	1174c/01

Certificated Products		LPCB Ref. No.
VI-6737	Digital Type A Indoor Digital Sounder Beacon (VB-6619 Base) Notes: 1. Meets the requirements of EN 54-3 and approved at the following tones: 1) Tone 00, 2400Hz - 2900Hz @ 3Hz 2) Tone 01, 2400Hz - 2900Hz @ 9Hz 3) Tone 08, 500Hz - 1200Hz x 3, 3.5s on / 0.5s off 4) Tone 14, 1500Hz - 2700Hz @ 3Hz 2. The beacon function is not included within the scope of this approval	1174c/02

Bases
VB-6711 Mounting Base
VB-6619 Mounting Base
A copy of the certificate, confirming the full scope of approval including notes relating to the superscript references in the above table, may be viewed online by clicking on the product name in the associated entry on www.RedBookLive.com

---

Tyco Fire & Security GmbH

Victor Von Bruns-Strasse 21, Neuhausen am Rheinfall 8212, Switzerland
Tel: +44 (0)1462 667700 • Fax: +44 (0)1462 667777
E-mail: deepika.sahni@jci.com • Website: www.tycosafetyproducts-europe.com

Certificate No: 378e-(cl-1) to EN 54-3:2001 + A1:2002 + A2:2006, EN 54-17:2005

Certificated Products		LPCB Ref. No.
LPSY865	Symphoni MX Addressable Loop Powered Type B Sounder (Red) with Short Circuit Isolator Note: 1. Meets the requirements of EN 54-3 at the following tones: 1 - Dutch Slow Whoop Sweep 2 - 7Hz Fast Sweep 6 - Temporal 3 (ISO8201) 9 - Continuous 850Hz	378e/03
FC410LPSY	FireClass Addressable Loop Powered Type B Sounder (Red) with Short Circuit Isolator Note: 1. Meets the requirements of EN 54-3 at the following tones: 1 - Dutch Slow Whoop Sweep 2 - 7Hz Fast Sweep 6 - Temporal 3 (ISO8201) 9 - Continuous 850Hz	378e/03
LPAV865	Symphoni MX Addressable Loop Powered Type B Sounder Beacon (Red) with Short Circuit Isolator Notes: 1. Meets the requirements of EN 54-3 at the following tones: 1 - Dutch Slow Whoop Sweep 2 - 7Hz Fast Sweep 6 - Temporal 3 (ISO8201) 9 - Continuous 850Hz 2. The beacon function of this device is not included in the scope of this approval	378e/06
FC410LPAV	FireClass Addressable Loop Powered Type B Sounder Beacon (Red) with Short Circuit Isolator Notes: 1. Meets the requirements of EN 54-3 at the following tones: 1 - Dutch Slow Whoop Sweep 2 - 7Hz Fast Sweep 6 - Temporal 3 (ISO8201) 9 - Continuous 850Hz 2. The beacon function of this device is not included in the scope of this approval	378e/06

Accessories:
B-CAP
A copy of the certificate, confirming the full scope of approval including notes relating to the superscript references in the above table, may be viewed online by clicking on the product name in the associated entry on www.RedBookLive.com

Certificate No: 378k-(cl-1) to EN 54-23:2010, EN 54-3:2014 + A1:2019, EN 54-17:2005

Certificated Products		LPCB Ref. No.
LPBS865 LP	Beacon Symphoni Type B Sounder IP65 with Short Circuit Isolator - Red Housing Notes: 1. The VAD is rated as Open Class (refer to installation guide) 2. The VAD is a Type B device and includes synchronisation. 3. VAD Light Colour - White Flashing Light 4. VAD Flash Rate - Fast flash 1Hz, or slow flash 0.5Hz 5. Meets the requirements of EN 54-3 at the following tones: 1 - Dutch Slow Whoop 500Hz-1200Hz 2 - 7Hz Fast Sweep 800Hz-970Hz 6 - Temporal 3 880Hz 9 - Continuous 850Hz	378k/03
FC410LPBS LP	FireClass Loop Powered Type B Beacon/Sounder (IP65) with Short Circuit Isolator Notes: 1. The VAD is rated as Open Class (refer to installation guide) 2. The VAD is a Type B device and includes synchronisation. 3. VAD Light Colour - White Flashing Light 4. VAD Flash Rate - Fast flash 1Hz, or slow flash 0.5Hz 5. Meets the requirements of EN 54-3 at the following tones: 1 - Dutch Slow Whoop 500Hz-1200Hz 2 - 7Hz Fast Sweep 800Hz-970Hz 6 - Temporal 3 880Hz 9 - Continuous 850 850Hz	378k/07

A copy of the certificate, confirming the full scope of approval including notes relating to the superscript references in the above table, may be viewed online by clicking on the product name in the associated entry on www.RedBookLive.com

Certificate No: 681aw-(cl-1) to EN 54-3:2014 + A1:2019, EN 54-23:2010, EN 54-17:2005

Certificated Products		LPCB Ref. No.
P80AVW	Zettler Addressable Type A Indoor Wall Sounder Beacon VAD with Short Circuit Isolator, White Housing (576.080.007), (S-BOX, A-BOX) Notes: 1. Meets the requirements of EN 54-23 for the following: - Category W-2.4-7.5 (High Beacon Intensity) - Open Class O-1.6-5.1 (Low Beacon Intensity) - Flash rate 0.5Hz and 1Hz - Operating voltage range 20-40 VDC 2. Meets the requirements of EN 54-3 for the following: 1 - Dutch Slow Whoop, Sweep 500-1200Hz 2 - 7Hz Fast Sweep, 800-970Hz 3 - BS 1Hz Sweep, 800-970Hz 4 - 2 Tone, Alternating 660 / 880Hz 5 - Temporal 4, Intermittent 880Hz 6 - Temporal 3 (ISO 8201), Intermittent 880Hz 7 - March Time Beep, Intermittent 880Hz 8 - Continuous 970, 970Hz 9 - Continuous 850, 850Hz 10 - DIN 1Hz Sweep, 1200-500Hz 11 - Banshee LF Buzzer, Sweep 800-950HZ 12 - 3Hz Banshee Fast Sweep, 800-950Hz 13 - 9Hz Banshee Fast Sweep, 800-950Hz 14 - Alternating (NF-S 32.001), Alternating 554 / 440Hz 15 - Yodalarm, Alternating 800 / 1000Hz 16 - Continuous Bell 1450Hz	681aw/01
FC440AVW	FireClass Addressable Type A Indoor Wall Sounder Beacon VAD with Short Circuit Isolator, White Housing (576.440.007) (S-BOX, A-BOX) Notes: 1. Meets the requirements of EN 54-23 for the following: - Category W-2.4-7.5 (High Beacon Intensity) - Open Class O-1.6-5.1 (Low Beacon Intensity) - Flash rate 0.5Hz and 1Hz - Operating voltage range 20-40 VDC 2. Meets the requirements of EN 54-3 for the following: 1 - Dutch Slow Whoop, Sweep 500-1200Hz 2 - 7Hz Fast Sweep, 800-970Hz 3 - BS 1Hz Sweep, 800-970Hz 4 - 2 Tone, Alternating 660 / 880Hz 5 - Temporal 4, Intermittent 880Hz	681aw/01

Certificated Products		LPCB Ref. No.
	6 - Temporal 3 (ISO 8201), Intermittent 880Hz 7 - March Time Beep, Intermittent 880Hz 8 - Continuous 970, 970Hz 9 - Continuous 850, 850Hz 10 - DIN 1Hz Sweep, 1200-500Hz 11 - Banshee LF Buzzer, Sweep 800-950HZ 12 - 3Hz Banshee Fast Sweep, 800-950Hz 13 - 9Hz Banshee Fast Sweep, 800-950Hz 14 - Alternating (NF-S 32.001), Alternating 554 / 440Hz 15 - Yodalarm, Alternating 800 / 1000Hz 16 - Continuous Bell 1450Hz	
P80AVR	Zettler Addressable Type A Indoor Wall Sounder Beacon VAD with Short Circuit Isolator, Red Housing (576.080.008) (S-BOX, A-BOX) Notes: 1. Meets the requirements of EN 54-23 for the following: - Category W-2.4-7.5 (High Beacon Intensity) - Open Class O-1.6-5.1 (Low Beacon Intensity) - Flash rate 0.5Hz and 1Hz - Operating voltage range 20-40 VDC 2. Meets the requirements of EN 54-3 for the following: 1 - Dutch Slow Whoop, Sweep 500-1200Hz 2 - 7Hz Fast Sweep, 800-970Hz 3 - BS 1Hz Sweep, 800-970Hz 4 - 2 Tone, Alternating 660 / 880Hz 5 - Temporal 4, Intermittent 880Hz 6 - Temporal 3 (ISO 8201), Intermittent 880Hz 7 - March Time Beep, Intermittent 880Hz 8 - Continuous 970, 970Hz 9 - Continuous 850, 850Hz 10 - DIN 1Hz Sweep, 1200-500Hz 11 - Banshee LF Buzzer, Sweep 800-950HZ 12 - 3Hz Banshee Fast Sweep, 800-950Hz 13 - 9Hz Banshee Fast Sweep, 800-950Hz 14 - Alternating (NF-S 32.001), Alternating 554 / 440Hz 15 - Yodalarm, Alternating 800 / 1000Hz 16 - Continuous Bell 1450Hz	681aw/02
FC440AVR	FireClass Addressable Type A Indoor Wall Sounder Beacon VAD with Short Circuit Isolator, Red Housing (576.440.008) (S-BOX, A-BOX) Notes: 1. Meets the requirements of EN 54-23 for the following: - Category W-2.4-7.5 (High Beacon Intensity) - Open Class O-1.6-5.1 (Low Beacon Intensity) - Flash rate 0.5Hz and 1Hz - Operating voltage range 20-40 VDC 2. Meets the requirements of EN 54-3 for the following: 1 - Dutch Slow Whoop, Sweep 500-1200Hz 2 - 7Hz Fast Sweep, 800-970Hz 3 - BS 1Hz Sweep, 800-970Hz 4 - 2 Tone, Alternating 660 / 880Hz 5 - Temporal 4, Intermittent 880Hz 6 - Temporal 3 (ISO 8201), Intermittent 880Hz 7 - March Time Beep, Intermittent 880Hz 8 - Continuous 970, 970Hz 9 - Continuous 850, 850Hz 10 - DIN 1Hz Sweep, 1200-500Hz 11 - Banshee LF Buzzer, Sweep 800-950HZ 12 - 3Hz Banshee Fast Sweep, 800-950Hz 13 - 9Hz Banshee Fast Sweep, 800-950Hz 14 - Alternating (NF-S 32.001), Alternating 554 / 440Hz 15 - Yodalarm, Alternating 800 / 1000Hz 16 - Continuous Bell 1450Hz	681aw/02
P85AVR	Zettler Addressable Type B Outdoor Wall Sounder Beacon VAD Weatherproof with Short Circuit Isolator, Red Housing (576.080.009) Notes: 1. Meets the requirements of EN 54-23 for the following: - Category W-2.4-7.5 (High Beacon Intensity) - Open Class O-1.6-5.1 (Low Beacon Intensity) - Flash rate 0.5Hz and 1Hz - Operating voltage range 20-40 VDC	681aw/03

Certificated Products		LPCB Ref. No.
	2. Meets the requirements of EN 54-3 for the following: 1 - Dutch Slow Whoop, Sweep 500-1200Hz 2 - 7Hz Fast Sweep, 800-970Hz 3 - BS 1Hz Sweep, 800-970Hz 4 - 2 Tone, Alternating 660 / 880Hz 5 - Temporal 4, Intermittent 880Hz 6 - Temporal 3 (ISO 8201), Intermittent 880Hz 7 - March Time Beep, Intermittent 880Hz 8 - Continuous 970, 970Hz 9 - Continuous 850, 850Hz 10 - DIN 1Hz Sweep, 1200-500Hz 11 - Banshee LF Buzzer, Sweep 800-950HZ 12 - 3Hz Banshee Fast Sweep, 800-950Hz 13 - 9Hz Banshee Fast Sweep, 800-950Hz 14 - Alternating (NF-S 32.001), Alternating 554 / 440Hz 15 - Yodalarm, Alternating 800 / 1000Hz 16 - Continuous Bell 1450Hz 3. Ingress Protection IP55	
FC445AVR	FireClass Addressable Type B Outdoor Wall Sounder Beacon VAD Weatherproof with Short Circuit Isolator, Red Housing (576.440.009) Notes: 1. Meets the requirements of EN 54-23 for the following: - Category W-2.4-7.5 (High Beacon Intensity) - Open Class O-1.6-5.1 (Low Beacon Intensity) - Flash rate 0.5Hz and 1Hz - Operating voltage range 20-40 VDC 2. Meets the requirements of EN 54-3 for the following: 1 - Dutch Slow Whoop, Sweep 500-1200Hz 2 - 7Hz Fast Sweep, 800-970Hz 3 - BS 1Hz Sweep, 800-970Hz 4 - 2 Tone, Alternating 660 / 880Hz 5 - Temporal 4, Intermittent 880Hz 6 - Temporal 3 (ISO 8201), Intermittent 880Hz 7 - March Time Beep, Intermittent 880Hz 8 - Continuous 970, 970Hz 9 - Continuous 850, 850Hz 10 - DIN 1Hz Sweep, 1200-500Hz 11 - Banshee LF Buzzer, Sweep 800-950HZ 12 - 3Hz Banshee Fast Sweep, 800-950Hz 13 - 9Hz Banshee Fast Sweep, 800-950Hz 14 - Alternating (NF-S 32.001), Alternating 554 / 440Hz 15 - Yodalarm, Alternating 800 / 1000Hz 16 - Continuous Bell 1450Hz 3. Ingress Protection IP55	681aw/03
FC445CAV	FireClass Addressable Type B Outdoor Wall Sounder Beacon VAD BC with Short Circuit Isolator, Red Housing (576.440.017) Notes: 1. Meets the requirements of EN 54-23 for the following: - Open Class O-1.6-5.1 - Flash rate 0.5Hz and 1Hz - Operating voltage range 20-40 VDC 2. Meets the requirements of EN 54-3 for the following: 1 - Dutch Slow Whoop, Sweep 500-1200Hz 2 - 7Hz Fast Sweep, 800-970Hz 3 - BS 1Hz Sweep, 800-970Hz 4 - 2 Tone, Alternating 660 / 880Hz 5 - Temporal 4, Intermittent 880Hz 6 - Temporal 3 (ISO 8201), Intermittent 880Hz 7 - March Time Beep, Intermittent 880Hz 8 - Continuous 970, 970Hz 9 - Continuous 850, 850Hz 10 - DIN 1Hz Sweep, 1200-500Hz 11 - Banshee LF Buzzer, Sweep 800-950HZ 12 - 3Hz Banshee Fast Sweep, 800-950Hz 13 - 9Hz Banshee Fast Sweep, 800-950Hz 14 - Alternating (NF-S 32.001), Alternating 554 / 440Hz 15 - Yodalarm, Alternating 800 / 1000Hz 16 - Continuous Bell 1450Hz	681aw/04

Certificated Products		LPCB Ref. No.
	3. Ingress Protection IP55	
P80AVB	Zettler Addressable Type A Indoor Base Sounder Beacon VAD Standard Power with Short Circuit Isolator, Clear Housing (576.080.006) (B-CAP, A-CON) Notes: 1. Meets the requirements of EN 54-23 for the following: - Category C-3-8 (High Beacon Intensity) - Open Class O-2.1-7.0 (Low Beacon Intensity) - Flash rate 0.5Hz and 1Hz - Operating voltage range 20-40 VDC 2. Meets the requirements of EN 54-3 for the following: 1 - Dutch Slow Whoop, Sweep 500-1200Hz 2 - 7Hz Fast Sweep, 800-970Hz 3 - BS 1Hz Sweep, 800-970Hz 4 - 2 Tone, Alternating 660 / 880Hz 5 - Temporal 4, Intermittent 880Hz 6 - Temporal 3 (ISO 8201), Intermittent 880Hz 7 - March Time Beep, Intermittent 880Hz 8 - Continuous 970, 970Hz 9 - DIN 1Hz Sweep, 1200-500Hz 10 - Banshee LF Buzzer, Sweep 800-950HZ 11 - 3Hz Banshee Fast Sweep, 800-950Hz 12 - 9Hz Banshee Fast Sweep, 800-950Hz 13 - Alternating (NF-S 32.001), Alternating 554 / 440Hz 14 - Yodalarm, Alternating 800 / 1000Hz 15 - Continuous Bell 1450Hz	681aw/05
FC440AVB	FireClass Addressable Type A Indoor Base Sounder Beacon VAD Standard Power with Short Circuit Isolator, Clear Housing (576.440.006) (B-CAP, A-CON) Notes: 1. Meets the requirements of EN 54-23 for the following: - Category C-3-8 (High Beacon Intensity) - Open Class O-2.1-7.0 (Low Beacon Intensity) - Flash rate 0.5Hz and 1Hz - Operating voltage range 20-40 VDC 2. Meets the requirements of EN 54-3 for the following: 1 - Dutch Slow Whoop, Sweep 500-1200Hz 2 - 7Hz Fast Sweep, 800-970Hz 3 - BS 1Hz Sweep, 800-970Hz 4 - 2 Tone, Alternating 660 / 880Hz 5 - Temporal 4, Intermittent 880Hz 6 - Temporal 3 (ISO 8201), Intermittent 880Hz 7 - March Time Beep, Intermittent 880Hz 8 - Continuous 970, 970Hz 9 - DIN 1Hz Sweep, 1200-500Hz 10 - Banshee LF Buzzer, Sweep 800-950HZ 11 - 3Hz Banshee Fast Sweep, 800-950Hz 12 - 9Hz Banshee Fast Sweep, 800-950Hz 13 - Alternating (NF-S 32.001), Alternating 554 / 440Hz 14 - Yodalarm, Alternating 800 / 1000Hz 15 - Continuous Bell 1450Hz	681aw/05
P81AVB	Zettler Addressable Type A Base Sounder Beacon VAD High Power with Short Circuit Isolator, Clear Housing (576.080.014) (B-CAP, A-CON) Notes: 1. Meets the requirements of EN 54-23 for the following: - Category C-3-15 (High Beacon Intensity) - Open Class O-2.7-8.5 (Low Beacon Intensity) - Flash rate 0.5Hz and 1Hz - Operating voltage range 20-40 VDC 2. Meets the requirements of EN 54-3 for the following: 1 - Dutch Slow Whoop, Sweep 500-1200Hz 2 - 7Hz Fast Sweep, 800-970Hz 3 - BS 1Hz Sweep, 800-970Hz 4 - 2 Tone, Alternating 660 / 880Hz 5 - Temporal 4, Intermittent 880Hz 6 - Temporal 3 (ISO 8201), Intermittent 880Hz 7 - March Time Beep, Intermittent 880Hz 8 - Continuous 970, 970Hz 9 - DIN 1Hz Sweep, 1200-500Hz 10 - Banshee LF Buzzer, Sweep 800-950HZ	681aw/06

Certificated Products		LPCB Ref. No.
	11 - 3Hz Banshee Fast Sweep, 800-950Hz 12 - 9Hz Banshee Fast Sweep, 800-950Hz 13 - Alternating (NF-S 32.001), Alternating 554 / 440Hz 14 - Yodalarm, Alternating 800 / 1000Hz 15 - Continuous Bell 1450Hz	
FC441AVB	FireClass Addressable Type A Base Sounder Beacon VAD High Power with Short Circuit Isolator, Clear Housing (576.440.014) (B-CAP, A-CON) Notes: 1. Meets the requirements of EN 54-23 for the following: - Category C-3-15 (High Beacon Intensity) - Open Class O-2.7-8.5 (Low Beacon Intensity) - Flash rate 0.5Hz and 1Hz - Operating voltage range 20-40 VDC 2. Meets the requirements of EN 54-3 for the following: 1 - Dutch Slow Whoop, Sweep 500-1200Hz 2 - 7Hz Fast Sweep, 800-970Hz 3 - BS 1Hz Sweep, 800-970Hz 4 - 2 Tone, Alternating 660 / 880Hz 5 - Temporal 4, Intermittent 880Hz 6 - Temporal 3 (ISO 8201), Intermittent 880Hz 7 - March Time Beep, Intermittent 880Hz 8 - Continuous 970, 970Hz 9 - DIN 1Hz Sweep, 1200-500Hz 10 - Banshee LF Buzzer, Sweep 800-950HZ 11 - 3Hz Banshee Fast Sweep, 800-950Hz 12 - 9Hz Banshee Fast Sweep, 800-950Hz 13 - Alternating (NF-S 32.001), Alternating 554 / 440Hz 14 - Yodalarm, Alternating 800 / 1000Hz 15 - Continuous Bell 1450Hz	681aw/06
FC440CAVB	FireClass Addressable Type A Indoor Base Sounder Beacon VAD BC with Short Circuit Isolator, Clear Housing (576.440.016) (B-CAP, A-CON) Notes: 1. Meets the requirements of EN 54-23 for the following: - Open Class O-1.8-6.2 - Flash rate 0.5Hz and 1Hz - Operating voltage range 20-40 VDC 2. Meets the requirements of EN 54-3 for the following: 1 - Dutch Slow Whoop, Sweep 500-1200Hz 2 - 7Hz Fast Sweep, 800-970Hz 3 - BS 1Hz Sweep, 800-970Hz 4 - 2 Tone, Alternating 660 / 880Hz 5 - Temporal 4, Intermittent 880Hz 6 - Temporal 3 (ISO 8201), Intermittent 880Hz 7 - March Time Beep, Intermittent 880Hz 8 - Continuous 970, 970Hz 9 - DIN 1Hz Sweep, 1200-500Hz 10 - Banshee LF Buzzer, Sweep 800-950HZ 11 - 3Hz Banshee Fast Sweep, 800-950Hz 12 - 9Hz Banshee Fast Sweep, 800-950Hz 13 - Alternating (NF-S 32.001), Alternating 554 / 440Hz 14 - Yodalarm, Alternating 800 / 1000Hz 15 - Continuous Bell 1450Hz	681aw/07
P85CAV	Zettler Addressable Type B Outdoor Wall Sounder Beacon VAD BC with Short Circuit Isolator, Red Housing (576.080.017) Notes: 1. Meets the requirements of EN 54-23 for the following: - Open Class O-1.6-5.1 - Flash rate 0.5Hz and 1Hz - Operating voltage range 20-40 VDC 2. Meets the requirements of EN 54-3 for the following: 1 - Dutch Slow Whoop, Sweep 500-1200Hz 2 - 7Hz Fast Sweep, 800-970Hz 3 - BS 1Hz Sweep, 800-970Hz 4 - 2 Tone, Alternating 660 / 880Hz 5 - Temporal 4, Intermittent 880Hz 6 - Temporal 3 (ISO 8201), Intermittent 880Hz 7 - March Time Beep, Intermittent 880Hz 8 - Continuous 970, 970Hz	681aw/04

Certificated Products		LPCB Ref. No.
	9 - Continuous 850, 850Hz 10 - DIN 1Hz Sweep, 1200-500Hz 11 - Banshee LF Buzzer, Sweep 800-950HZ 12 - 3Hz Banshee Fast Sweep, 800-950Hz 13 - 9Hz Banshee Fast Sweep, 800-950Hz 14 - Alternating (NF-S 32.001), Alternating 554 / 440Hz 15 - Yodalarm, Alternating 800 / 1000Hz 16 - Continuous Bell 1450Hz 3. Ingress Protection IP55	
P80CAVB	Zettler Addressable Type A Indoor Base Sounder Beacon VAD BC with Short Circuit Isolator, Clear Housing (576.080.016) (B-CAP, A-CON) Notes: 1. Meets the requirements of EN 54-23 for the following: - Open Class O-1.8-6.2 - Flash rate 0.5Hz and 1Hz - Operating voltage range 20-40 VDC 2. Meets the requirements of EN 54-3 for the following: 1 - Dutch Slow Whoop, Sweep 500-1200Hz 2 - 7Hz Fast Sweep, 800-970Hz 3 - BS 1Hz Sweep, 800-970Hz 4 - 2 Tone, Alternating 660 / 880Hz 5 - Temporal 4, Intermittent 880Hz 6 - Temporal 3 (ISO 8201), Intermittent 880Hz 7 - March Time Beep, Intermittent 880Hz 8 - Continuous 970, 970Hz 9 - DIN 1Hz Sweep, 1200-500Hz 10 - Banshee LF Buzzer, Sweep 800-950HZ 11 - 3Hz Banshee Fast Sweep, 800-950Hz 12 - 9Hz Banshee Fast Sweep, 800-950Hz 13 - Alternating (NF-S 32.001), Alternating 554 / 440Hz 14 - Yodalarm, Alternating 800 / 1000Hz 15 - Continuous Bell 1450Hz	681aw/07
P82AVB	Addressable Type A Indoor Open Class Base Sounder VAD with SCI, White Flash, Clear Housing (576.080.015) (B-CAP, A-CON) Notes: 1) Meets the requirements of EN 54-3 at the following tones: 1 - Dutch Slow Whoop 500-1200Hz 2 - 7Hz Fast Sweep 800-970Hz 3 - BS 1Hz Sweep 800-970Hz 4 - 2 Tone 680/800Hz 5 - Temporal 4 880Hz 6 - Temporal 3 880Hz 7 - March Time Beep 880Hz 8 - Continuous 970 970Hz 9 - DIN 1Hz Sweep 1200-500Hz 10 - Banshee LF Buzzer 800-950Hz 11 - 3Hz Banshee 800-950Hz 12 - 9Hz Banshee 800-950Hz 13 - Alternating 554/440Hz 14 - Yodalarm 800/1000Hz 15 - Conventional Bell 1450Hz 2) Meets the requirements of EN 54-23 for the following: - Open Class: Coverage volume and shape as detailed in operation manual - Flash rate 0.5Hz and 1Hz - Operating voltage range 20-40 VDC	681aw/08
FC442AVB	FireClass Addressable Type A Indoor Open Class Base Sounder VAD with SCI, White Flash, Clear Housing (576.440.015) (B-CAP, A-CON) Notes: 1) Meets the requirements of EN 54-3 at the following tones: 1 - Dutch Slow Whoop 500-1200Hz 2 - 7Hz Fast Sweep 800-970Hz 3 - BS 1Hz Sweep 800-970Hz 4 - 2 Tone 680/800Hz 5 - Temporal 4 880Hz 6 - Temporal 3 880Hz 7 - March Time Beep 880Hz 8 - Continuous 970 970Hz	681aw/08

Certificated Products		LPCB Ref. No.
	9 - DIN 1Hz Sweep 1200-500Hz 10 - Banshee LF Buzzer 800-950Hz 11 - 3Hz Banshee 800-950Hz 12 - 9Hz Banshee 800-950Hz 13 - Alternating 554/440Hz 14 - Yodalarm 800/1000Hz 15 - Conventional Bell 1450Hz	
	2) Meets the requirements of EN 54-23 for the following: - Open Class: Coverage volume and shape as detailed in operation manual - Flash rate 0.5Hz and 1Hz - Operating voltage range 20-40 VDC	

Accessories

S-BOX Surface Backbox for Indoor Wall Sounder VAD (Red)
A-BOX Flush Backbox Adaptor for Indoor Wall Sounder (Metal)
B-CAP Blanking Cap for Sounder VAD (White)
A-CON Conduit Adaptor for Sounder VAD (White)

A copy of the certificate, confirming the full scope of approval including notes relating to the superscript references in the above table, may be viewed online by clicking on the product name in the associated entry on www.RedBookLive.com

Certificate No: 681at-(cl-1) to EN 54-3:2014+A1:2019, EN 54-17:2005

Certificated Products		LPCB Ref. No.
P80SB	Zettler Addressable Type A Indoor Base Sounder with Short Circuit Isolator, White Housing (576.080.002) Note: Meets the requirements of EN 54-3 at the following tones: 1 Dutch Slow Whoop 500-1200Hz 2 7Hz Fast Sweep 800-970Hz 3 BS 1Hz Sweep 800-970Hz 4 2 Tone 680/800Hz 5 Temporal 4 880Hz 6 Temporal 3 880Hz 7 March Time Beep 880Hz 8 Continuous 970 970Hz 9 DIN 1Hz Sweep 1200-500Hz 10 Banshee LF Buzzer 800-950Hz 11 3Hz Banshee 800-950Hz 12 9Hz Banshee 800-950Hz 13 Alternating 554/440Hz 14 Yodalarm 800/1000Hz 15 Conventional Bell 1450Hz	681at/01
FC440SB	FireClass Addressable Type A Indoor Base Sounder with Short Circuit Isolator, White Housing (576.440.002) Note: Meets the requirements of EN 54-3 at the following tones: 1 Dutch Slow Whoop 500-1200Hz 2 7Hz Fast Sweep 800-970Hz 3 BS 1Hz Sweep 800-970Hz 4 2 Tone 680/800Hz 5 Temporal 4 880Hz 6 Temporal 3 880Hz 7 March Time Beep 880Hz 8 Continuous 970 970Hz 9 DIN 1Hz Sweep 1200-500Hz 10 Banshee LF Buzzer 800-950Hz 11 3Hz Banshee 800-950Hz 12 9Hz Banshee 800-950Hz 13 Alternating 554/440Hz 14 Yodalarm 800/1000Hz 15 Conventional Bell 1450Hz	681at/01
4098-5273	Simplex Type A Indoor Sounder Base with Short Circuit Isolator, White Housing Note: Meets the requirements of EN 54-3 at the following tones: 1 Dutch Slow Whoop 500-1200Hz 2 7Hz Fast Sweep 800-970Hz 3 BS 1Hz Sweep 800-970Hz	681at/01

Certificated Products		LPCB Ref. No.
	4 2 Tone 680/800Hz 5 Temporal 4 880Hz 6 Temporal 3 880Hz 7 March Time Beep 880Hz 8 Continuous 970 970Hz 9 DIN 1Hz Sweep 1200-500Hz 10 Banshee LF Buzzer 800-950Hz 11 3Hz Banshee 800-950Hz 12 9Hz Banshee 800-950Hz 13 Alternating 554/440Hz 14 Yodalarm 800/1000Hz 15 Conventional Bell 1450Hz	
P80AIB	Zettler Addressable Type A Indoor Base Sounder Beacon VID with Short Circuit Isolator (Red Flash), Clear Housing (576.080.010) Note: Meets the requirements of EN 54-3 at the following tones: 1 Dutch Slow Whoop 500-1200Hz 2 7Hz Fast Sweep 800-970Hz 3 BS 1Hz Sweep 800-970Hz 4 2 Tone 680/800Hz 5 Temporal 4 880Hz 6 Temporal 3 880Hz 7 March Time Beep 880Hz 8 Continuous 970 970Hz 9 DIN 1Hz Sweep 1200-500Hz 10 Banshee LF Buzzer 800-950Hz 11 3Hz Banshee 800-950Hz 12 9Hz Banshee 800-950Hz 13 Alternating 554/440Hz 14 Yodalarm 800/1000Hz 15 Conventional Bell 1450Hz	681at/02
FC440AIB	FireClass Addressable Type A Indoor Base Sounder Beacon VID with Short Circuit Isolator (Red Flash), Clear Housing (576.080.010) Note: Meets the requirements of EN 54-3 at the following tones: 1 Dutch Slow Whoop 500-1200Hz 2 7Hz Fast Sweep 800-970Hz 3 BS 1Hz Sweep 800-970Hz 4 2 Tone 680/800Hz 5 Temporal 4 880Hz 6 Temporal 3 880Hz 7 March Time Beep 880Hz 8 Continuous 970 970Hz 9 DIN 1Hz Sweep 1200-500Hz 10 Banshee LF Buzzer 800-950Hz 11 3Hz Banshee 800-950Hz 12 9Hz Banshee 800-950Hz 13 Alternating 554/440Hz 14 Yodalarm 800/1000Hz 15 Conventional Bell 1450Hz	681at/02
4098-5274	Simplex Addressable Type A Indoor Sounder/Beacon Base with Short Circuit Isolator, Clear Housing Note: Meets the requirements of EN 54-3 at the following tones: 1 Dutch Slow Whoop 500-1200Hz 2 7Hz Fast Sweep 800-970Hz 3 BS 1Hz Sweep 800-970Hz 4 2 Tone 680/800Hz 5 Temporal 4 880Hz 6 Temporal 3 880Hz 7 March Time Beep 880Hz 8 Continuous 970 970Hz 9 DIN 1Hz Sweep 1200-500Hz 10 Banshee LF Buzzer 800-950Hz 11 3Hz Banshee 800-950Hz 12 9Hz Banshee 800-950Hz 13 Alternating 554/440Hz 14 Yodalarm 800/1000Hz 15 Conventional Bell 1450Hz	681at/02
P80SW	Zettler Addressable Type A Wall Sounder with Short Circuit Isolator, White Housing (576.080.003) Note:	681at/03

Certificated Products		LPCB Ref. No.
	Meets the requirements of EN 54-3 at the following tones: 1 Dutch Slow Whoop 500-1200Hz 2 7Hz Fast Sweep 800-970Hz 3 BS 1Hz Sweep 800-970Hz 4 2 Tone 680/800Hz 5 Temporal 4 880Hz 6 Temporal 3 880Hz 7 March Time Beep 880Hz 8 Continuous 970 970Hz 9 Continuous 850 850Hz 10 DIN 1Hz Sweep 1200-500Hz 11 Banshee LF Buzzer 800-950Hz 12 3Hz Banshee 800-950Hz 13 9Hz Banshee 800-950Hz 14 Alternating 554/440Hz 15 Yodalarm 800/1000Hz 16 Conventional Bell 1450Hz	
FC440SW	FireClass Addressable Type A Wall Sounder with Short Circuit Isolator, White Housing (576.440.003) Note: Meets the requirements of EN 54-3 at the following tones: 1 Dutch Slow Whoop 500-1200Hz 2 7Hz Fast Sweep 800-970Hz 3 BS 1Hz Sweep 800-970Hz 4 2 Tone 680/800Hz 5 Temporal 4 880Hz 6 Temporal 3 880Hz 7 March Time Beep 880Hz 8 Continuous 970 970Hz 9 Continuous 850 850Hz 10 DIN 1Hz Sweep 1200-500Hz 11 Banshee LF Buzzer 800-950Hz 12 3Hz Banshee 800-950Hz 13 9Hz Banshee 800-950Hz 14 Alternating 554/440Hz 15 Yodalarm 800/1000Hz 16 Conventional Bell 1450Hz	681at/03
4906-5225	Simplex Addressable Type A Indoor Wall Sounder White with Short Circuit Isolator Note: Meets the requirements of EN 54-3 at the following tones: 1 Dutch Slow Whoop 500-1200Hz 2 7Hz Fast Sweep 800-970Hz 3 BS 1Hz Sweep 800-970Hz 4 2 Tone 680/800Hz 5 Temporal 4 880Hz 6 Temporal 3 880Hz 7 March Time Beep 880Hz 8 Continuous 970 970Hz 9 Continuous 850 850Hz 10 DIN 1Hz Sweep 1200-500Hz 11 Banshee LF Buzzer 800-950Hz 12 3Hz Banshee 800-950Hz 13 9Hz Banshee 800-950Hz 14 Alternating 554/440Hz 15 Yodalarm 800/1000Hz 16 Conventional Bell 1450Hz	681at/03
P80SR	Zettler Addressable Type A Indoor Wall Sounder with Sort Circuit Isolator, Red Housing (576.080.004) Note: Meets the requirements of EN 54-3 at the following tones: 1 Dutch Slow Whoop 500-1200Hz 2 7Hz Fast Sweep 800-970Hz 3 BS 1Hz Sweep 800-970Hz 4 2 Tone 680/800Hz 5 Temporal 4 880Hz 6 Temporal 3 880Hz 7 March Time Beep 880Hz 8 Continuous 970 970Hz 9 Continuous 850 850Hz 10 DIN 1Hz Sweep 1200-500Hz 11 Banshee LF Buzzer 800-950Hz 12 3Hz Banshee 800-950Hz	681at/04

Certificated Products		LPCB Ref. No.
	13 9Hz Banshee 800-950Hz 14 Alternating 554/440Hz 15 Yodalarm 800/1000Hz 16 Conventional Bell 1450Hz	
FC440SR	FireClass Addressable Type A Indoor Wall Sounder with Sort Circuit Isolator, Red Housing (576.440.004) Note: Meets the requirements of EN 54-3 at the following tones: 1 Dutch Slow Whoop 500-1200Hz 2 7Hz Fast Sweep 800-970Hz 3 BS 1Hz Sweep 800-970Hz 4 2 Tone 680/800Hz 5 Temporal 4 880Hz 6 Temporal 3 880Hz 7 March Time Beep 880Hz 8 Continuous 970 970Hz 9 Continuous 850 850Hz 10 DIN 1Hz Sweep 1200-500Hz 11 Banshee LF Buzzer 800-950Hz 12 3Hz Banshee 800-950Hz 13 9Hz Banshee 800-950Hz 14 Alternating 554/440Hz 15 Yodalarm 800/1000Hz 16 Conventional Bell 1450Hz	681at/04
4906-5224	Simplex Addressable Type A Indoor Wall Sounder Red with Short Circuit Isolator Note: Meets the requirements of EN 54-3 at the following tones: 1 Dutch Slow Whoop 500-1200Hz 2 7Hz Fast Sweep 800-970Hz 3 BS 1Hz Sweep 800-970Hz 4 2 Tone 680/800Hz 5 Temporal 4 880Hz 6 Temporal 3 880Hz 7 March Time Beep 880Hz 8 Continuous 970 970Hz 9 Continuous 850 850Hz 10 DIN 1Hz Sweep 1200-500Hz 11 Banshee LF Buzzer 800-950Hz 12 3Hz Banshee 800-950Hz 13 9Hz Banshee 800-950Hz 14 Alternating 554/440Hz 15 Yodalarm 800/1000Hz 16 Conventional Bell 1450Hz	681at/04
P80AIW	Zettler Addressable Type A Indoor Wall Sounder Beacon VID with Short Circuit Isolator, White Housing (576.080.011) Note: Meets the requirements of EN 54-3 at the following tones: 1 Dutch Slow Whoop 500-1200Hz 2 7Hz Fast Sweep 800-970Hz 3 BS 1Hz Sweep 800-970Hz 4 2 Tone 680/800Hz 5 Temporal 4 880Hz 6 Temporal 3 880Hz 7 March Time Beep 880Hz 8 Continuous 970 970Hz 9 Continuous 850 850Hz 10 DIN 1Hz Sweep 1200-500Hz 11 Banshee LF Buzzer 800-950Hz 12 3Hz Banshee 800-950Hz 13 9Hz Banshee 800-950Hz 14 Alternating 554/440Hz 15 Yodalarm 800/1000Hz 16 Conventional Bell 1450Hz	681at/05
FC440AIW	FireClass Addressable Type A Indoor Wall Sounder Beacon VID with Short Circuit Isolator, White Housing (576.440.011) Note: Meets the requirements of EN 54-3 at the following tones: 1 Dutch Slow Whoop 500-1200Hz 2 7Hz Fast Sweep 800-970Hz 3 BS 1Hz Sweep 800-970Hz 4 2 Tone 680/800Hz 5 Temporal 4 880Hz	681at/05

Certificated Products		LPCB Ref. No.
	6 Temporal 3 880Hz 7 March Time Beep 880Hz 8 Continuous 970 970Hz 9 Continuous 850 850Hz 10 DIN 1Hz Sweep 1200-500Hz 11 Banshee LF Buzzer 800-950Hz 12 3Hz Banshee 800-950Hz 13 9Hz Banshee 800-950Hz 14 Alternating 554/440Hz 15 Yodalarm 800/1000Hz 16 Conventional Bell 1450Hz	
4906-5226	Simplex Type A Indoor Sounder Beacon White with Short Circuit Isolator Note: Meets the requirements of EN 54-3 at the following tones: 1 Dutch Slow Whoop 500-1200Hz 2 7Hz Fast Sweep 800-970Hz 3 BS 1Hz Sweep 800-970Hz 4 2 Tone 680/800Hz 5 Temporal 4 880Hz 6 Temporal 3 880Hz 7 March Time Beep 880Hz 8 Continuous 970 970Hz 9 Continuous 850 850Hz 10 DIN 1Hz Sweep 1200-500Hz 11 Banshee LF Buzzer 800-950Hz 12 3Hz Banshee 800-950Hz 13 9Hz Banshee 800-950Hz 14 Alternating 554/440Hz 15 Yodalarm 800/1000Hz 16 Conventional Bell 1450Hz	681at/05
P80AIR	Zettler Addressable Type A Indoor Wall Sounder Beacon VID with Short Circuit Isolator, Red Housing (576.080.012) Note: Meets the requirements of EN 54-3 at the following tones: 1 Dutch Slow Whoop 500-1200Hz 2 7Hz Fast Sweep 800-970Hz 3 BS 1Hz Sweep 800-970Hz 4 2 Tone 680/800Hz 5 Temporal 4 880Hz 6 Temporal 3 880Hz 7 March Time Beep 880Hz 8 Continuous 970 970Hz 9 Continuous 850 850Hz 10 DIN 1Hz Sweep 1200-500Hz 11 Banshee LF Buzzer 800-950Hz 12 3Hz Banshee 800-950Hz 13 9Hz Banshee 800-950Hz 14 Alternating 554/440Hz 15 Yodalarm 800/1000Hz 16 Conventional Bell 1450Hz	681at/06
FC440AIR	FireClass Addressable Type A Indoor Wall Sounder Beacon VID with Short Circuit Isolator, Red Housing (576.440.012) Note: Meets the requirements of EN 54-3 at the following tones: 1 Dutch Slow Whoop 500-1200Hz 2 7Hz Fast Sweep 800-970Hz 3 BS 1Hz Sweep 800-970Hz 4 2 Tone 680/800Hz 5 Temporal 4 880Hz 6 Temporal 3 880Hz 7 March Time Beep 880Hz 8 Continuous 970 970Hz 9 Continuous 850 850Hz 10 DIN 1Hz Sweep 1200-500Hz 11 Banshee LF Buzzer 800-950Hz 12 3Hz Banshee 800-950Hz 13 9Hz Banshee 800-950Hz 14 Alternating 554/440Hz 15 Yodalarm 800/1000Hz 16 Conventional Bell 1450Hz	681at/06
4906-5223	Simplex Type A Indoor Sounder Beacon Red with Short Circuit Isolator Note:	681at/06

Certificated Products		LPCB Ref. No.
	Meets the requirements of EN 54-3 at the following tones: 1 Dutch Slow Whoop 500-1200Hz 2 7Hz Fast Sweep 800-970Hz 3 BS 1Hz Sweep 800-970Hz 4 2 Tone 680/800Hz 5 Temporal 4 880Hz 6 Temporal 3 880Hz 7 March Time Beep 880Hz 8 Continuous 970 970Hz 9 Continuous 850 850Hz 10 DIN 1Hz Sweep 1200-500Hz 11 Banshee LF Buzzer 800-950Hz 12 3Hz Banshee 800-950Hz 13 9Hz Banshee 800-950Hz 14 Alternating 554/440Hz 15 Yodalarm 800/1000Hz 16 Conventional Bell 1450Hz	
P85SR	Zettler Addressable Type B Outdoor Wall Sounder IP with Short Circuit Isolator, Red Housing (576.440.005) Note: Meets the requirements of EN 54-3 at the following tones: 1 Dutch Slow Whoop 500-1200Hz 2 7Hz Fast Sweep 800-970Hz 3 BS 1Hz Sweep 800-970Hz 4 2 Tone 680/800Hz 5 Temporal 4 880Hz 6 Temporal 3 880Hz 7 March Time Beep 880Hz 8 Continuous 970 970Hz 9 Continuous 850 850Hz 10 DIN 1Hz Sweep 1200-500Hz 11 Banshee LF Buzzer 800-950Hz 12 3Hz Banshee 800-950Hz 13 9Hz Banshee 800-950Hz 14 Alternating 554/440Hz 15 Yodalarm 800/1000Hz 16 Conventional Bell 1450Hz	681at/07
FC445SR	FireClass Addressable Type B Outdoor Wall Sounder IP with Short Circuit Isolator, Red Housing (576.440.005) Note: Meets the requirements of EN 54-3 at the following tones: 1 Dutch Slow Whoop 500-1200Hz 2 7Hz Fast Sweep 800-970Hz 3 BS 1Hz Sweep 800-970Hz 4 2 Tone 680/800Hz 5 Temporal 4 880Hz 6 Temporal 3 880Hz 7 March Time Beep 880Hz 8 Continuous 970 970Hz 9 Continuous 850 850Hz 10 DIN 1Hz Sweep 1200-500Hz 11 Banshee LF Buzzer 800-950Hz 12 3Hz Banshee 800-950Hz 13 9Hz Banshee 800-950Hz 14 Alternating 554/440Hz 15 Yodalarm 800/1000Hz 16 Conventional Bell 1450Hz	681at/07
4906-5222	Simplex Type B Outdoor Sounder IP Red with Short Circuit Isolator Note: Meets the requirements of EN 54-3 at the following tones: 1 Dutch Slow Whoop 500-1200Hz 2 7Hz Fast Sweep 800-970Hz 3 BS 1Hz Sweep 800-970Hz 4 2 Tone 680/800Hz 5 Temporal 4 880Hz 6 Temporal 3 880Hz 7 March Time Beep 880Hz 8 Continuous 970 970Hz 9 Continuous 850 850Hz 10 DIN 1Hz Sweep 1200-500Hz 11 Banshee LF Buzzer 800-950Hz 12 3Hz Banshee 800-950Hz	681at/07

Certificated Products		LPCB Ref. No.
	13 9Hz Banshee 800-950Hz 14 Alternating 554/440Hz 15 Yodalarm 800/1000Hz 16 Conventional Bell 1450Hz	
P85AIR	Zettler Addressable Type B Outdoor Wall Sounder Beacon VID IP with Short Circuit Isolator, Red Housing (576.080.013) Note: Meets the requirements of EN 54-3 at the following tones: 1 Dutch Slow Whoop 500-1200Hz 2 7Hz Fast Sweep 800-970Hz 3 BS 1Hz Sweep 800-970Hz 4 2 Tone 680/800Hz 5 Temporal 4 880Hz 6 Temporal 3 880Hz 7 March Time Beep 880Hz 8 Continuous 970 970Hz 9 Continuous 850 850Hz 10 DIN 1Hz Sweep 1200-500Hz 11 Banshee LF Buzzer 800-950Hz 12 3Hz Banshee 800-950Hz 13 9Hz Banshee 800-950Hz 14 Alternating 554/440Hz 15 Yodalarm 800/1000Hz 16 Conventional Bell 1450Hz	681at/08
FC445AIR	FireClass Addressable Type B Outdoor Wall Sounder Beacon VID IP with Short Circuit Isolator, Red Housing (576.440.013) Note: Meets the requirements of EN 54-3 at the following tones: 1 Dutch Slow Whoop 500-1200Hz 2 7Hz Fast Sweep 800-970Hz 3 BS 1Hz Sweep 800-970Hz 4 2 Tone 680/800Hz 5 Temporal 4 880Hz 6 Temporal 3 880Hz 7 March Time Beep 880Hz 8 Continuous 970 970Hz 9 Continuous 850 850Hz 10 DIN 1Hz Sweep 1200-500Hz 11 Banshee LF Buzzer 800-950Hz 12 3Hz Banshee 800-950Hz 13 9Hz Banshee 800-950Hz 14 Alternating 554/440Hz 15 Yodalarm 800/1000Hz 16 Conventional Bell 1450Hz	681at/08

A copy of the certificate, confirming the full scope of approval including notes relating to the superscript references in the above table, may be viewed online by clicking on the product name in the associated entry on www.RedBookLive.com

Certificate No: 681g-(cl-1) to EN 54-3:2014+A1:2019

Certificated Products		LPCB Ref. No.
802SB	Analogue Addressable Type A Sounder Base Note: 1. Meets the requirements of EN 54-3 at the following tones: Fast Sweep Dutch Slow Whoop 500Hz to 1200Hz Temporal 3 880Hz	681g/01
FC430SB	Analogue Addressable Type A Sounder Base Note: 1. Meets the requirements of EN 54-3 at the following tones: Fast Sweep Dutch Slow Whoop 500Hz to 1200Hz Temporal 3 880Hz	681g/01
601SB	Type A Sounder Base Note: 1. Meets the requirements of EN 54-3 at the following tones: Temporal 3 880Hz Dutch Slow Whoop 500Hz to 1200Hz Continuous 880Hz	681g/02
601SBD	Type A Diode Sounder Base	681g/03

Certificated Products		LPCB Ref. No.
	Note: 1. Meets the requirements of EN 54-3 at the following tones: Temporal 3 880Hz Dutch Slow Whoop 500Hz to 1200Hz Continuous 880Hz	
602SB	Type A Sounder Base Note: 1. Meets the requirements of EN 54-3 at the following tones: Temporal 3 880Hz Dutch Slow Whoop 500Hz to 1200Hz Continuous 880Hz	681g/04
602SBD	Type A Diode Sounder Base Note: 1. Meets the requirements of EN 54-3 at the following tones: Temporal 3 880Hz Dutch Slow Whoop 500Hz to 1200Hz Continuous 880Hz	681g/05
901SB	Analogue Addressable Type A Sounder Base Note: 1. Meets the requirements of EN 54-3 at the following tones: Temporal 3 880Hz Dutch Slow Whoop 500Hz to 1200Hz Continuous 880Hz	681g/06
80DSB	Zettler Type A Indoor Detector Base Sounder, White Housing (576.080.001) Note: 1. Meets the requirements of EN 54-3 at the following tones: DIN 1Hz Sweep 1200Hz to 500Hz Dutch Slow Whoop 500Hz to 1200Hz Temporal 4 880Hz BS 1Hz Sweep 800Hz to 970Hz March Time Beep 880Hz 7Hz Fast Sweep 800Hz to 970Hz Temporal 3 880Hz 2 Tone 660Hz/880Hz Continuous 970Hz	681g/07
FC440DSB	FireClass Type A Indoor Detector Base Sounder, White Housing (576.440.001) Note: 1. Meets the requirements of EN 54-3 at the following tones: DIN 1Hz Sweep 1200Hz to 500Hz Dutch Slow Whoop 500Hz to 1200Hz Temporal 4 880Hz BS 1Hz Sweep 800Hz to 970Hz March Time Beep 880Hz 7Hz Fast Sweep 800Hz to 970Hz Temporal 3 880Hz 2 Tone 660Hz/880Hz Continuous 970Hz	681g/07
4098-5278	Simplex Type A Indoor Non-Addressable Sounder Base, White Housing (B-CAP) Note: 1. Meets the requirements of EN 54-3 at the following tones: DIN 1Hz Sweep 1200Hz to 500Hz Dutch Slow Whoop 500Hz to 1200Hz Temporal 4 880Hz BS 1Hz Sweep 800Hz to 970Hz March Time Beep 880Hz 7Hz Fast Sweep 800Hz to 970Hz Temporal 3 880Hz 2 Tone 660Hz/880Hz Continuous 970Hz	681g/07

Accessories:
B-CAP

A copy of the certificate, confirming the full scope of approval including notes relating to the superscript references in the above table, may be viewed online by clicking on the product name in the associated entry on www.RedBookLive.com

V-GREAT GLOBAL CORPORATION

Second Floor, Capital City, Independence Avenue, P O Box 1008, Victoria, Mahe, Seychelles
Tel: 008613581542023
E-mail: vgreatech@hotmail.com

Certificate No: 1174c-(cl-1) to EN 54-3:2014 + A1:2019

Audible Warning Device

Certificated Products		LPCB Ref. No.
VG-6734	Conventional Type A Sounder Strobe (VG-6711 Base) *Notes:* *1. Meets the requirements of EN 54-3 and approved at the following tones:* *1) Tone 01, 2400Hz - 2900Hz @ 3 Hz* *2) Tone 10, 500Hz - 1200Hz x 3, 3.5s on / 0.5s off* *2. The strobe function is not included within the scope of this approval*	1174c/01
VG-6737	Addressable Type A Indoor Digital Sounder Beacon (VG-6619 Base) Notes: 1. Meets the requirements of EN 54-3 and approved at the following tones: 1) Tone 00, 2400Hz - 2900Hz @ 3Hz 2) Tone 01, 2400Hz - 2900Hz @ 9Hz 3) Tone 08, 500Hz - 1200Hz x 3, 3.5s on / 0.5s off 4) Tone 14, 1500Hz - 2700Hz @ 3Hz 2. The beacon function is not included within the scope of this approval	1174c/02

Bases:
VG-6711 Standard base
VG-6619 Mounting base
A copy of the certificate, confirming the full scope of approval including notes relating to the superscript references in the above table, may be viewed online by clicking on the product name in the associated entry on www.RedBookLive.com

Vimpex Limited

Star Lane, Great Wakering, Essex SS3 0PJ, United Kingdom
Tel: +44 (0) 1702 216999 • Fax: +44 (0) 1702 216699
E-mail: sales@vimpex.co.uk • Website: www.vimpex.co.uk

Certificate No: 456d to EN 54-3:2014 + A1:2019

Certificated Products		LPCB Ref. No.
CBE6-XY-024-ZZ	24v ClamBell with 6 Gong Where 'X' - Can be Colour (R-Red, W-White, G-Grey) Where 'Y' - Can be Back Box Type (S-Shallow, D-Deep, W-Weatherproof) Where ZZ - Can be the product language	456d/01

Bases:

Standard Shallow Back Box for Type A
Deep Back Box for Type B
Weatherproof Deep Back Box with additional silicon gasket for Type B

A copy of the certificate, confirming the full scope of approval including notes relating to the superscript references in the above table, may be viewed online by clicking on the product name in the associated entry on www.RedBookLive.com

VIVA ELEKTRONIK SISTEMLER

Rasimpasa Mah. Muhendis Sari Ali, Sok. Birlik Han No:3/1, Kadikoy, ISTANBUL 34716, Turkey
Tel: 0090 549 797 70 80
E-mail: info@vivafire.com • Website: www.vivafire.com

Certificate No: 1426a-(cl-4) to EN 54-3 :2014 + A1: 2019, EN 54-23: 2010

Certificated Products		**LPCB Ref. No.**
VI 100-SB	Conventional Sounder Beacon (DZ-9091K Base) *Notes:* *1) Meets the requirements of EN 54-23 at the following:* *- Category C-3-8 + W-2.4-6* *- Flash rate 0.5Hz* *- One Mode (Light output synchronization)* *- Flash Colour White* *- For wall and ceiling mounting* *2) Meets the requirements of EN 54-3 at the following tone:* *- Tone 1: 667Hz - 2000Hz@0.22Hz*	1426a/01
VI 200-SB	Addressable Sounder Beacon (DZ-9091 Base) *Notes:* *1)Meets the requirement of EN 54-23 at the following:* *- Category C-3-8 + W-2.4-6* *- Flash Rate 0.5Hz* *- One Mode (Light output synchronization)* *- Flash Colour White* *- For wall and ceiling mounting* *2) Meets the requirements of EN 54-3 at the following tone:* *- Tone 1: 667Hz - 2000Hz@0.22Hz*	1426a/02

Bases
DZ-9091K
DZ-9091
A copy of the certificate, confirming the full scope of approval including notes relating to the superscript references in the above table, may be viewed online by clicking on the product name in the associated entry on www.RedBookLive.com

Certificate No: 1426h-(cl-3) to EN 54-3 :2014 + A1: 2019,

Certificated Products		**LPCB Ref. No.**
VI 200-SBLP	Intelligent Red Sounder with Visual Indicator *Notes:* *Meets the requirements of EN 54-3 at the following tone:* *Sweep tone 667Hz-2kHz @0.21Hz*	1426h/01

Base
DZ-9091K

A copy of the certificate, confirming the full scope of approval including notes relating to the superscript references in the above table, may be viewed online by clicking on the product name in the associated entry on www.RedBookLive.com

Certificate No: 1426j-(cl-3) to EN 54-3: 2014 + A1: 2019

Certificated Products		**LPCB Ref. No.**
VI 200-BSB	Addressable Type A (Indoor) Sounder Beacon Base (Standard Mounting Bracket) *Notes:* *Meets the requirements of EN 54-3: 2014 at the following tones* *Sweep Tone 667Hz 2KHz@0.21Hz*	1426j/01

Accessories
Standard Mounting Bracket

A copy of the certificate, confirming the full scope of approval including notes relating to the superscript references in the above table, may be viewed online by clicking on the product name in the associated entry on www.RedBookLive.com

Walter Kidde Portable Equipment Inc. (Trading as Edwards, A Carrier Company)

8985 Town Center Parkway, Bradenton, FL 34202, USA

Certificate No: 902a-(cl-2) to EN 54-3:2001 + A1:2002 + A2:2006

Certificated Products		**LPCB Ref. No.**
G1x-HD-E	Genesis E-Version Temporal Horn Notes: 1. Approved with back boxes G18-MP and 27193-16. 2. Meets the requirements of EN 54-3 at all volumes and the following tones: Continuous 3200HZ (interrupted at 40Hz) Temporal 3200HZ (interrupted at 40Hz); 2 pulses 0.5s on / 05s off, 1 pulse 0.5s on / 1.5s off, repeat. 3. X denotes housing colours Blank = White housing R = Red housing F = White housing with Fire Marking RF = Red housing with Fire Marking	902a/02

Accessories

AB4G-SB Surface Mounting Box
G1B-MP Back box G1 series, white
27193-16 Back box, surface white
G1RB-E Red Back Box
G1WB-E White Back Box

A copy of the certificate, confirming the full scope of approval including notes relating to the superscript references in the above table, may be viewed online by clicking on the product name in the associated entry on www.RedBookLive.com

Certificate No: 902c-(cl-1) to EN 54-3:2001 + A1:2002 + A2:2006, EN 54-23:2010

Certificated Products		**LPCB Ref. No.**
G1x-HDVM-E	Genesis E-Version Temporal Sounder- Beacon Notes: 1. Approved with backboxes G1xB-MP and 27193-xx2. Meets the requirements of EN 54-3 at the following tones: - - Continuous 3200Hz (interrupted at 40Hz) - Temporal 3200Hz (interrupted at 40Hz); 2 pulses 0.5s on / 0.5s off, - 1 pulse 0.5s on / 1.5s off, repeat 3. The wall mounted VAD meets the requirements of EN 54-23:2010 for the following: - Category (light pattern details): @15cd (W-3.0-2.8 or W-2.5-3.3) @30cd (W-3.0-4.6) @75cd (W-6.0-7.03) @110cd (W-6.0-6.0) - Synchronization - Flash rate 1Hz 4. x denotes housing colours Blank = White housing R = Red housing F = White housing with Fire Marking RF = Red housing with Fire Marking	902c/01

Bases:

G1B-MP White back box, G1 Series, plastic
G1RB-MP Red back box, G1 Series, plastic
27193-16 White back box, Surface, metal
27193-11 Red back box, Surface, metal
G1RB-E Red Back Box

G1WB-E White Back Box
A copy of the certificate, confirming the full scope of approval including notes relating to the superscript references in the above table, may be viewed online by clicking on the product name in the associated entry on www.RedBookLive.com

Certificate No: 902d-(cl-1) to EN 54-23:2010

Certificated Products		**LPCB Ref. No.**
G1x-VM-E	Genesis E-Version Temporal Beacon Notes: 1. Approved with backboxes G1xB-MP and 27193-xx 2. The wall mounted VAD meets the requirements of EN 54-23:2010 for the following: - Category (light pattern details): @15cd (W-3.0-2.8 or W-2.5-3.3) @30cd (W-3.0-4.6) @75cd (W-6.0-7.03) @110cd (W-6.0-6.0) - Synchronization - Flash rate 1Hz 3. x denotes housing colours Blank = White housing R = Red housing F = White housing with Fire Marking RF = Red housing with Fire Marking	902d/01

Bases:

G1B-MP White back box, G1 Series, plastic
G1RB-MP Red back box, G1 Series, plastic
27193-16 White back box, Surface, metal
27193-11 Red back box, Surface, metal
G1RB-E Red Back Box
G1WB-E White Back Box
A copy of the certificate, confirming the full scope of approval including notes relating to the superscript references in the above table, may be viewed online by clicking on the product name in the associated entry on www.RedBookLive.com

Certificate No: 904f-(cl-1) to EN 54-3:2014 + A1:2019

Certificated Products		**LPCB Ref. No.**
SIGA-AB4GI	Sounder Base Notes: 1. Certified for use with fire detector models - SIGA-IPHSI, SIGA-PHSI, SIGA-PSI, SIGA-IS and SIGA-HRSI 2. Meets the requirements of EN 54-3 with Steady and Temporal tones and operating voltages from 16-33 VDC 3. Certified for use with AB4G-SB Surface mounting box. 4. This is a Type A Indoor device.	904f/01
G1Axx-E	Sounder Notes: 1. Meets the requirement of EN 54-3 with Continuous and Temporal tones and operating voltages of 16-33 VDC 2. Certified for use with G1RB-E and G1WB-E back boxes 3. This is a Type A Indoor Device **xx = RF or RN or WF or WN** RF is Red with Fire Marking RN is Red with No Fire Marking WF is White with Fire Marking WN is White with No Fire Marking	904f/02

Ancillaries

AB4G-SB Surface Mounting Box
G1RB-E Red Back Box
G1WB-E White Back Box

A copy of the certificate, confirming the full scope of approval including notes relating to the superscript references in the above table, may be viewed online by clicking on the product name in the associated entry on www.RedBookLive.com

Certificate No: 904h-(cl-1) to EN 54-3:2014 + A1:2019, EN 54-23:2010

Certificated Products		LPCB Ref. No.
G1AVxx-E	Sounder Beacon Notes: 1. Meets the requirements of EN 54-23 for the following: - Category (W-2.4-8.5) - Flash rate 1Hz - Synchronization - Operating voltage range 16-33 VDC 2. Meets the requirements of EN 54-3 with Continuous and Temporal tones and operating voltages of 16-33 VDC 3. Certified for use with G1RB-E and G1WB-E back boxes 4. This is a Type A Indoor Device **xx = RF or RN or WF or WN** RF is Red with Fire Marking RN is Red with No Fire Marking WF is White with Fire Marking WN is White with No Fire Marking	904h/01

Ancillaries

G1RB-E Red Back Box
G1WB-E White Back Box

A copy of the certificate, confirming the full scope of approval including notes relating to the superscript references in the above table, may be viewed online by clicking on the product name in the associated entry on www.RedBookLive.com

Certificate No: 904j-(cl-1) to EN 54-23:2010

Certificated Products		LPCB Ref. No.
G1Vxx-E	Beacon Notes: 1. Meets the requirements of EN 54-23 for the following: - Category (W-2.4-8.5) - Flash rate 1Hz - Synchronization - Operating voltage range 16-33 VDC **xx = RF or RN or WF or WN** RF is Red with Fire Marking RN is Red with No Fire Marking WF is White with Fire Marking WN is White with No Fire Marking	904j/01
GSE**-E	Wall Speaker Strobe Expander Notes: 1. Meets the requirements of EN 54-23 for the following: - Category rating (W-2.4-8.5) - Synchronization - Flash rate 1Hz - Operating voltage 16-33Vdc **Where ** =** FT Fire Marking Top FB Fire Marking Bottom FL Fire Marking Left FR Fire Marking Right NT No Marking Top NB No Marking Bottom NL No Marking Left NR No Marking Right	904j/02

Ancillaries

G1RB-E Red Back Box

G1WB-E White Back Box

A copy of the certificate, confirming the full scope of approval including notes relating to the superscript references in the above table, may be viewed online by clicking on the product name in the associated entry on www.RedBookLive.com

---

Watania For Advanced Systems

7 Amin Abu Zeid Street, Saba Basha, Alexandria, , Egypt
Tel: +2 (03) 5857668 • Fax: +2 (03) 5857668
E-mail: info@adstems.info • Website: http://www.adsystems.info/

Certificate No: 506e-(cl-9) to EN 54-3:2014 + A1:2019

Certificated Products		LPCB Ref. No.
DF-550-HS	Conventional Type B Electronic Sounder Beacon Note:1. Meets the requirements of EN 54-3 at the following tones: 1 - Alternating Tones 800/970Hz at 2Hz 2 - Sweeping 800/970Hz at 7Hz 2. The beacon functionality is not included within the scope of approval.	506e/03
DF-700-AB	Conventional Fire Alarm Bell	506e/01

A copy of the certificate, confirming the full scope of approval including notes relating to the superscript references in the above table, may be viewed online by clicking on the product name in the associated entry on www.RedBookLive.com

---

Yingkou Tiancheng Fire Protection Equipment Co., Ltd

No. 11-2, Kechechang Xili,, Xishi District, Yingkou, Pilot Free Trade Zone, Liaoning 115004, China
Tel: +8618604079002
E-mail: wayne@tcfiretech.com • Website: www.tcfiretech.com

Certificate No: 1450a to EN 54-3:2001 + A1: 2002 + A2: 2006

Certificated Products		LPCB Ref. No.
TCSG5266	Addressable Sounder Strobe Type A (Base with 86H50 Embedded Box) *Notes:* *Meets the requirements of EN 54-3: for the following tone* *1) One Default Tone 3.5s ~ 4.5s* *The Beacon function is not approved to EN 54-23*	1450a/01
TCDZ517S	Sounder Base Type A *Notes:* *Meets the requirements of EN 54-3: for the following tones* *Tone 1, 1.67KHz-5.9KHz (3.5s - 4.5s)* *Tone 2, 2.85KHz-4.1KHz (0.1s - 0.4s)*	1450a/02
TCSG5270	Addressable Loop powered Sounder Strobe Type A *Notes:* *Meets the requirements of EN 54-3: for the following tone* *1) One Default Tone, 1.67KHz - 5.9KHz (3.5s - 4.5s)* *The Beacon function is not approved to EN 54-23*	1450a/03

Base
Base with 86H50 Embedded Box
A copy of the certificate, confirming the full scope of approval including notes relating to the superscript references in the above table, may be viewed online by clicking on the product name in the associated entry on www.RedBookLive.com

Zeta Alarms Limited

Detection House, 72-78 Morfa Road, Swansea SA1 2EN, United Kingdom
Tel: +44 (0)1792 455175 • Fax: +44 (0)1792 455176
E-mail: ghassan@zetaalarmsystems.com • Website: www.zetaalarmsystems.com

Certificate No: 330y to EN 54-3:2014 + A1:2019

Certificated Products		LPCB Ref. No.
ZT-BELL/6	Zeta 24V Bell with 6" Gong, Red, Shallow Base	330y/01
ZT-BELL/6/D	Zeta 24V Bell with 6" Gong, Red, Deep Base	330y/01
ZT-BELL/6/WP	Zeta 24V Bell with 6" Gong, Red, Weatherproof Base	330y/01

Bases/Detectors
Standard Shallow Back Box for Type A
Deep Back Box for Type B
Weatherproof Deep Back Box with additional silicon gasket for Type B

A copy of the certificate, confirming the full scope of approval including notes relating to the superscript references in the above table, may be viewed online by clicking on the product name in the associated entry on www.RedBookLive.com

Certificate No: 330r to EN 54-3:2001 +A1: 2002 +A2:2006

Audible Warning Devices

Certificated Products		LPCB Ref. No.
ZXT/R	Zeta Conventional Xtratone Indoor Sounder (Red) *Notes:* *1. Meets the requirements of EN54-3 at the following tones:* *1) Tone 0: 800Hz and 970Hz, 500ms each* *2) Tone 7: 500Hz - 1200Hz, 3.5s sweep, 0.5s silence, repeat Dutch Slow Whoop*	330r/04
ZXT/W	Zeta Conventional Xtratone Indoor Sounder (White) *Note:* *1. Meets the requirements of EN54-3 at the following tones:* *1) Tone 0: 800Hz and 970Hz, 500ms each* *2) Tone 7: 500Hz - 1200Hz, 3.5s sweep, 0.5s silence, repeat Dutch Slow Whoop*	330r/05
ZRP/R	Conventional Raptor Outdoor Sounder (Red) *Note:* *1. Meets the requirements of EN54-3 at the following tones:* *1) Tone 0: 800Hz and 970Hz, 500ms each* *2) Tone 7: 500Hz - 1200Hz, 3.5s sweep, 0.5s silence, repeat Dutch Slow Whoop*	330r/06
MKII-SSB	Fyreye II Sandwich Type A Indoor Sounder Base (MKII-AOP, MKII-AHR, MKII-AHF & MKII-AOH detectors & MKII-CB base) Note: 1. Meets the requirements of EN54-3 for the following tones: 1) Alternating 800Hz/970Hz, 1Hz (500ms-500ms) 2) Slow whoop 500Hz - 1200Hz, 3.5s sweep 0.5s silence, then repeat	330r/02
MKII-AXT/R	Zeta Addressable Xtratone Type A Indoor Sounder (Red) Note: 1. Meets the requirements of EN54-3 at the following tones: - Tone 0: 800Hz and 970Hz, 500ms each - Tone 8: 500Hz - 1200Hz, 3.5s sweep, 0.5s silence, repeat Dutch Slow Whoop	330r/08
MKII-AXT/W	Zeta Addressable Xtratone Type A Indoor Sounder (White) Note: 1. Meets the requirements of EN54-3 at the following tones: - Tone 0: 800Hz and 970Hz, 500ms each - Tone 8: 500Hz - 1200Hz, 3.5s sweep, 0.5s silence, repeat Dutch Slow Whoop	330r/09
ZRAP/R	Zeta Addressable Raptor Type B Outdoor Sounder (Red) Note: 1. Meets the requirements of EN54-3 at the following tones: - Tone 0: 800Hz and 970Hz, 500ms each - Tone 8: 500Hz - 1200Hz, 3.5s sweep, 0.5s silence, repeat Dutch Slow Whoop	330r/10
ZRAP/W	Zeta Addressable Raptor Type B Outdoor Sounder (White) Note: 1. Meets the requirements of EN54-3 at the following tones: - Tone 0: 800Hz and 970Hz, 500ms each - Tone 8: 500Hz - 1200Hz, 3.5s sweep, 0.5s silence, repeat Dutch Slow Whoop	330r/11

Bases/Detectors
MKII-CB Shallow base
MKII-AOP Fyreye II Addressable optical smoke detector
MKII-AHR Fyreye II Addressable A1R heat detector
MKII-AHF Fyreye II Addressable A2S heat detector
MKII-AOH Fyreye II Addressable optical and heat detector
Standard Shallow Back Box for Type A
Deep Back Box for Type B
Weatherproof Deep Back Box with additional silicon gasket for Type B

A copy of the certificate, confirming the full scope of approval including notes relating to the superscript references in the above table, may be viewed online by clicking on the product name in the associated entry on www.RedBookLive.com

Certificate No: 330s to EN 54-3:2001 +A1:2002 +A2:2006 & EN54-23: 2010

Audible Warning Devices

Certificated Products		**LPCB Ref. No.**
ZXTB/R	Conventional Xtratone Indoor Sounder Beacon, Red Plastic, White Flash Notes: 1. Meets the requirements of EN 54-3 at the following tones: - Tone 0: 800Hz and 970Hz, 500ms each - Tone 7: 500 to 1200Hz -3.5s sweep, 0.5 s silence, repeat Dutch Slow Whoop 2. The wall mounted, Type A VAD meets the requirements of EN 54-23 for the following: - Coverage volume W 3.4 - 7.0 - Flash rate 0.5Hz - White LED	330s/01
ZXTB/W	Conventional Xtratone Indoor Sounder Beacon, White Plastic, White Flash Notes: 1. Meets the requirements of EN 54-3 at the following tones: - Tone 0: 800Hz and 970Hz, 500ms each - Tone 7: 500 to 1200Hz -3.5s sweep, 0.5 s silence, repeat Dutch Slow Whoop 2. The wall mounted, Type A VAD meets the requirements of EN 54-23 for the following: - Coverage volume W 3.4 - 7.0 - Flash rate 0.5Hz - White LED	330s/02
ZRPB/R	Conventional Raptor Outdoor Sounder Beacon, Red Plastic, White Flash Notes: 1. Meets the requirements of EN 54-3 at the following tones: - Tone 0: 800Hz and 970Hz, 500ms each - Tone 7: 500 to 1200Hz -3.5s sweep, 0.5 s silence, repeat Dutch Slow Whoop 2. The wall mounted, Type B VAD meets the requirements of EN 54-23 for the following: - Coverage volume W 5.1 - 7.25 - Flash rate 0.5Hz - White LED	330s/03
ZRPB/W	Conventional Raptor Outdoor Sounder Beacon, White Plastic, White Flash Notes: 1. Meets the requirements of EN 54-3 at the following tones: - Tone 0: 800Hz and 970Hz, 500ms each - Tone 7: 500 to 1200Hz -3.5s sweep, 0.5 s silence, repeat Dutch Slow Whoop 2. The wall mounted, Type B VAD meets the requirements of EN 54-23 for the following: - Coverage volume W 5.1 - 7.25 - Flash rate 0.5Hz - White LED	330s/04
MKII-AXTB/R	Zeta Addressable Xtratone Type A Wall Sounder Beacon, Red Plastic, White Flash Notes: 1. Meets the requirements of EN 54-3 at the following tones: - Tone 0: 800Hz and 970Hz, 500ms each - Tone 8: 500 to 1200Hz -3.5s sweep, 0.5 s silence, repeat Dutch Slow Whoop 2. The wall mounted, Type A VAD meets the requirements of EN 54-23 for the following: - Coverage volume W 3.1 - 9.1 - Flash rate 0.5Hz - White LED	330s/05
MKII-AXTB/W	Zeta Addressable Xtratone Type A Wall Sounder Beacon, White Plastic, White Flash Notes: 1. Meets the requirements of EN 54-3 at the following tones:	330s/06

Certificated Products		LPCB Ref. No.
	- Tone 0: 800Hz and 970Hz, 500ms each - Tone 8: 500 to 1200Hz -3.5s sweep, 0.5 s silence, repeat Dutch Slow Whoop 2. The wall mounted, Type A VAD meets the requirements of EN 54-23 for the following: - Coverage volume W 3.1 -9.1 - Flash rate 0.5Hz - White LED	
ZRAPB/R	Zeta Addressable Raptor Type B Sounder Beacon, Red Plastic, White Flash Notes: 1. Meets the requirements of EN 54-3 at the following tones: - Tone 0: 800Hz and 970Hz, 500ms each - Tone 8: 500 to 1200Hz -3.5s sweep, 0.5 s silence, repeat Dutch Slow Whoop 2. The wall mounted, Type B VAD meets the requirements of EN 54-23 for the following: - Coverage volume W 3.0 - 8.7 - Flash rate 0.5Hz - White LED	330s/07
ZRAPB/W	Zeta Addressable Raptor Type B Sounder Beacon, White Plastic, White Flash Notes: 1. Meets the requirements of EN 54-3 at the following tones: - Tone 0: 800Hz and 970Hz, 500ms each - Tone 8: 500 to 1200Hz -3.5s sweep, 0.5 s silence, repeat Dutch Slow Whoop 2. The wall mounted, Type B VAD meets the requirements of EN 54-23 for the following: - Coverage volume W 3.0 - 8.7 - Flash rate 0.5Hz - White LED	330s/08

Bases/Detectors

MKII-CB Shallow base
MKII-AOP Fyreye II Addressable optical smoke detector
MKII-AHR Fyreye II Addressable A1R heat detector
MKII-AHF Fyreye II Addressable A2S heat detector
MKII-AOH Fyreye II Addressable optical and heat detector
Standard Shallow Back Box for Type A
Deep Back Box for Type B
Weatherproof Deep Back Box with additional silicon gasket for Type B

A copy of the certificate, confirming the full scope of approval including notes relating to the superscript references in the above table, may be viewed online by clicking on the product name in the associated entry on www.RedBookLive.com

Fire resistant cables are designed such that in the event of a fire they maintain circuit integrity.

This section lists fire resistant cables for use in fire safety, fire detection and fire alarm systems and other applications where specifications require cables with specific performance in the event of a fire.

BS 5839-1 ***Fire detection and fire alarm systems for buildings. Code of practice for system design, installation, commissioning and maintenance***

BS 5839-1 includes requirements for fire resistant cables for fire detection and alarm systems. It calls for 'Standard' and 'Enhanced' fire resistant cables and defines the requirements for these in Clause 26.2. These cables have to comply with EN 60702-1 (with a polymeric sheath), BS 7629-1 or BS 7846.

'Standard' fire resisting cables also have to:

a) achieve at least Class PH30 when tested in accordance with EN 50200.

and

b) maintain circuit integrity when exposed to a special flame / mechanical shock / water spray sequence equivalent to achieving a duration of 30 minutes when tested in accordance with EN 50200 Annex E.

'Enhanced' fire resisting cables also have to:

a) achieve 120 minutes survival when tested in accordance with EN 50200,

and

b) maintain circuit integrity when exposed to a special flame / mechanical shock / water spray sequence equivalent to achieving a duration of 120 minutes when tested in accordance with BS 8434-2.

Only cables complying with these requirements are listed as 'Standard' or 'Enhanced' under BS 5839-1, Clause 26.2.

BS 8519 ***Selection and installation of fire-resistant power and control cable systems for life safety and fire-fighting applications - Code of practice***

BS 8519 gives guidance and recommendations on the selection and installation of power and control cable systems which are required to maintain their circuit integrity for life safety and fire-fighting applications. It also gives specific recommendations for electrical system design for such applications, and recommended limits for survival times.

Category 1: means of escape (30 minutes fire survival time).

- power cables of 20 mm overall diameter and above meeting the 30 minutes survival time when tested in accordance with BS 8491, or
- control cables meeting the PH30 classification when tested in accordance with EN 50200, and the 30 minutes survival time when tested in accordance with Annex E of that standard

Category 2: means of escape (60 minutes fire survival time).

- power cables of 20 mm overall diameter and above meeting the 60 minutes survival time when tested in accordance with BS 8491 or
- control cables meeting the PH60 classification when tested in accordance with EN 50200, and the 120 minutes survival time when tested in accordance with BS 8434-2

Category 3: fire-fighting (120 minutes fire survival time).

- power cables of 20 mm overall diameter and above meeting the 120 minutes survival time when tested in accordance with BS 8491, or
- control cables meeting the PH120 classification when tested in accordance with EN 50200, and the 120 minutes survival time when tested in accordance with BS 8519 Annex B.

Other Standards Used

The other standards and test methods currently used for certification are listed below. This list includes some "withdrawn" standards. Where possible, these will be replaced by the superseding standards when certificates are renewed. However, where withdrawn standards are called up by current standards, certification to the withdrawn standard may need to be maintained until the calling standard is amended to remove the reference:

- BS 6387 *Performance requirements for cables required to maintain circuit integrity under fire conditions*
- BS 7629-1 *Electric cables - Specification for 300/500 V fire resistant screened cables having low emission of smoke and corrosive gases when affected by fire - Part 1: Multicore and multipair cables*
- BS 7846 *Electric cables - Thermosetting insulated, armoured, fire - resistant cables of rated voltage 600/1 000 V, having low emission of smoke and corrosive gases when affected by fire*
- BS 8592 *Electric cables - Thermosetting insulated, non-armoured, fire-resistant, single core non-sheathed cables of rated voltage 450/750 V, having low emission of smoke and corrosive gases when affected by fire*
- BS 8434-2 *Method of test for assessment of the fire integrity of electric cables - Part 2: test for unprotected small cables for use in emergency circuits- EN 50200 with a 930°C flame and with water spray*
- BS 8491 *Method for assessment of fire integrity of large diameter power cables for use as components for smoke and heat control systems and other certain active fire safety systems*
- EN 50200 *Method of test for resistance to fire of unprotected small cables for use in emergency circuits*
- EN / IEC 60332 *Tests on electric and optical fibre cables under fire conditions*
- EN 60702-1 *Mineral insulated cables and their terminations with rated voltage not exceeding 750V - Part 1: Cables*
- EN / IEC 61034-2 *Measurement of smoke density of cables burning under defined conditions - Part 2: Test procedure and requirements (IEC 61034-2)*
- IEC 60331-1 *Tests for electric cables under fire conditions - Circuit integrity - Part 1: Test method for fire with shock at a temperature of at least 830°C for cables of rated voltage up to and including 0,6/1,0kV and with an overall diameter exceeding 20mm.*
- IEC 60331-2 *Tests for electric cables under fire conditions - Circuit integrity - Part 2: Test method for fire with shock at a temperature of at least 830°C for cables of rated voltage up to and including 0,6/1,0kV and with an overall diameter not exceeding 20mm.*
- IEC 60331-21 *Tests for electric cables under fire conditions - Circuit integrity - Part 21 Procedure and requirements - Cables of rated voltage up to and including 0,6/1,0kV*
- EN / IEC 60754-1 *Tests on gases evolved during combustion of materials from cables - Part 1: Determination of the amount of halogen acid gas*
- EN / IEC 60754-2 *Tests on gases evolved during combustion of materials from cables - Part 2: Determination of acidity (by pH measurement) and conductivity*

AEI Cables Limited

Unit 9, Tilley Road, Crowther Industrial Estate, Washington, Tyne & Wear NE38 0AE, United Kingdom
Tel: +44 (0)191 410 3111 • Fax: +44 (0)191 410 8312
E-mail: sales@aeicables.co.uk • Website: www.aeicables.co.uk

Certificate No: 221e to BS 7629-1:2015 (Standard 60) BS 6387:2013 (Category CWZ) EN 50200:2015 (Class PH 120) BS 5839-1:2013 (Clause 26.2d Standard)

Firetec Standard Multicore LSZH

Nominal csa of conductor (mm^2)	Core Construction (excluding drain wire and earth)	BS 7629-1	BS 6387	EN 50200	EN 50200 Annex E	BS 5839-1 (Clause 26.2)	LPCB Ref. No.
1.5	2, 3 & 4	STANDARD 60	C ,W, Z	Class PH120	30 minutes	Standard	221e/01
2.5	2, 3 & 4	STANDARD 60	C ,W, Z	Class PH120	30 minutes	Standard	
4.0	2, 3 & 4	STANDARD 60	C ,W, Z	Class PH120	30 minutes	Standard	

A copy of the certificate, confirming the full scope of approval including notes relating to the superscript references in the above table, may be viewed online by clicking on the product name in the associated entry on www.RedBookLive.com

Certificate No: 221f to BS 7629-1:2015 (Enhanced 120) BS 6387:2013 (Category CWZ) EN 50200:2015 (Class PH120) BS 8434-2:2003+A2:2009 (120 minutes) BS 5839-1:2013 (Clause 26.2e Enhanced) BS 8519:2010 (Category 3)

Firetec Enhanced Multicore LSZH

Nominal csa of conductor (mm^2)	Core Construction	BS 7629-1	BS 6387	EN 50200	BS 8519	BS 8434-2	BS 5839-1	LPCB Ref. No.
1.5	2, 3 & 4	ENHANCED 120	C, W, Z	Class PH120	Cat 3	120 min	Enhanced 26.2e	221f/01
2.5	2, 3 & 4	ENHANCED 120	C, W, Z	Class PH120	Cat 3	120 min	Enhanced 26.2e	
4.0	2, 3 & 4	ENHANCED 120	C, W, Z	Class PH120	Cat 3	120 min	Enhanced 26.2e	

A copy of the certificate, confirming the full scope of approval including notes relating to the superscript references in the above table, may be viewed online by clicking on the product name in the associated entry on www.RedBookLive.com

Certificate No: 221k to BS 7846:2015 (Category F2)

Firetec Power

Nominal csa of conductor (mm^2)	Core Construction	BS 7846	LPCB Ref. No.
1.5	2, 3, 4, 5, 7, 12, 19, 27 & 37	F2	221k/01
2.5	2, 3, 4, 5, 7, 12, 19, 27 & 37	F2	
4.0	2, 3, 4, 5, 7, 12, 19, 27 & 37	F2	
6.0	2, 3 & 4	F2	
10	2, 3 & 4	F2	
16	2, 3 & 4	F2	
25	2, 3 & 4	F2	
35	2, 3 & 4	F2	
50	2, 3 & 4	F2	
70	2, 3 & 4	F2	
95	2, 3 & 4	F2	
120	2, 3 & 4	F2	
150	2, 3 & 4	F2	
185	2, 3 & 4	F2	
240	2, 3 & 4	F2	
300	2, 3 & 4	F2	
400	2, 3 & 4	F2	

A copy of the certificate, confirming the full scope of approval including notes relating to the superscript references in the above table, may be viewed online by clicking on the product name in the associated entry on www.RedBookLive.com

Certificate No: 221r to BS 7846:2015 (Category F2 & F120) BS 8519:2010 (Category 3)

Firetec Impact Power

Nominal csa of conductor (mm^2)	Core Construction	BS 7846-1	BS 8519 Clause 11	LPCB Ref. No.
4.0	3 & 4	F2 & F120	Category 3	221r/01
6.0	3 & 4	F2 & F120	Category 3	
10	3 & 4	F2 & F120	Category 3	
16	3 & 4	F2 & F120	Category 3	
25	3 & 4	F2 & F120	Category 3	
35	3 & 4	F2 & F120	Category 3	
50	3 & 4	F2 & F120	Category 3	
70	3 & 4	F2 & F120	Category 3	
95	3 & 4	F2 & F120	Category 3	
120	3 & 4	F2 & F120	Category 3	
150	3 & 4	F2 & F120	Category 3	
185	3 & 4	F2 & F120	Category 3	
240	3 & 4	F2 & F120	Category 3	
300	3 & 4	F2 & F120	Category 3	
400	3 & 4	F2 & F120	Category 3	

A copy of the certificate, confirming the full scope of approval including notes relating to the superscript references in the above table, may be viewed online by clicking on the product name in the associated entry on www.RedBookLive.com

Certificate No: 221s to EN 60702-1:2002+A1:2015 BS 6387:2013 (Category CWZ) IEC 60754-1:2014 EN 50200:2015 (Class PH 120) BS 8434-2:2003+A2:2009 (120 minutes) BS 5839-1:2013 (Clause 26.2e Enhanced) BS 8491: 2008 (120 minutes) BS 8519: 2010 (Category 3)

AEI Mineral Insulated Cables

Nominal csa of conductor (mm^2)	Core Construction	EN 60702	BS 6387	EN 60754-1 (outer covering)	BS 8519	LPCB Ref. No.
1.5	One, 2, 3, 4, 7, 12, & 19	Complies	CWZ	<0.5% HCl	-	221s/01
2.5	One, 2, 3, 4, 7 & 12	Complies	CWZ	<0.5% HCl	-	
4.0	One, 2, 3 & 4	Complies	CWZ	<0.5% HCl	-	
6.0	One, 2, 3 & 4	Complies	CWZ	<0.5% HCl	-	
10	One, 2, 3 & 4	Complies	CWZ	<0.5% HCl	-	
16	One, 2, 3 & 4	Complies	CWZ	<0.5% HCl	-	
25	One, 2, 3 & 4	Complies	CWZ	<0.5% HCl	-	
35	One	Complies	CWZ	<0.5% HCl	Cat 3	
50	One	Complies	CWZ	<0.5% HCl	Cat 3	
70	One	Complies	CWZ	<0.5% HCl	Cat 3	
95	One	Complies	CWZ	<0.5% HCl	Cat 3	
120	One	Complies	CWZ	<0.5% HCl	Cat 3	
150	One	Complies	CWZ	<0.5%HCl	Cat 3	
185	One	Complies	CWZ	<0.5% HCl	Cat 3	
240	One	Complies	CWZ	<0.5% HCl	Cat 3	
300	One	Complies	CWZ	<0.5% HCl	Cat 3	
400	One	Complies	CWZ	<0.5% HCl	Cat 3	
1.5-2.5	2, 3, 4, 7, 12, & 19	-	-	-	Cat 3	
4.0 - 25	2, 3 & 4	-	-	-	Cat 3	

A copy of the certificate, confirming the full scope of approval including notes relating to the superscript references in the above table, may be viewed online by clicking on the certificate link in the associated entry on www.RedBookLive.com

Certificate No: 221v to BS 6387:2013 (Category CWZ) EN 60754-1:2014 EN 61034-2:2005+A1:2013 IEC 60331-21:1999 IEC 60332-3-24:2009 BS 8434-2:2003+A2:2009 (120 minutes) EN 50200:2015 (Class PH 120)

Firetec Single Core LSZH

Nominal csa of conductor (mm^2)	Core Construction	BS 6387	BS 8434-2	EN 50200	EN 60754-1	EN 61034-2	IEC 60332-3-24	IEC 60331-21	LPCB Ref. No.
1.5	One	CWZ	120 mins	PH120	<0.5% HCl	>60%	-	Complies	221v/01
2.5	One	CWZ	120 mins	PH120	<0.5% HCl	>60%	-	Complies	
4.0	One	CWZ	120 mins	PH120	<0.5% HCl	>60%	-	Complies	
6.0	One	CWZ	120 mins	PH120	<0.5% HCl	>60%	-	Complies	
10	One	CWZ	120 mins	PH120	<0.5% HCl	>60%	Complies	Complies	
16	One	CWZ	120 mins	PH120	<0.5% HCl	>60%	Complies	Complies	
25	One	CWZ	120 mins	PH120	<0.5% HCl	>60%	Complies	Complies	
35	One	CWZ	120 mins	PH120	<0.5% HCl	>60%	Complies	Complies	
50	One	CWZ	120 mins	PH120	<0.5% HCl	>60%	Complies	Complies	
70	One	CWZ	120 mins	PH120	<0.5% HCl	>60%	Complies	Complies	
95	One	CWZ	120 mins	PH120	<0.5% HCl	>60%	Complies	Complies	
120	One	C	-	-	<0.5% HCl	>60%	Complies	Complies	
150	One	C	-	-	<0.5% HCl	>60%	Complies	Complies	
185	One	C	-	-	<0.5% HCl	>60%	Complies	Complies	
240	One	C	-	-	<0.5% HCl	>60%	Complies	Complies	
300	One	C	-	-	<0.5% HCl	>60%	Complies	Complies	
400	One	C	-	-	<0.5% HCl	>60%	Complies	Complies	
500	One	-	-	-	<0.5% HCl	>60%	Complies	Complies	
630	One	-	-	-	<0.5% HCl	>60%	Complies	Complies	

Nominal csa of conductor (mm^2)	Core Construction	BS 6387	BS 8434-2	EN 50200	EN 60754-1	EN 61034-2	IEC 60332-3-24	IEC 60331-21	LPCB Ref. No.
800	One	-	-	-	<0.5% HCl	>60%	Complies	Complies	
1000	One	-	-	-	<0.5% HCl	>60%	Complies	Complies	

A copy of the certificate, confirming the full scope of approval including notes relating to the superscript references in the above table, may be viewed online by clicking on the product name in the associated entry on www.RedBookLive.com

Certificate No: 221w to BS 8592:2016 BS 6387:2013 (Category CWZ) EN 61034-2:2005+A1:2013 IEC 60331-21:1999 BS 8434-2:2003+A2:2009 (120 minutes) EN 50200:2015 (Class PH120) EN 50200:2015 Annex E (30 minutes) IEC 60332-3-24:2009 EN 60754-1:2014 IEC 60331-3:2009 EN 60332-1-2:2004+A1:2015

FIRETEC SINGLE BS 8592

Nominal csa of conductor (mm^2)	Core Construction	BS 8592	BS 6387	BS 8434-2	EN 50200	IEC 60332-3-24	IEC 60331-21	LPCB Ref. No.
1.5	One	Complies	C W Z	120 mins	PH 120 & Annex E	-	Complies	221w/01
2.5	One	Complies	C W Z	120 mins	PH 120 & Annex E	-	Complies	
4.0	One	Complies	C W Z	120 mins	PH 120 & Annex E	-	Complies	
6.0	One	Complies	C W Z	120 mins	PH 120 & Annex E	-	Complies	
10	One	Complies	C W Z	120 mins	PH 120 & Annex E	Complies	Complies	
16	One	Complies	C W Z	120 mins	PH 120 & Annex E	Complies	Complies	
25	One	Complies	C W Z	120 mins	PH 120 & Annex E	Complies	Complies	
35	One	Complies	C W Z	120 mins	PH 120 & Annex E	Complies	Complies	
50	One	Complies	C W Z	120 mins	PH 120 & Annex E	Complies	Complies	
70	One	Complies	C W Z	120 mins	PH 120 & Annex E	Complies	Complies	

A copy of the certificate, confirming the full scope of approval including notes relating to the superscript references in the above table, may be viewed online by clicking on the product name in the associated entry on www.RedBookLive.com

Certificate No: 221s to EN 60702-1:2002+A1:2015 BS 6387:2013 (Category CWZ) IEC 60754-1:2014 EN 50200:2015 (Class PH 120) BS 8434-2:2003+A2:2009 (120 minutes) BS 5839-1:2013 (Clause 26.2e Enhanced) BS 8491: 2008 (120 minutes) BS 8519: 2010 (Category 3)

AEI Mineral Insulated Cables

Nominal csa of conductor (mm^2)	Core Construction	EN 60702-1	BS 6387	EN 60754-1 (outer covering)	EN 50200	BS 8434-2	BS 5839-1 (clause 26.2)	LPCB Ref. No.
1.0	2, 3, 4 & 7	Complies	CWZ	<0.5% HCl	PH120	120 minutes	Enhanced	221s/01
1.5	2, 3, 4 & 7	Complies	CWZ	<0.5% HCl	PH120	120 minutes	Enhanced	
2.5	2, 3, 4 & 7	Complies	CWZ	<0.5% HCl	PH120	120 minutes	Enhanced	
4.0	2	Complies	CWZ	<0.5% HCl	PH120	120 minutes	Enhanced	

A copy of the certificate, confirming the full scope of approval including notes relating to the superscript references in the above table, may be viewed online by clicking on the product name in the associated entry on www.RedBookLive.com

Al Tahadi Security And Safety Equipment Trading

PO Box 45668, Ind. Area 11, Sharjah, United Arab Emirates
Tel: +971 5 0868 4543 • Fax: +971 6535 9220
E-mail: Sharqawi61@yahoo.com • Website: www.tahadi-fire.com

Certificate No: 1383b-(cl-4) to BS 6387:2013 (Category CWZ) EN 50200:2015 (Class PH120) EN 50200:2015 Annex E (30 mins) EN 61034-2:2005+A2:2020 EN 60754-1:2014 EN 60332-1-2:2004

TAHADI FR MULTI CORE FIRE RESISTANT CABLE

Nominal csa of conductor (mm^2)	Core Construction	BS 6387	EN 50200	EN 50200 Annex E	EN 60754-1	EN 61034-2	EN 60332-1-2	LPCB Ref. No.
1.5	2, 3 & 4	C, W, Z	PH120	30 min	<0.5%	>60%	Complies	1383b-(cl-4)
2.5	2, 3 & 4	C, W, Z	PH120	30 min	<0.5%	>60%	Complies	

A copy of the certificate, confirming the full scope of approval including notes relating to the superscript references in the above table, may be viewed online by clicking on the product name in the associated entry on www.RedBookLive.com

Alfanar

3rd Industrial Area, New AL Kharj Road, PO Box 564, Riyadh 11383, Kingdom of Saudi Arabia
Tel: +966 92000 6111 • Fax: +966 11275 6699
E-mail: ahmed.attia@alfanar.com • Website: www.alfanar.com

Certificate No: 1343e to BS 6387:2013 (CWZ) IEC 60331-21:1999 EN 61034-2:2005+A1:2013 EN 60754-1:2014 EN 60754-2:2014 EN 60332-3-24:2009

Fireproof (CWZ)

Nominal csa of conductor (mm^2)	Core Construction	BS 6387	IEC 60331-21	EN 60754-1	EN 60754-2	EN 61034-2	EN 60332-3-24	LPCB Ref. No.
6.0	One	CWZ	Complies	<0.5% HCL	Complies	>60%	Complies	1343e/01
10	One	CWZ	Complies	<0.5% HCL	Complies	>60%	Complies	
16	One	CWZ	Complies	<0.5% HCL	Complies	>60%	Complies	
25	One	CWZ	Complies	<0.5% HCL	Complies	>60%	Complies	
35	One	CWZ	Complies	<0.5% HCL	Complies	>60%	Complies	
50	One	CWZ	Complies	<0.5% HCL	Complies	>60%	Complies	
70	One	CWZ	Complies	<0.5% HCL	Complies	>60%	Complies	
95	One	CWZ	Complies	<0.5% HCL	Complies	>60%	Complies	
120	One	CWZ	Complies	<0.5% HCL	Complies	>60%	Complies	
150	One	CWZ	Complies	<0.5% HCL	Complies	>60%	Complies	
185	One	CWZ	Complies	<0.5% HCL	Complies	>60%	Complies	
240	One	CWZ	Complies	<0.5% HCL	Complies	>60%	Complies	
300	One	CWZ	Complies	<0.5% HCL	Complies	>60%	Complies	
400	One	CWZ	Complies	<0.5% HCL	Complies	>60%	Complies	
500	One	CWZ	Complies	<0.5% HCL	Complies	>60%	Complies	
630	One	CWZ	Complies	<0.5% HCL	Complies	>60%	Complies	

A copy of the certificate, confirming the full scope of approval including notes relating to the superscript references in the above table, may be viewed online by clicking on the certificate link in the associated entry on www.RedBookLive.com

Certificate No: 1343a to BS 6387:2013 IEC 60331-21:1999 IEC 61034-2:2005+A1:2013 EN 60754-1:2014 EN 60754-2:2014

Alfanar FIREPROOF Wires

Nominal csa of conductor (mm^2)	Core Construction	BS 6387	IEC 60331-21	EN 60754-1	EN 60754-2	IEC 61034-2	LPCB Ref. No.
1.5	One	CWZ	Complies	<0.5% HCl	Complies	>60%	1343a/01
2.5	One	CWZ	Complies	<0.5% HCl	Complies	>60%	
4.0	One	CWZ	Complies	<0.5% HCl	Complies	>60%	
6.0	One	CWZ	Complies	<0.5% HCl	Complies	>60%	
10	One	CWZ	Complies	<0.5% HCl	Complies	>60%	
16	One	CWZ	Complies	<0.5% HCl	Complies	>60%	
25	One	CWZ	Complies	<0.5% HCl	Complies	>60%	
35	One	CWZ	Complies	<0.5% HCl	Complies	>60%	
50	One	CWZ	Complies	<0.5% HCl	Complies	>60%	
70	One	CWZ	Complies	<0.5% HCl	Complies	>60%	
95	One	CWZ	Complies	<0.5% HCl	Complies	>60%	
120	One	C	Complies	<0.5% HCl	Complies	>60%	
150	One	C	Complies	<0.5% HCl	Complies	>60%	
185	One	C	Complies	<0.5% HCl	Complies	>60%	
240	One	C	Complies	<0.5% HCl	Complies	>60%	
300	One	C	Complies	<0.5% HCl	Complies	>60%	
400	One	C	Complies	<0.5% HCl	Complies	>60%	
500	One	C	Complies	<0.5% HCl	Complies	>60%	
630	One	-	Complies	<0.5% HCl	Complies	>60%	

A copy of the certificate, confirming the full scope of approval including notes relating to the superscript references in the above table, may be viewed online by clicking on the product name in the associated entry on www.RedBookLive.com

Certificate No: 1343c to BS 7846:2015 Cat F2 & F120 EN 60754-1:2014 EN 60754-2:2014 EN 61034-2:2015+A1:2013 IEC 60332-3-24:2009 IEC 60331-21:1999

Alfanar FIREPROOF (F120) Multi-core Cables

Nominal csa of conductor (mm^2)	Core Construction	BS 7846	IEC 60331-21	EN 60754-2	LPCB Ref. No.
1.5	2, 3 & 4	F2	Complies	Complies	1343c/01
2.5	2, 3 & 4	F2	Complies	Complies	
4.0	2, 3 & 4	F2	Complies	Complies	
6.0	4	F2 & F120	Complies	Complies	
6.0	2 & 3	F2	Complies	Complies	
10	2, 3 & 4	F2 & F120	Complies	Complies	
16	2, 3 & 4	F2 & F120	Complies	Complies	
25	2, 3 & 4	F2 & F120	Complies	Complies	
35	2, 3 & 4	F2 & F120	Complies	Complies	
50	2, 3 & 4	F2 & F120	Complies	Complies	
70	2, 3 & 4	F2 & F120	Complies	Complies	
95	2, 3 & 4	F2 & F120	Complies	Complies	
120	2, 3 & 4	F2 & F120	Complies	Complies	
150	2, 3 & 4	F2 & F120	Complies	Complies	

Nominal csa of conductor (mm^2)	Core Construction	BS 7846	IEC 60331-21	EN 60754-2	LPCB Ref. No.
185	2, 3 & 4	F2 & F120	Complies	Complies	
240	2, 3 & 4	F2 & F120	Complies	Complies	
300	2, 3 & 4	F2 & F120	Complies	Complies	
400	2, 3 & 4	F2 & F120	Complies	Complies	

A copy of the certificate, confirming the full scope of approval including notes relating to the superscript references in the above table, may be viewed online by clicking on the product name in the associated entry on www.RedBookLive.com

B3 International S.R.L.

Monte Napoleone 8, Milan 20121, Italy
Tel: +39 02 8732 3325 • Fax: +39 02 8732 3101
E-mail: Mathias.Lundh@b3cable.com • Website: www.b3cable.com

Certificate No: 1168a-(cl-1) to BS 6387:2013 (CWZ) EN 61034-2:2005+A1:2013 EN 60754-1:2014 EN 50200:2015 (Class PH120) EN 50200:2015 Annex E (30 mins)

B3 Cables Italy

Nominal csa of conductor (mm^2)	Core Construction	BS 6387	EN 60754-1	EN 61034-2	EN 50200	EN 50200 Annex E	LPCB Ref. No.
1.5	2	CWZ	<0.5% HCl	>60%	PH120	30 min	1168a/01-(cl-1)
1.5	3, 4	CWZ	<0.5% HCl	>60%	PH120	30 mins	
2.5	2	CWZ	<0.5% HCl	>60%	PH120	30 min	

A copy of the certificate, confirming the full scope of approval including notes relating to the superscript references in the above table, may be viewed online by clicking on the product name in the associated entry on www.RedBookLive.com

Bahra Cables Company

CPC Industrial Park, Bahra, Jeddah 21432, Kingdom of Saudi Arabia
Tel: +966 25911115, (Toll Free) 8001248111 • Fax: +966 25915683
E-mail: fsb@bahra-cables.com • Website: www.bahra-cables.com

Certificate No: 1069a to BS 6387: 2013, IEC 60331-21: 1999, BS EN 50267-2-1: 1999, BS EN 50267-2-3: 1999 & BS EN 61034-2: 2005

FSB Wires

Nominal csa of conductor (mm^2)	Core construction	BS 6387	BS EN 50267-2-1	BS EN 50267-2-3	BS EN 61034-2	IEC 60331-21	LPCB Ref. No.
2.5	One[1]	C, W, Z [2, 3]	<0.5% HCl	Complies	>60%	Complies [5]	1069a/01
4.0	One[1]	C, W, Z [2, 3]	<0.5% HCl	Complies	>60%	Complies [5]	
6.0	One[1]	C, W, Z [2, 3]	<0.5% HCl	Complies	>60%	Complies [5]	
10	One[1]	C, W, Z [2, 3]	<0.5% HCl	Complies	>60%	Complies [5]	
16	One[1]	C, W, Z [2, 3]	<0.5% HCl	Complies	>60%	Complies [5]	
25	One[1]	C, W, Z [2, 3]	<0.5% HCl	Complies	>60%	Complies [5]	
35	One[1]	C, W, Z [2, 3]	<0.5% HCl	Complies	>60%	Complies[5]	
50	One[1]	C, W, Z [2, 3]	<0.5% HCl	Complies	>60%	Complies[5]	
70	One[1]	C, W, Z [2, 3]	<0.5% HCl	Complies	>60%	Complies[5]	
95	One[1]	C [2, 4]	<0.5% HCl	Complies	>60%	Complies[5]	
120	One[1]	C [2, 4]	<0.5% HCl	Complies	>60%	Complies[5]	

Nominal csa of conductor (mm²)	Core construction	BS 6387	BS EN 50267-2-1	BS EN 50267-2-3	BS EN 61034-2	IEC 60331-21	LPCB Ref. No.
150	One [1]	C [2, 4]	<0.5% HCl	Complies	>60%	Complies[5]	
185	One[1]	C [2, 4]	<0.5% HCl	Complies	>60%	Complies[5]	
240	One[1]	C [2, 4]	<0.5% HCl	Complies	>60%	Complies[5]	
300	One[1]	C [2, 4]	<0.5% HCl	Complies	>60%	Complies[5]	
400	One[1]	C [2, 4]	<0.5% HCl	Complies	>60%	Complies[5]	
500	One[1]	C [2, 4]	<0.5% HCl	Complies	>60%	Complies[5]	

Uo/U 450/750V

Notes:
1) Stranded conductor only.
2) Where a single cable is fitted in a conduit, only phase to earth voltage was applied.
3) To satisfy the requirement of BS 6387:2013, testing for C, W & Z categories was conducted using a 20mm stainless steel conduit as the other metallic element.
4) To satisfy the requirement of BS 6387:2013, testing for C category was conducted using a 38mm stainless steel conduit as the other metallic element.
5) The FSB Wires cables met the requirements of IEC 60331-21: 1999 when tested at a temperature of 950ºC for a duration of 180mins, at a voltage rating of 450V.

A copy of the certificate, confirming the full scope of approval including notes relating to the superscript references in the above table, may be viewed online by clicking on the certificate link in the associated entry on www.RedBookLive.com

Certificate No: 1069d to BS 6387:2013, IEC 60331-21:1999, IEC 61034-2:2005 + A1:2013, EN 50267-2-1:1999, EN 50267-2-3:1999 and EN 60332-3-24:2009

FSB 3000 Single core

Nominal csa of conductor (mm²)	Core construction	BS 6387	IEC 60331-21	EN 50267-2-1	EN 50267-2-3	IEC 61034-2	EN 60332-2-24	LPCB Ref. No.
2.5	One	CWZ& [4]	Complies	<0.5% HCl	Complies	>60%	-	1069d/01
4.0	One	CWZ& [4]	Complies	<0.5% HCl	Complies	>60%	-	
6.0	One	CWZ& [4]	Complies	<0.5% HCl	Complies	>60%	-	
10	One	CWZ& [4]	Complies	<0.5% HCl	Complies	>60%	-	
16	One	CWZ& [4]	Complies	<0.5% HCl	Complies	>60%	-	
25	One	CWZ& [4]	Complies	<0.5% HCl	Complies	>60%	-	
35	One	CWZ& [4]	Complies	<0.5% HCl	Complies	>60%	-	
50	One	CWZ& [4]	Complies	<0.5% HCl	Complies	>60%	Complies	
70	One	CWZ& [3]	Complies	<0.5% HCl	Complies	>60%	Complies	
95	One	CWZ& [3]	Complies	<0.5% HCl	Complies	>60%	Complies	
120	One	CWZ& [3]	Complies	<0.5% HCl	Complies	>60%	Complies	
150	One	CWZ& [3]	Complies	<0.5% HCl	Complies	>60%	Complies	
185	One	CWZ& [3]	Complies	<0.5% HCl	Complies	>60%	Complies	
240	One	CWZ& [3]	Complies	<0.5% HCl	Complies	>60%	Complies	
300	One	CWZ& [3]	Complies	<0.5% HCl	Complies	>60%	Complies	
400	One	CWZ& [3]	Complies	<0.5% HCl	Complies	>60%	Complies	
500	One	-	Complies	<0.5% HCl	Complies	>60%	Complies	
630	One	-	Complies	<0.5% HCl	Complies	>60%	Complies	

Uo/U 600/1000V

Notes:

1. Stranded conductor only.
2. Where a single cable is fitted in a conduit, only phase to earth voltage was applied.
3. To satisfy the requirement of BS 6387, testing for Category C was conducted using a 38mm stainless steel conduit as the other metallic element.
4. To satisfy the requirement of BS 6387, testing for Categories W and Z was conducted using a 20mm stainless steel conduit as the other metallic element.
5. In achieving a weighted average of pH greater than 4.3 and a weighted average of conductivity less than 10µS/mm on the constituent materials when tested in accordance with EN 50267-2-3:1999, the FSB 3000 Single Core cables listed also met the requirements of EN 50267-2-2:1999.
6. The FSB 3000 Single Core cables met the requirements of IEC 60331-21: 1999 when tested at a temperature of 750˚C for a duration of 180mins at a voltage rating of 600V.
7. The FSB 3000 Single Core cables listed also met the requirements of EN 60332-1-2:2004

Certificate No: 1069d to BS 6387:2013, IEC 60331-21:1999, IEC 61034-2:2005 + A1:2013, EN 50267-2-1:1999, EN 50267-2-3:1999 and EN 60332-3-24:2009

FSB 3000 Multicore

Nominal csa of conductor (mm^2)	Core Construction	BS 6387	IEC 60331-21	EN 50267-2-1	EN 50267-2-3	IEC 61034-2	EN 60332-3-24	LPCB Ref. No.
2.5	2, 3 & 4	CWZ	Complies	<0.5% HCl	Complies	>60%	Complies	1069d/02
4.0	2, 3 & 4	CWZ	Complies	<0.5% HCl	Complies	>60%	Complies	
6.0	2, 3 & 4	CWZ	Complies	<0.5% HCl	Complies	>60%	Complies	
10	2, 3 & 4	CWZ	Complies	<0.5% HCl	Complies	>60%	Complies	
16	2, 3 & 4	CWZ	Complies	<0.5% HCl	Complies	>60%	Complies	
25	2, 3 & 4	CWZ	Complies	<0.5% HCl	Complies	>60%	Complies	
35	2, 3 & 4	CWZ	Complies	<0.5% HCl	Complies	>60%	Complies	
50	2, 3 & 4	CWZ	Complies	<0.5% HCl	Complies	>60%	Complies	
70	2, 3 & 4	CWZ	Complies	<0.5% HCl	Complies	>60%	Complies	
95	2, 3 & 4	CWZ	Complies	<0.5% HCl	Complies	>60%	Complies	
120	2, 3 & 4	CWZ	Complies	<0.5% HCl	Complies	>60%	Complies	
150	2, 3 & 4	CWZ	Complies	<0.5% HCl	Complies	>60%	Complies	
185	2, 3 & 4	CWZ	Complies	<0.5% HCl	Complies	>60%	Complies	
240	2, 3 & 4	CWZ	Complies	<0.5% HCl	Complies	>60%	Complies	
300	2, 3 & 4	CWZ	Complies	<0.5% HCl	Complies	>60%	Complies	

Uo/U 600/1000V

Notes:

1. Stranded conductor only.
2. In achieving a weighted average of pH greater than 4.3 and a weighted average of conductivity less than 10µS/mm on the constituent materials when tested in accordance with EN 50267-2-3:1999, the FSB 3000 Muticore cables listed also met the requirements of EN 50267-2-2:1999.
3. The FSB 3000 Multicore cables met the requirements of IEC 60331-21: 1999 when tested at a temperature of 750˚C for a duration of 180mins at a voltage rating of 600/1000V.
4. The FSB 3000 Multicore cables listed also met the requirements of EN 60332-1-2:2004.

Certificate No: 1069c to BS 7846: 2015 Category F120 and BS 8519:2010 Category 3

FSB 6000

Nominal csa of conductor (mm^2)	Core Construction (excluding drain wire and earth)	BS 7846	BS 8519	LPCB Ref. No.
4.0	2	See Note 3	Category 3	1069c/01

Nominal csa of conductor (mm^2)	Core Construction (excluding drain wire and earth)	BS 7846	BS 8519	LPCB Ref. No.
4.0	3 & 4	F120	Category 3	
6.0	2, 3 & 4	F120	Category 3	
10	2, 3 & 4	F120	Category 3	
16	2, 3 & 4	F120	Category 3	
25	2, 3 & 4	F120	Category 3	
35	2, 3 & 4	F120	Category 3	
50	2, 3 & 4	F120	Category 3	
70	2, 3 & 4	F120	Category 3	
95	2, 3 & 4	F120	Category 3	
120	2, 3 & 4	F120	Category 3	
150	2, 3 & 4	F120	Category 3	
185	2, 3 & 4	F120	Category 3	
240	2, 3 & 4	F120	Category 3	
300	2, 3 & 4	F120	Category 3	
400	2, 3 & 4	F120	Category 3	

A copy of the certificate, confirming the full scope of approval including notes relating to the superscript references in the above table, may be viewed online by clicking on the product name in the associated entry on www.RedBookLive.com

Certificate No: 1069b to BS 7846:2015 Cat F2

FSB Cable

Nominal csa of conductor (mm^2)	Core Construction	BS 7846	LPCB Ref. No.
4.0	2, 3 & 4	F2	1069b/01
6.0	2, 3 & 4	F2	
10	2, 3 & 4	F2	
16	2, 3 & 4	F2	
25	2, 3 & 4	F2	
35	2, 3 & 4	F2	
50	2, 3 & 4	F2	
70	2, 3 & 4	F2	
95	2, 3 & 4	F2	
120	2, 3 & 4	F2	
150	2, 3 & 4	F2	
185	2, 3 & 4	F2	
240	2, 3 & 4	F2	
300	2, 3 & 4	F2	
400	2, 3 & 4	F2	

A copy of the certificate, confirming the full scope of approval including notes relating to the superscript references in the above table, may be viewed online by clicking on the product name in the associated entry on www.RedBookLive.com

Certificate No: 1069e to IEC 60331-21:1999 IEC 61034-2:2005+A1:2013 IEC 60754-1:2011 IEC 60754-2:2011 EN 60332-3-24:2009

FSB 5000 Single Core

Nominal csa of conductor (mm^2)	Core Construction	IEC 60331-21	IEC 60754-1	IEC 60754-2	IEC 61034-2	EN 60332-3-24	LPCB Ref. No.
70	One	Complies	<0.5% HCl	Complies	>60%	Complies	1069e/01
95	One	Complies	<0.5% HCl	Complies	>60%	Complies	

Nominal csa of conductor (mm^2)	Core Construction	IEC 60331-21	IEC 60754-1	IEC 60754-2	IEC 61034-2	EN 60332-3-24	LPCB Ref. No.
120	One	Complies	<0.5% HCl	Complies	>60%	Complies	
150	One	Complies	<0.5% HCl	Complies	>60%	Complies	
185	One	Complies	<0.5% HCl	Complies	>60%	Complies	
240	One	Complies	<0.5% HCl	Complies	>60%	Complies	
300	One	Complies	<0.5% HCl	Complies	>60%	Complies	
400	One	Complies	<0.5% HCl	Complies	>60%	Complies	
500	One	Complies	<0.5% HCl	Complies	>60%	Complies	
630	One	Complies	<0.5% HCl	Complies	>60%	Complies	

A copy of the certificate, confirming the full scope of approval including notes relating to the superscript references in the above table, may be viewed online by clicking on the product name in the associated entry on www.RedBookLive.com

Bahri & Mazroei Technical Systems Co. LLC

BMTC Building, PO Box 1247, Al Khabaisi, Dubai, United Arab Emirates
Tel: +971 4 269 9051 • Fax: +971 4 269 9052
E-mail: Svetlana.Kostetskaya@rewire-intl.com • Website: www.bmts.ae

Certificate No: 1469a-(cl-2) to BS 7629-1:2015 (Standard 60) BS 6387:2013 (Category CWZ) BS 5839-1:2013 (Clause 26.2d Standard) EN 50200:2015 (Class PH120) EN 50200:2015 Annex E EN 60754-2:2014 EN 60332-3-22:2009

URANUS BMUR120E30

Nominal csa of conductor (mm^2)	Core Construction (excluding drain wire and earth)	BS 7629-1	BS 6387	EN 50200	EN 50200 Annex E	BS 5839-1 Clause 26.2d	EN 60754-2	EN 60332-3-22	LPCB Ref. No.
1.0	2	STANDARD 60	C, W, Z	Class PH120	30 min	Standard	Complies	Complies	1469a-(cl-2)/01
1.5	2, 3 & 4	STANDARD 60	C, W, Z	Class PH120	30 min	Standard	Complies	Complies	
2.5	2, 3 & 4	STANDARD 60	C, W, Z	Class PH120	30 min	Standard	Complies	Complies	
4.0	2, 3 & 4	STANDARD 60	C, W, Z	Class PH120	30 min	Standard	Complies	Complies	

A copy of the certificate, confirming the full scope of approval including notes relating to the superscript references in the above table, may be viewed online by clicking on the product name in the associated entry on www.RedBookLive.com

Certificate No: 1469b-(cl-2) to BS 6387:2013 (Category CWZ) EN 50200:2015 (Class PH120) EN 61034-2:2005+A1:2013 EN 60754-1:2014 EN 60754-2:2014 IEC 60332-3-24:2009

URANUS BMUR120

Nominal csa of conductor (mm^2)	Core Construction (excluding drain wire and earth)	BS 6387	EN 50200	EN 60754-1	EN 60754-2	IEC 60332-3-24	LPCB Ref. No.
1.0	2	C, W, Z	PH120	<0.5% HCl	Complies	Complies	1469b-(cl-2)/01
1.5	2, 3 & 4	C, W, Z	PH120	<0.5% HCl	Complies	Complies	
2.5	2, 3 & 4	C, W, Z	PH120	<0.5% HCl	Complies	Complies	

A copy of the certificate, confirming the full scope of approval including notes relating to the superscript references in the above table, may be viewed online by clicking on the product name in the associated entry on www.RedBookLive.com

Basoglu Kablo ve Profil Sanayi Ticaret A.S.

Organize Sanayi Bölgesi 3, Cadde No: 32 Merkez, Bolu, Turkey
Tel: 00 374 243 86 52 • Fax: 00 374 243 86 80
E-mail: info@basoglukablo.com • Website: www.basoglukablo.com

Certificate No: 1263a to IEC 60331-21:1999
EN 61034-2:2005+A2:2020
IEC 60754-1:2014
IEC 60754-2:2014

SIMH-O (Single Core)

Nominal csa of conductor (mm^2)	Core Construction	IEC 60331-21	EN 61034-2	EN 60754-1	EN 60754-2	LPCB Ref. No.
1.5	One	(180+15) minutes	>60%	<0.5%HCl	Complies	1263a/01
2.5	One	(180+15) minutes	>60%	<0.5% HCl	Complies	
4.0	One	(180+15) minutes	>60%	<0.5% HCl	Complies	
6.0	One	(180+15) minutes	>60%	<0.5% HCl	Complies	
10	One	(180+15) minutes	>60%	<0.5% HCl	Complies	

A copy of the certificate, confirming the full scope of approval including notes relating to the superscript references in the above table, may be viewed online by clicking on the product name in the associated entry on www.RedBookLive.com

Certificate No: 1263b to IEC 60331-21:1999
EN 50200:2015 (Class PH120)
EN 61034-2:2005+A2:2020
IEC 60754-1:2014
IEC 60754-2:2014

SIMH-O (Multicore)

Nominal csa of conductor (mm^2)	Core Construction	IEC 60331-21	EN 50200	EN 61034-2	EN 60754-1	EN 60754-2	LPCB Ref. No.
1.5	2 to 5 cores	(180+15) minutes	PH120	>60%	<0.5% HCl	Complies	1263b/01
2.5	2 to 5 cores	(180+15) minutes	PH120	>60%	<0.5% HCl	Complies	
4.0	2 to 4 cores	(180+15) minutes	PH120	>60%	<0.5% HCl	Complies	
6.0	2 to 4 cores	(180+15) minutes	PH120	>60%	<0.5% HCl	Complies	
10	2 to 3 cores	(180+15) minutes	PH120	>60%	<0.5% HCl	Complies	

A copy of the certificate, confirming the full scope of approval including notes relating to the superscript references in the above table, may be viewed online by clicking on the product name in the associated entry on www.RedBookLive.com

Certificate No: 1263c to IEC 60331-21:1999
EN 50200:2015 (Class PH120)
IEC 61034-2:2005+A2:2020
IEC 60754-1:2014
IEC 60754-2:2014

JE-H(ST)H

Nominal csa of conductor (mm^2)	Core Construction (excluding drain wire and earth)	IEC 60331-21	EN 50200	IEC 61034-2	EN 60754-1	EN 60754-2	LPCB Ref. No.
0.5	1 & 2 Pairs	(180+15) minutes	PH120	>60%	<0.5% HCl	Complies	1263c/01
1.0	1 & 2 Pairs	(180+15) minutes	PH120	>60%	<0.5% HCl	Complies	

Nominal csa of conductor (mm^2)	Core Construction (excluding drain wire and earth)	IEC 60331-21	EN 50200	IEC 61034-2	EN 60754-1	EN 60754-2	LPCB Ref. No.
1.5	1 & 2 Pairs	(180+15) minutes	PH120	>60%	<0.5% HCl	Complies	

A copy of the certificate, confirming the full scope of approval including notes relating to the superscript references in the above table, may be viewed online by clicking on the product name in the associated entry on www.RedBookLive.com

Certificate No: 1263d to IEC 60331-21:1999
EN 50200:2015 (Class PH120)
EN 61034-2:2005+A2:2020
EN 60754-1:2014
EN 60754-2:2014

LIHCH

Nominal csa of conductor (mm^2)	Core Construction	IEC 60331-21	EN 50200	EN 61034-2	EN 60754-1	EN 60754-2	LPCB Ref. No.
0.5	2 to 10 cores	(180+15) minutes	PH120	>60%	<0.5% HCl	Complies	1263d/01
0.75	2 to 10 cores	(180+15) minutes	PH120	>60%	<0.5% HCl	Complies	
1.0	2 to 10 cores	(180+15) minutes	PH120	>60%	<0.5% HCl	Complies	
1.5	2 to 10 cores	(180+15) minutes	PH120	>60%	<0.5% HCl	Complies	

A copy of the certificate, confirming the full scope of approval including notes relating to the superscript references in the above table, may be viewed online by clicking on the product name in the associated entry on www.RedBookLive.com

Certificate No: 1263e to IEC 60331-21:1999
EN 50200:2015 (Class PH120)
EN 61034-2:2005 + A2:2020
EN 60754-1:2014
EN 60754-2:2014

LIHH

Nominal csa of conductor (mm^2)	Core Construction	IEC 60331-21	EN 50200	EN 61034-2	EN 60754-1	EN 60754-2	LPCB Ref. No.
0.5	2 to 7 cores	(180+15) minutes	PH120	>60%	<0.5%HCl	Complies	1263e/01
0.75	2 to 7 cores	(180+15) minutes	PH120	>60%	<0.5% HCl	Complies	
1.0	2 to 7 cores	(180+15) minutes	PH120	>60%	<0.5% HCl	Complies	
1.5	2 to 7 cores	(180+15) minutes	PH120	>60%	<0.5% HCl	Complies	

A copy of the certificate, confirming the full scope of approval including notes relating to the superscript references in the above table, may be viewed online by clicking on the product name in the associated entry on www.RedBookLive.com

Belden Wire & Cable B. V.

Edisonstraat 9, 5928 PG Venlo, The Netherlands
Tel: 00 317 7387 8300
E-mail: peter.bedaux@belden.com • Website: www.belden.com

Certificate No: 1460a to BS 6387:2013 (Category CWZ) EN 60754-1:2014 EN 61034-2:2005+A1:2013 EN 50200:2015 Annex E (30 mins) EN 50200:2015 (Class PH120) EN 60332-3-24:2009 EN 60332-3-25:2009

SAFE-T-LINE

Nominal csa of conductor (mm^2)	Core Construction (excluding drain wire and earth)	BS 6387	EN 60754-1	EN 61034-2	EN 50200 Annex E	EN 50200	LPCB Ref. No.
1.0	2, 3 & 4	C,W,Z	<0.5% HCl	>60%	30 min	Class PH120	1460a/01
1.5	2, 3 & 4	C,W,Z	<0.5% HCl	>60%	30 min	Class PH120	
2.5	2, 3 & 4	C,W,Z	<0.5% HCl	>60%	30 min	Class PH120	
4.0	2, 3 & 4	C,W,Z	<0.5% HCl	>60%	30 min	Class PH120	

A copy of the certificate, confirming the full scope of approval including notes relating to the superscript references in the above table, may be viewed online by clicking on the product name in the associated entry on www.RedBookLive.com

British Cables Company

Delaunays Road, Blackley, Manchester M9 8FP, United Kingdom
Tel: 0161 7412395
E-mail: emma.pollitt@britishcables.com • Website: https:/britishcablescompany.com

Certificate No: 1635a to BS 6387:2013 CWZ
EN 61034-2:2005 + A2:2020
IEC 60331-21:1999 (120 minutes @ 950 ˚C)
EN 60754-1:2014

FLAMGUARD 100

Nominal csa of conductor (mm^2)	Core Construction	BS 6387	EN 60754-1	EN 61034-2	IEC 60331-21	LPCB Ref. No.
1.5	One	CWZ	<0.5% HCl	>60%	(120 + 15) minutes	1635a/01
2.5	One	CWZ	<0.5% HCl	>60%	(120 + 15) minutes	
4.0	One	CWZ	<0.5% HCl	>60%	(120 + 15) minutes	
6.0	One	CWZ	<0.5% HCl	>60%	(120 + 15) minutes	
10	One	CWZ	<0.5% HCl	>60%	(120 + 15) minutes	
16	One	CWZ	<0.5% HCl	>60%	(120 + 15) minutes	

A copy of the certificate, confirming the full scope of approval including notes relating to the superscript references in the above table, may be viewed online by clicking on the product name in the associated entry on www.RedBookLive.com

Burn Cable Management Systems (B. C. M. S. Sarl)

4 Rue Des Valettes, Zone Industrielle, 45140 Ingre, France
Tel: +33 221 310 000 • Fax: +33 221 310 004
E-mail: certification@bcmsint.com • Website: www.bcmsint.com

Certificate No: 1510b to BS 6387:2013 (Category CWZ) EN 50200:2015 (Class PH30) EN 50200:2015 Annex E (30 mins) EN 61034-2:2005+A2:2020 EN 60754-1:2014 EN 60332-1-2:2004

FC200 Fire Combat Cables & FC200S Fire Combat Cables

Nominal csa of conductor (mm^2)	Core Construction	BS 6387	EN 50200	EN 50200 Annex E	EN 60754-1	EN 61034-2	EN 60332-1-2	LPCB Ref. No.
1.0	4	C,W,Z	PH30	30 min	<0.5%	>60%	Complies	1510b/01
1.5	2, 3 & 4	C,W,Z	PH30	30 min	<0.5%	>60%	Complies	
2.5	2, 3 & 4	C,W,Z	PH30	30 min	<0.5%	>60%	Complies	
1.0	4	C, W, Z	PH30	30 min	<0.5%	>60%	Complies	1510b/02
1.5	2, 3 & 4	C, W, Z	PH30	30min	<0.5%	>60%	Complies	

Nominal csa of conductor (mm^2)	Core Construction	BS 6387	EN 50200	EN 50200 Annex E	EN 60754-1	EN 61034-2	EN 60332-1-2	LPCB Ref. No.
2.5	2, 3 & 4	C, W, Z	PH30	30 min	<0.5%	>60%	Complies	

A copy of the certificate, confirming the full scope of approval including notes relating to the superscript references in the above table, may be viewed online by clicking on the product name in the associated entry on www.RedBookLive.com

Certificate No: 1510d to BS 6387:2013 (Category CWZ) EN 50200:2015 (Class PH120) EN 50200:2015 Annex E (30 mins) EN 61034-2:2005+A2:2020 EN 60754-1:2014 EN 60332-1-2:2004

FM200 FIRE RESISTANT CABLE SIMPLEX UK

Nominal csa of conductor (mm^2)	Core Construction	BS 6387	EN 50200	EN 50200 Annex E	EN 60754-1	EN 61034-2	EN 60332-1-2	LPCB Ref. No.
1.5	2, 3 & 4	C, W, Z	PH120	30 min	<0.5%	>60%	Complies	1510d/01
2.5	2, 3 & 4	C, W, Z	PH120	30 min	<0.5%	>60%	Complies	

A copy of the certificate, confirming the full scope of approval including notes relating to the superscript references in the above table, may be viewed online by clicking on the product name in the associated entry on www.RedBookLive.com

Cavicel SpA

Via Caduti del Lavoro, 18/A, Pioltello - MI 20096, Italy
Tel: +39 02 9216 0521 • Fax: +39 02 9216 0753
E-mail: cavicel@cavicel.com • Website: www.cavicel.com

Certificate No: 217i to IEC 60331-25:1999 EN 61034-2:2005+A1:2013 EN 60754-1:2014

Opticel FR

No Of Fibre Optic	No. Of Tubes	Type Of Fibre	IEC 60331-25	EN 61034-2	EN 60754-1	LPCB Ref. No.
48 FO	1-4	SM - MM	Complies	>60%	<0.5% HCl	217i/01
72 FO	1-6	SM - MM	Complies	>60%	<0.5% HCl	

A copy of the certificate, confirming the full scope of approval including notes relating to the superscript references in the above table, may be viewed online by clicking on the product name in the associated entry on www.RedBookLive.com

Certificate No: 217f to BS 7629-1:2015 BS 6387:2013 (Category CWZ) EN 50200:2015 (Class PH60) EN 50200:2015 Annex E (30 mins) BS 5839-1:2013 (Clause 26.2d Standard)

FIRECEL SR 114H

Nominal csa of conductor (mm^2)	Core Construction (excluding drain wire and earth)	BS 7629-1	BS 6387	EN 50200	EN 50200 Annex E	BS 5839-1 Clause 26.2	LPCB Ref. No.
1.0	2	Standard 30	C, W, Z	Class PH30	30min	Standard	217f/01
1.5	2, 3 & 4	Standard 60	C, W, Z	Class PH60 & PH120	30min	Standard	
2.5	2, 3 & 4	Standard 60	C, W, Z	Class PH60 & PH120	30min	Standard	
4.0	2, 3 & 4	Standard 60	C, W, Z	Class PH60 & PH120	30min	Standard	

A copy of the certificate, confirming the full scope of approval including notes relating to the superscript references in the above table, may be viewed online by clicking on the product name in the associated entry on www.RedBookLive.com

Certificate No: 217g to BS 7629-1:2015 (Enhanced 120)
BS 6387:2013 (Category CWZ)
BS EN 50200:2015 (Class PH120)
BS 8434-2:2003+A2:2009 (120 minutes)
BS 5839-1:2013 (Clause 26.2e Enhanced)
BS 8519:2010 Clause 11 (Category 3)

FIRECEL SR 114E

Nominal csa of conductor (mm^2)	Core Construction (excluding drain wire and earth)	BS 7629-1	BS 6387	EN 50200	BS 8434-2	BS 5839-1 Clause 26.2	BS 8519	LPCB Ref. No.
1.0	2	Enhanced 120	C, W, Z	Class PH120	120 minutes	Enhanced	Category 3	217g/01
1.5	2, 3 & 4	Enhanced 120	C, W, Z	Class PH120	120 minutes	Enhanced	Category 3	
2.5	2, 3 & 4	Enhanced 120	C, W, Z	Class PH120	120 minutes	Enhanced	Category 3	
4.0	2, 3 & 4	Enhanced 120	C, W, Z	Class PH120	120 minutes	Enhanced	Category 3	

A copy of the certificate, confirming the full scope of approval including notes relating to the superscript references in the above table, may be viewed online by clicking on the product name in the associated entry on www.RedBookLive.com

Certificate No: 217m to EN 50200:2015 (Class PH120) EN 61034-2:2005+A1:2013 EN 60754-1:2014

FIRECEL LAN 6

Nominal csa of conductor (AWG)	Core Construction	EN 50200	EN 61034-2	EN 60754-1	LPCB Ref. No.
22	4 pairs	PH 120	>60%	<0.5% HCl	217m/01

A copy of the certificate, confirming the full scope of approval including notes relating to the superscript references in the above table, may be viewed online by clicking on the product name in the associated entry on www.RedBookLive.com

Certificate No: 217d to BS 6387:2013 (Category CWZ) EN 70754-1:2014 EN 60754-2:2014 BS 8434-2:2003+A2:2009 EN 50200:2015 (Class PH120) EN 50200:2015 Annex E (30 mins) IEC 60331-21:1999

FIRECEL SR 112

Nominal csa of conductor (mm^2)	Core Construction (excluding drain wire and earth)	BS 6387	BS 8434-2	EN 50200	IEC 60331-21	EN 60754-2	EN 60754-1	LPCB Ref. No.
1.5	One	C, W, Z	120 mins	PH120, Annex E	Complies	Complies	<0.5% HCl	217d/01
2.5	One	C, W, Z	120 mins	PH120, Annex E	Complies	Complies	<0.5% HCl	
4.0	One	C, W, Z	120 mins	PH120, Annex E	Complies	Complies	<0.5% HCl	
6.0	One	C, W, Z	120 mins	PH120, Annex E	Complies	Complies	<0.5% HCl	
10	One	C, W, Z	120 mins	PH120, Annex E	Complies	Complies	<0.5% HCl	
16	One	C, W, Z	120 mins	PH120, Annex E	Complies	Complies	<0.5% HCl	
25	One	C, W, Z	120 mins	PH120, Annex E	Complies	Complies	<0.5% HCl	
35	One	C, W, Z	120 mins	PH120, Annex E	Complies	Complies	<0.5% HCl	
50	One	C, W, Z	120 mins	PH120, Annex E	Complies	Complies	<0.5% HCl	
70	One	C, W, Z	120 mins	PH120, Annex E	Complies	Complies	<0.5% HCl	

A copy of the certificate, confirming the full scope of approval including notes relating to the superscript references in the above table, may be viewed online by clicking on the product name in the associated entry on www.RedBookLive.com

Certificate No: 217n to BS 6387:2013 CWZ EN 50200:2015 (Class PH120) EN 50200:2015 Annex E (30 mins) EN 61034-2:2005+A2:2020 EN 60754-1:2014

FIRECEL SR 104

Nominal csa of conductor (mm^2)	Core Construction (excluding drain wire and earth)	BS 6387	EN 50200	EN 50200 Annex E	EN 61034-2	EN 60754-1	LPCB Ref. No.
1.5	2, 3 & 4	C, W, Z	PH120	Complies	>60%	<0.5% HCl	217n/01
2.5	2, 3 & 4	C, W, Z	PH120	Complies	>60%	<0.5% HCl	
4.0	2, 3 & 4	C, W, Z	PH120	Complies	>60%	<0.5% HCl	

A copy of the certificate, confirming the full scope of approval including notes relating to the superscript references in the above table, may be viewed online by clicking on the product name in the associated entry on www.RedBookLive.com

Cleveland Cable Company

Riverside Park Road, Middlesbrough, Cleveland TS2 1QW, United Kingdom
Tel: +44 1642 757 300 • Fax: +44 1642 222 683
E-mail: sales@clevelandcable.com • Website: http://www.clevelandcable.com

Certificate No: 1410a to BS 6387:2013 (Category CWZ) EN 60754-1:2014 EN 61034-2:2005+A1:2013 EN 50200:2015 Annex E (30 mins) EN 50200:2015 (Class PH120) EN 60332-3-24:2009 EN 60332-3-25:2009

ZFLAM200

Nominal csa of conductor (mm^2)	Core Construction (excluding drain wire and earth)	BS 6387	EN 60754-1	EN 61034-2	EN 50200 Annex E	EN 50200	LPCB Ref. No.
1.0	2, 3 & 4	C, W, Z	<0.5% HCl	>60%	30 min	Class PH120	1410a/01
1.5	2, 3 & 4	C, W, Z	<0.5% HCl	>60%	30 min	Class PH120	
2.5	2, 3 & 4	C, W, Z	<0.5% HCl	>60%	30 min	Class PH120	
4.0	2, 3 & 4	C, W, Z	<0.5% HCl	>60%	30 min	Class PH120	

A copy of the certificate, confirming the full scope of approval including notes relating to the superscript references in the above table, may be viewed online by clicking on the product name in the associated entry on www.RedBookLive.com

Context Plus Ltd

Progress House, Newby Industrial Estate, Newby Road, Hazel Grove, Stockport SK7 5DA, United Kingdom
Tel: +44 (0)161 257 2541 • Fax: +44 (0)161 225 8817
E-mail: xportsales@xportsales.com • Website: www.xportsales.com

Certificate No: 682a-(cl-3) to BS 7629-1:2015 (STANDARD 60) BS 6387:2013 (CWZ) EN 50200:2015 (Class PH120) EN 50200:2015 Annex E (30 mins) BS 5839-1:2013 (Clause 26.2d Standard) EN 60332-3-24:2009 EN 60332-3-25:2009

Context Plus

Nominal csa of conductor (mm^2)	Core Construction (excluding drain wire and earth)	BS 7629-1	BS 6387	EN 50200	EN 50200 Annex E	BS 5839-1 Clause 26.2	LPCB Ref. No.
1.0	2	STANDARD 60	C,W,Z	Class PH120	30min	Standard	682a/01
1.5	2, 3 & 4	STANDARD 60	C,W,Z	Class PH120	30 min	Standard	
2.5	2, 3 & 4	STANDARD 60	C,W,Z	Class PH120	30min	Standard	
4.0	2, 3 & 4	STANDARD 60	C,W,Z	Class PH120	30min	Standard	

A copy of the certificate, confirming the full scope of approval including notes relating to the superscript references in the above table, may be viewed online by clicking on the product name in the associated entry on www.RedBookLive.com

Certificate No: 682e-(cl-1) to BS 6387:2013 (Category CWZ), EN 60754-1:2014, EN 61034-2:2005+A1:2013, EN 50200:2015 (Class PH30), EN60332-3-24:2009, EN 60332-3-25:2009

Context Plus XPS

Nominal csa of conductor (mm^2)	Core Construction (excluding drain wire and earth)	BS 6387	EN 60754-1	EN 61034-2	EN 50200	LPCB Ref. No.
1.0	2,3 & 4	C, W, Z	<0.5% HCl	>60%	PH30	682e/01
1.5	2,3 & 4	C, W, Z	<0.5% HCl	>60%	PH30	
2.5	2,3 & 4	C, W, Z	<0.5% HCl	>60%	PH30	
4.0	2,3 & 4	C, W, Z	<0.5% HCl	>60%	PH30	

A copy of the certificate, confirming the full scope of approval including notes relating to the superscript references in the above table, may be viewed online by clicking on the product name in the associated entry on www.RedBookLive.com

Certificate No: 682c-(cl-1) to BS 6387: 2013 (Category CWZ), EN 60754-1-1: 2014, EN 61034-2: 2005+A1:2013, EN 50200: 2015 Annex E (30 mins), EN 50200: 2015 (Class PH120), EN 60332-3-24:2009 and EN 60332-3-25:2009

Context Plus XP

Nominal csa of conductor (mm^2)	Core Construction (excluding drain wire and earth)	BS 6387	EN 60754-1	EN 61034-2	EN 50200 Annex E	EN 50200	LPCB Ref. No.
1.0	2,3 & 4	C, W, Z	<0.5% HCl	>60%	30min	PH120	682c/01
1.5	2,3 & 4	C, W, Z	<0.5% HCl	>60%	30min	PH120	
2.5	2,3 & 4	C, W, Z	<0.5% HCl	>60%	30min	PH120	
4.0	2,3 & 4	C, W, Z	<0.5% HCl	>60%	30min	PH120	

A copy of the certificate, confirming the full scope of approval including notes relating to the superscript references in the above table, may be viewed online by clicking on the product name in the associated entry on www.RedBookLive.com

Dätwyler IT Infra AG

Gotthardstrasse 31, CH-6460 Altdorf, Switzerland
Tel: +41 41 875 1268 • Fax: +41 41 875 1986
E-mail: info.cabling.ch@datwyler.com • Website: www.cabling.datwyler.com

Certificate No: 172h to BS 7629-1:2015 (Enhanced 120)
BS 6387:2013 (Category CWZ)
BS EN 50200:2015 (Class PH120)
BS 8434-2:2003+A2:2009 (120 minutes)
BS 5839-1:2013 (Clause 26.2e Enhanced)
BS 8519:2010 Clause 11 (Category 3)

DFS EN BS

Nominal csa of conductor (mm^2)	Core Construction (excluding drain wire and earth)	BS 7629-1	BS 6387	EN 50200	BS 8434-2	BS 5839-1 Clause 26.2	BS 8519	LPCB Ref. No.
1.0	2	Enhanced 120	C, W, Z	Class PH120	120 minutes	Enhanced	Category 3	172h/01
1.5	2, 3 & 4	Enhanced 120	C, W, Z	Class PH120	120 minutes	Enhanced	Category 3	
2.5	2, 3 & 4	Enhanced 120	C, W, Z	Class PH120	120 minutes	Enhanced	Category 3	
4.0	2, 3 & 4	Enhanced 120	C, W, Z	Class PH120	120 minutes	Enhanced	Category 3	

A copy of the certificate, confirming the full scope of approval including notes relating to the superscript references in the above table, may be viewed online by clicking on the product name in the associated entry on www.RedBookLive.com

Certificate No: 172i to BS 7629-1:2015 (Standard 30 & 60) BS 6387:2013 (Category CWZ) EN 50200:2015 (Class PH60 & PH120) EN 50200:2006 Annex E (30 mins) BS 5839-1:2013 (Clause 26.2d Standard)

DFS ST BS

Nominal csa of conductor (mm^2)	Core Construction (excluding drain wire and earth)	BS 7629-1	BS 6387	EN 50200	EN 50200 Annex E	BS 5839-1 Clause 26.2d	LPCB Ref. No.
1.0	2	Standard 30	C W Z	Class PH30	30 mins	Standard	172i/01
1.5	2,3 & 4	Standard 60	C W Z	Class PH60 & PH120	30 mins	Standard	
2.5	2,3 & 4	Standard 60	C W Z	Class PH60 & PH120	30 mins	Standard	
4.0	2,3 & 4	Standard 60	C W Z	Class PH60 & PH120	30 mins	Standard	

A copy of the certificate, confirming the full scope of approval including notes relating to the superscript references in the above table, may be viewed online by clicking on the product name in the associated entry on www.RedBookLive.com

Certificate No: 172j to BS 6387:2013 (CWZ) EN 50200:2015 (Class PH120) EN 50200:2015 Annex E EN 61034-2:2005+A2:2020 EN 60754-1:2014

DFS ME BS

Nominal csa of conductor (mm^2)	Core Construction (excluding drain wire and earth)	BS 6387	EN 50200	EN 50200 Annex E	EN 61034-2	EN 60754-1	LPCB Ref. No.
1.5	2,3 & 4	C, W, Z	PH120	Complies	>60%	<0.5% HCl	172j/01
2.5	2,3 & 4	C, W, Z	PH120	Complies	>60%	<0.5% HCl	
4.0	2,3 & 4	C, W, Z	PH120	Complies	>60%	<0.5% HCl	

A copy of the certificate, confirming the full scope of approval including notes relating to the superscript references in the above table, may be viewed online by clicking on the product name in the associated entry on www.RedBookLive.com

Doha Cables

MIC Community Area, Mesaieed 22487, Qatar
Tel: +974 5591 2001 • Fax: +974 4490 2176
E-mail: info@dohacables.com • Website: www.dohacables.com

Certificate No: 1281c to BS 7846:2015 Cat F2 EN 60754-2:2014 IEC 60331-21:1999 EN 50200:2015 (Class PH120) EN 50200:2015 Annex E BS 8434-2:2003+A2:2009

FIRE GUARD 1000

Nominal csa of conductor (mm^2)	Core Construction	BS 7846-1	EN 60754-2	IEC 60331-21	EN 50200	BS 8434-2	LPCB Ref. No.
2.5	2,3 & 4	F2	Complies	Complies	PH120 & Annex E	120min	1281c/01
4.0	2,3 & 4	F2	Complies	Complies	PH120 & Annex E	120min	
6.0	2,3 & 4	F2	Complies	Complies	-	-	
10	2,3 & 4	F2	Complies	Complies	-	-	
16	2,3 & 4	F2	Complies	Complies	-	-	
25	2,3 & 4	F2	Complies	Complies	-	-	
35	2,3 & 4	F2	Complies	Complies	-	-	
50	2,3 & 4	F2	Complies	Complies	-	-	
70	2,3 & 4	F2	Complies	Complies	-	-	
95	2,3 & 4	F2	Complies	Complies	-	-	
120	2,3 & 4	F2	Complies	Complies	-	-	
150	2,3 & 4	F2	Complies	Complies	-	-	
185	2,3 & 4	F2	Complies	Complies	-	-	
240	2,3 & 4	F2	Complies	Complies	-	-	
300	2,3 & 4	F2	Complies	Complies	-	-	

A copy of the certificate, confirming the full scope of approval including notes relating to the superscript references in the above table, may be viewed online by clicking on the product name in the associated entry on www.RedBookLive.com

Certificate No: 1281a to BS 7846:2015 (Category F2 & F120) EN 60754-1:2014 EN 60754-2:2014 BS 8519:2010 (Category 3)

FIRE GUARD 1000 PLUS

Nominal csa of conductor (mm^2)	Core Construction	BS 7846	EN 60754-2	BS 8519	LPCB Ref. No.
50	4	F2 & F120	Complies	Category 3	1281a/01
70	4	F2 & F120	Complies	Category 3	
95	4	F2 & F120	Complies	Category 3	
120	4	F2 & F120	Complies	Category 3	
150	4	F2 & F120	Complies	Category 3	
185	4	F2 & F120	Complies	Category 3	
240	4	F2 & F120	Complies	Category 3	
300	4	F2 & F120	Complies	Category 3	
10	2, 3 & 4	F2 & F120	Complies	Category 3	1281a/02
16	2, 3 & 4	F2 & F120	Complies	Category 3	
25	2, 3 & 4	F2 & F120	Complies	Category 3	
35	2, 3 & 4	F2 & F120	Complies	Category 3	
50	2, 3 & 4	F2 & F120	Complies	Category 3	
70	2, 3 & 4	F2 & F120	Complies	Category 3	
95	2, 3 & 4	F2 & F120	Complies	Category 3	
120	2, 3 & 4	F2 & F120	Complies	Category 3	
150	2, 3 & 4	F2 & F120	Complies	Category 3	
185	2, 3 & 4	F2 & F120	Complies	Category 3	
240	2, 3 & 4	F2 & F120	Complies	Category 3	
300	2, 3 & 4	F2 & F120	Complies	Category 3	
400	2, 3 & 4	F2 & F120	Complies	Category 3	
4.0	2, 3 & 4	F2 & F120	Complies	Category 3	1281a/03
6.0	2, 3 & 4	F2 & F120	Complies	Category 3	
10	2, 3 & 4	F2 & F120	Complies	Category 3	
16	2, 3 & 4	F2 & F120	Complies	Category 3	
25	2, 3 & 4	F2 & F120	Complies	Category 3	
35	2, 3 & 4	F2 & F120	Complies	Category 3	
50	2, 3 & 4	F2 & F120	Complies	Category 3	
70	2, 3 & 4	F2 & F120	Complies	Category 3	
95	2, 3 & 4	F2 & F120	Complies	Category 3	
120	2, 3 & 4	F2 & F120	Complies	Category 3	
150	2, 3 & 4	F2 & F120	Complies	Category 3	
185	2, 3 & 4	F2 & F120	Complies	Category 3	
240	2, 3 & 4	F2 & F120	Complies	Category 3	
300	2, 3 & 4	F2 & F120	Complies	Category 3	
400	2, 3 & 4	F2 & F120	Complies	Category 3	

A copy of the certificate, confirming the full scope of approval including notes relating to the superscript references in the above table, may be viewed online by clicking on the product name in the associated entry on www.RedBookLive.com

Certificate No: 1281b to BS 6387:2013 (Category CWZ)
EN 60754-1:2014
EN 60754-2:2014
EN 61034-2:2005+A2:2020
IEC 60331-21:1999
EN 60332-1-2:2004+A11:2016

FIRE GUARD 100

Nominal csa of conductor (mm^2)	Core Construction	BS 6387	EN 60754-1	EN 60754-2	EN 61034-2	IEC 60331-21	EN 60332-1-2	LPCB Ref. No.
1.5	One	CWZ	<0.5% HCl	Complies	>60%	(90+15) minutes	Complies	1281b/01
2.5	One	CWZ	<0.5% HCl	Complies	>60%	(90+15) minutes	Complies	
4.0	One	CWZ	<0.5% HCl	Complies	>60%	(90+15) minutes	Complies	
6.0	One	CWZ	<0.5% HCl	Complies	>60%	(90+15) minutes	Complies	
10	One	CWZ	<0.5% HCl	Complies	>60%	(90+15) minutes	Complies	
16	One	CWZ	<0.5% HCl	Complies	>60%	(90+15) minutes	Complies	

Nominal csa of conductor (mm^2)	Core Construction	BS 6387	EN 60754-1	EN 60754-2	EN 61034-2	IEC 60331-21	EN 60332-1-2	LPCB Ref. No.
25	One	CWZ	<0.5% HCl	Complies	>60%	(90+15) minutes	Complies	
35	One	CWZ	<0.5% HCl	Complies	>60%	(90+15) minutes	Complies	
50	One	CWZ	<0.5% HCl	Complies	>60%	(90+15) minutes	Complies	
70	One	CWZ	<0.5% HCl	Complies	>60%	(90+15) minutes	Complies	
95	One	CWZ	<0.5% HCl	Complies	>60%	(90+15) minutes	Complies	
120	One	C	<0.5% HCl	Complies	>60%	(90+15) minutes	Complies	
150	One	C	<0.5% HCl	Complies	>60%	(90+15) minutes	Complies	
185	One	C	<0.5% HCl	Complies	>60%	(90+15) minutes	Complies	
240	One	C	<0.5% HCl	Complies	>60%	(90+15) minutes	Complies	
300	One	C	<0.5% HCl	Complies	>60%	(90+15) minutes	Complies	
400	One	C	<0.5% HCl	Complies	>60%	(90+15) minutes	Complies	
500	One	-	<0.5% HCl	Complies	>60%	(90+15) minutes	Complies	
630	One	-	<0.5% HCl	Complies	>60%	(90+15) minutes	Complies	

A copy of the certificate, confirming the full scope of approval including notes relating to the superscript references in the above table, may be viewed online by clicking on the product name in the associated entry on www.RedBookLive.com

Doncaster Cables

Millfields Industrial Estate, Arksey Lane, Bentley, Doncaster, South Yorkshire DN5 0SJ, United Kingdom
Tel: +44 (0)1302 821700 • Fax: +44 (0)1302 821701
E-mail: sales@doncastercables.com • Website: www.doncastercables.com

Certificate No: 338b to BS 7629-1:2015 BS 6387:2013 (Category CWZ) IEC 60331-21:1999 IEC 60332-3-24:2000+A1:2008 EN 50200:2015 (PH120) BS 8434-2:2003+A2:2009 120 min BS 5839-1:2002+A2:2013 Clause 26.2e

FIRESURE PLUS

Nominal csa of conductor (mm^2)	Core Construction	BS 7629-1	BS 6387	IEC 60332-3-24	EN 50200	BS 8434-2	BS 5839-1 Clause 26.2	LPCB Ref. No.
1.0	2	ENHANCED 120	C,W,Z	Complies	Class PH120	120 minutes	Enhanced	338b/01
1.5	2,3 & 4	ENHANCED 120	C,W,Z	Complies	Class PH120	120 minutes	Enhanced	
2.5	2,3 & 4	ENHANCED 120	C,W,Z	Complies	Class PH120	120 minutes	Enhanced	
4.0	2,3 & 4	ENHANCED 120	C,W,Z	Complies	Class PH120	120 minutes	Enhanced	

A copy of the certificate, confirming the full scope of approval including notes relating to the superscript references in the above table, may be viewed online by clicking on the product name in the associated entry on www.RedBookLive.com

Certificate No: 338c to BS 7629-1:2015 (Standard 60)
BS 6387:2013 (Category CWZ)
EN 50200:2015 (Class PH120)
EN 50200:2015 Annex E
BS 5839-1:2017 (Clause 26.2d Standard)
BS 8519:2010 Clause 11 (Category 1)

FIRESURE 500

Nominal csa of conductor (mm^2)	Core Construction	BS 7629-1	BS 6387	EN 50200	EN 50200	BS 5839-1 Clause 26.2d	BS 8519 Clause 11	LPCB Ref. No.
1.0	2	Standard 60	C, W, Z	PH120	Annex E	Standard	Category 1	338c/01
1.5	2, 3 & 4	Standard 60	C, W, Z	PH120	Annex E	Standard	Category 1	
2.5	2, 3 & 4	Standard 60	C, W, Z	PH120	Annex E	Standard	Category 1	
4.0	2, 3 & 4	Standard 60	C, W, Z	PH120	Annex E	Standard	Category 1	

A copy of the certificate, confirming the full scope of approval including notes relating to the superscript references in the above table, may be viewed online by clicking on the product name in the associated entry on www.RedBookLive.com

Certificate No: 338e to BS 8592:2016 BS 6387:2013 (Category CWZ) EN 50200:2015 (Class PH120) BS 8434-2:2003+A2:2009 (120 mins) IEC 60331-21:1999 EN 61034-2:2005+A2:2020 EN 60754-1:2014

FIRESURE 1

Nominal csa of conductor (mm^2)	Core Construction	BS 8592	BS 6387	BS 50200	BS 8434-2	IEC 60331-21	LPCB Ref. No.
1.5	One	Complies	CWZ	PH 120	Complies	90 + 15 minutes	338e/01
2.5	One	Complies	CWZ	PH 120	Complies	90 + 15 minutes	
4.0	One	Complies	CWZ	PH 120	Complies	90 + 15 minutes	
6.0	One	Complies	CWZ	PH 120	Complies	90 + 15 minutes	
10	One	Complies	CWZ	PH 120	Complies	90 + 15 minutes	
16	One	Complies	CWZ	PH 120	Complies	90 + 15 minutes	
25	One	Complies	CWZ	PH 120	Complies	90 + 15 minutes	
35	One	Complies	CWZ	PH 120	Complies	90 + 15 minutes	
50	One	Complies	CWZ	PH 120	Complies	90 + 15 minutes	
70	One	Complies	CWZ	PH 120	Complies	90 + 15 minutes	

A copy of the certificate, confirming the full scope of approval including notes relating to the superscript references in the above table, may be viewed online by clicking on the product name in the associated entry on www.RedBookLive.com

Draka (Malaysia) Sdn. Bhd.

Lot 48, Jalan Industri 13, Alor Gajah Industrial Estate, 78000 Alor Gajah, Malacca, Malaysia
Tel: +606 556 3833 • Fax: +606 556 3282
E-mail: scmm@draka.com • Website: www.draka.com.my

Certificate No: 994a to BS 6387: 1994, IEC 60331-21: 1999, BS EN 50267-2-1: 1999 and BS EN 61034-2: 2005

FIRETUF Classic MI SIFER (s)

Nominal csa of conductor (mm^2)	Core construction (See note 1)	BS 6387 (See notes 2 - 4)	BS EN 50267-2-1	BS EN 61034-2	IEC 60331-21 (See note 9)	LPCB Ref. No.
1.5	One	C, W, $Z^{(5)}$	<0.5% HCl	>60%	Complies	994a/01
2.5	One	C, W, $Z^{(5)}$	<0.5% HCl	>60%	Complies	
4.0	One	C, W, $Z^{(6, 7)}$	<0.5% HCl	>60%	Complies	
6.0	One	C, W, $Z^{(6, 7)}$	<0.5% HCl	>60%	Complies	
10	One	C, W, $Z^{(6, 7)}$	<0.5% HCl	>60%	Complies	
16	One	C, W, $Z^{(6, 7)}$	<0.5% HCl	>60%	Complies	
25	One	C, W, $Z^{(6, 7)}$	<0.5% HCl	>60%	Complies	

Nominal csa of conductor (mm^2)	Core construction (See note 1)	BS 6387 (See notes 2 - 4)	BS EN 50267-2-1	BS EN 61034-2	IEC 60331-21 (See note 9)	LPCB Ref. No.
35	One	C, W, Z[6, 7]	<0.5% HCl	>60%	Complies	
50	One	C, W, Z[6, 7]	<0.5% HCl	>60%	Complies	
70	One	C[7]	<0.5% HCl	>60%	Complies	
95	One	C[7]	<0.5% HCl	>60%	Complies	
120	One	C[7]	<0.5% HCl	>60%	Complies	
150	One	C[7]	<0.5% HCl	>60%	Complies	
185	One	C[7]	<0.5% HCl	>60%	Complies	
240	One	C[7]	<0.5% HCl	>60%	Complies	
300	One	C[7]	<0.5% HCl	>60%	Complies	
400	One	Complies[8]	<0.5% HCl	>60%	Complies	
500	One	Complies[8]	<0.5% HCl	>60%	Complies	
630	One	Complies[8]	<0.5% HCl	>60%	Complies	

Uo/U 600/1000V

Notes:
1) Stranded conductor only.
2) Clauses 8 (Bending) and 9.1 & 9.2 (Impact) cannot be conducted due to the calbe having only one core.
3) These cables also met category C, W, Z when tested for voltage rating 600/1000V which is not recognised by BS 6387.
4) Where a single cable is fitted in a conduit, only phase to earth voltage was applied.
5) To satisfy the requirement of BS 6387, testing for C, W & Z.categories were conducted using a 20mm stainless steel conduit as the other metallic element.
6) To satisfy the requirement of BS 6387, testing for W & Z categories were conducted using a 20mm stainless steel conduit as the other metallic element.
7) To satisfy the requirement of BS 6387, testing for C category was conducted using a 38mm stainless steel conduit as the other metallic element.
8) Only Clause 10 of BS 6387 was conducted.
9) These cables met the requirements of IEC 60331-21: 1999 when tested at a temperature of 750°C and at a voltage rating of 600V.

Draka UK Limited

Chickenhall Lane, Eastleigh, Hants SO50 6YU, United Kingdom
Tel: 01332 345431 • Fax: 01332 331237
E-mail: cableuk@draka.com • Website: www.drakauk.com

Certificate No: 1134a to BS 7629-1: 2015 (STANDARD 60), BS 6387: 2013 (C,W,Z), EN 50200: 2015 Class PH120, EN 50200: 2015 Annex E and BS 5839-1: 2013 (Clause 26.2d Standard)

FT30

Nominal csa of conductor (mm^2)	Core Construction (excluding drain wire & earth)	BS 7629-1	BS 6387	EN 50200	EN 50200 (Annex E)	EN 5839-1 (clause 26.2)	LPCB Ref. No.
1.5	2, 3 & 4	STANDARD 60	C,W,Z	PH120	30min	Standard	1134a/01
2.5	2, 3 & 4	STANDARD 60	C,W,Z	PH120	30min	Standard	
4.0	2, 3 & 4	STANDARD 60	C,W,Z	PH120	30min	Standard	

A copy of the certificate, confirming the full scope of approval including notes relating to the superscript references in the above table, may be viewed online by clicking on the product name in the associated entry on www.RedBookLive.com

Certificate No: 1134c to BS 6387:2013 and IEC 60331-21: 1999

FT SIFER 950i

Nominal csa of conductor (mm^2)	Core construction	BS 6387	IEC 60331-21	LPCB Ref. No.
16	One	C, W, Z	Complies	1134c/01
25	One	C, W, Z	Complies	
35	One	C, W, Z	Complies	
50	One	C, W, Z	Complies	
70	One	C, W, Z	Complies	
95	One	C, W, Z	Complies	

Nominal csa of conductor (mm^2)	Core construction	BS 6387	IEC 60331-21	LPCB Ref. No.
120	One	C	Complies	
150	One	C	Complies	
185	One	-	Complies	
240	One	-	Complies	
300	One	-	Complies	
400	One	-	Complies	
500	One	-	Complies	
630	One	-	Complies	

Uo/U 600/1000V

Notes:
1) Stranded conductor only.
2) Where a single cable is fitted in a conduit, only phase to earth voltage was applied.
3) To satisfy the requirement of BS 6387, testing for C, W & Z categories was conducted using a 20mm stainless steel conduit as the other metallic element.
4) To satisfy the requirement of BS 6387, testing for W & Z categories was conducted using a 20mm stainless steel conduit as the other metallic element.
5) To satisfy the requirement of BS 6387, testing for C category was conducted using a 38mm stainless steel conduit as the other metallic element.
6) The FT SIFER 950i cables met the requirements of IEC 60331-21: 1999 when tested at a temperature of 950ºC for a duration of 90mins + 15mins cool down, at a voltage rating of 600V.

A copy of the certificate, confirming the full scope of approval including notes relating to the superscript references in the above table, may be viewed online by clicking on the certificate link in the associated entry on www.RedBookLive.com

Certificate No: 1134f to BS 6387:2013 CWZ EN 61034-2:2005+A1:2013 EN 60754-1:2014

FTP

Nominal csa of conductor (mm^2)	Core Construction (excluding drain wire and earth)	BS 6387	EN 61034-2	EN 60754-1 (outer covering)	LPCB Ref. No.
70	4	CWZ	>60%	<0.5% HCl	1134f/01
95	2, 3 & 4	CWZ	>60%	<0.5% HCl	
120	2, 3 & 4	CWZ	>60%	<0.5% HCl	
150	2, 3 & 4	CWZ	>60%	<0.5% HCl	
185	2, 3 & 4	CWZ	>60%	<0.5% HCl	
240	2, 3 & 4	CWZ	>60%	<0.5% HCl	
300	2, 3 & 4	CWZ	>60%	<0.5% HCl	
400	2, 3 & 4	CWZ	>60%	<0.5% HCl	

A copy of the certificate, confirming the full scope of approval including notes relating to the superscript references in the above table, may be viewed online by clicking on the product name in the associated entry on www.RedBookLive.com

Certificate No: 1134e to BS 6387:2013 CWZ EN 61034-2:2005+A1:2013 EN 60754-1:2014

FTP

Nominal csa of conductor (mm^2)	Core Construction	BS 6387	EN 61034-2	EN 60754-1 (outer covering)	LPCB Ref. No.
1.5	2, 3 & 4	CWZ	>60%	<0.5% HCl	1134e/02
2.5	2, 3, & 4	CWZ	>60%	<0.5% HCl	
4.0	2, 3 & 4	CWZ	>60%	<0.5% HCl	
6.0	2, 3 & 4	CWZ	>60%	<0.5% HCl	
10	2, 3 & 4	CWZ	>60%	<0.5% HCl	
16	2, 3 & 4	CWZ	>60%	<0.5% HCl	
25	2, 3 & 4	CWZ	>60%	<0.5% HCl	
35	2, 3 & 4	CWZ	>60%	<0.5% HCl	
50	2, 3 & 4	CWZ	>60%	<0.5% HCl	
70	2 & 3	CWZ	>60%	<0.5% HCl	

A copy of the certificate, confirming the full scope of approval including notes relating to the superscript references in the above table, may be viewed online by clicking on the product name in the associated entry on www.RedBookLive.com

Certificate No: 1134b to BS 7629-1:2015 (ENHANCED 120) BS 6387:2013 (CWZ) EN 50200:2015 (Class PH120) BS 8434-2:2003+A2:2009 (120 mins) BS 5839-1:2013 (Clause 26.2e Enhanced)

FT120

Nominal csa of conductor (mm^2)	Core Construction (excluding drain wire and earth)	BS 7629-1	BS 6387	EN 50200	BS 8434-2	BS 5839-1 Clause 26.2	LPCB Ref. No.
1.5	2, 3 & 4	ENHANCED 120	C,W,Z	PH120	120min	Enhanced	1134b/01
2.5	2, 3 & 4	ENHANCED 120	C,W,Z	PH120	120min	Enhanced	
4.0	2, 3 & 4	ENHANCED 120	C,W,Z	PH120	120min	Enhanced	

A copy of the certificate, confirming the full scope of approval including notes relating to the superscript references in the above table, may be viewed online by clicking on the product name in the associated entry on www.RedBookLive.com

Certificate No: 1134g to BS 6387:2013 (Category CWZ), EN 60754-1: 2014, EN 61034-2: 2005 and IEC 60331-21: 1999

FT SIFER 950i OHLS

Nominal csa of conductor (mm^2)	Core Construction	BS 6387	EN 60754-1	EN 61034-2	IEC 60331-21	LPCB Ref. No.
1.5	One	C, W, Z	<0.5% HCl	>60%	Complies	1134g/01
2.5	One	C, W, Z	<0.5% HCl	>60%	Complies	
4.0	One	C, W, Z	<0.5% HCl	>60%	Complies	
6.0	One	C, W, Z	<0.5% HCl	>60%	Complies	
10	One	C, W, Z	<0.5% HCl	>60%	Complies	

A copy of the certificate, confirming the full scope of approval including notes relating to the superscript references in the above table, may be viewed online by clicking on the product name in the associated entry on www.RedBookLive.com

Certificate No: 1134d to BS 8491: 2008, EN 60754-1: 2014 and BS EN 61034-2: 2005

FTP120

Nominal csa of conductor (mm^2)	Core Construction	BS 8491	EN 60754-1	BS EN 61034-2	LPCB Ref. No.
2.5	7	120 min	<0.5% HCl	>60%	1134d/01
4	2, 3 & 4	120 min	<0.5% HCl	>60%	
6.0	2, 3 & 4	120 min	<0.5% HCl	>60%	
10	2, 3 & 4	120 min	<0.5% HCl	>60%	
16	2, 3 & 4	120 min	<0.5% HCl	>60%	
25	2, 3 & 4	120 min	<0.5% HCl	>60%	
35	2, 3 & 4	120 min	<0.5% HCl	>60%	
50	2, 3 & 4	120 min	<0.5% HCl	>60%	
70	2 & 3	120 min	<0.5% HCl	>60%	
70	4	120 min	<0.5% HCl	>60%	1134d/02
95	2 , 3 & 4	120 min	<0.5% HCl	>60%	
120	2, 3 & 4	120 min	<0.5% HCl	>60%	
150	2, 3 & 4	120 min	<0.5% HCl	>60%	
185	2, 3 & 4	120 min	<0.5% HCl	>60%	
240	2, 3 & 4	120 min	<0.5% HCl	>60%	
300	2, 3 & 4	120 min	<0.5% HCl	>60%	
400	2, 3 & 4	120 min	<0.5% HCl	>60%	

A copy of the certificate, confirming the full scope of approval including notes relating to the superscript references in the above table, may be viewed online by clicking on the product name in the associated entry on www.RedBookLive.com

Certificate No: 1134h to BS 6387:2013 (Category CWZ), EN 60754-1:2014 and IEC 60331-21:1999

FT SIFER 950s

Nominal csa of conductor (mm^2)	Core Construction	BS 6387	EN 60754-1 (outer covering)	IEC 60331-21	LPCB Ref. No.
1.0	One	C W Z	<0.5% HCl	Complies	1134h/01
1.5	One	C W Z	<0.5% HCl	Complies	
2.5	One	C W Z	<0.5% HCl	Complies	
4.0	One	C W Z	<0.5% HCl	Complies	
6.0	One	C W Z	<0.5% HCl	Complies	
10	One	C W Z	<0.5% HCl	Complies	
16	One	C W Z	<0.5% HCl	Complies	
25	One	C W Z	<0.5% HCl	Complies	
35	One	C W Z	<0.5% HCl	Complies	

Nominal csa of conductor (mm^2)	Core Construction	BS 6387	EN 60754-1 (outer covering)	IEC 60331-21	LPCB Ref. No.
50	One	C	<0.5% HCl	Complies	
70	One	C	<0.5% HCl	Complies	
95	One	C	<0.5% HCl	Complies	
120	One	C	<0.5% HCl	Complies	
150	One	C	<0.5% HCl	Complies	
185	One	C	<0.5% HCl	Complies	
240	One	C	<0.5% HCl	Complies	
300	One	-	<0.5% HCl	Complies	
400	One	-	<0.5% HCl	Complies	
500	One	-	<0.5% HCl	Complies	
630	One	-	<0.5% HCl	Complies	
800	One	-	<0.5% HCl	Complies	
1000	One	-	<0.5% HCl	Complies	

A copy of the certificate, confirming the full scope of approval including notes relating to the superscript references in the above table, may be viewed online by clicking on the product name in the associated entry on www.RedBookLive.com

Certificate No: 1134l to BS 7629-1:2015 (Enhanced 120) BS 6387:2013 (CWZ) EN 50200:2015 (Class PH120) BS 8434-2:2003+A2:2009 (120 mins) BS 5839-1:2013 (Clause 26.2e Enhanced)

FT 120 Saffire

Nominal csa of conductor (mm^2)	Core Construction (excluding drain wire and earth)	BS 7629-1	BS 6387	EN 50200	BS 8434-2	BS 5839-1 Clause 26.2	LPCB Ref. No.
1.5	2	Enhanced 120	C, W, Z	PH120	120 min	Enhanced	1134l/01
2.5	2	Enhanced 120	C, W, Z	PH120	120 min	Enhanced	

A copy of the certificate, confirming the full scope of approval including notes relating to the superscript references in the above table, may be viewed online by clicking on the product name in the associated entry on www.RedBookLive.com

Certificate No: 1134j to BS 7629-1:2015 (STANDARD 60) BS 6387:2013 (CWZ) EN 50200:2015 (Class PH120) EN 50200:2015 Annex E (30 mins) BS 5839-1:2013 (Clause 26.2d Standard)

FT30 SAFFIRE

Nominal csa of conductor (mm^2)	Core Construction (excluding drain wire and earth)	BS 7629-1	BS 6387	EN 50200	EN 50200 Annex E	BS 5839-1 Clause 26.2d	LPCB Ref. No.
1.5	2, 3 & 4	Standard 60	C, W, Z	PH120	30min	Standard	1134j/01
2.5	2, 3 & 4	Standard 60	C, W, Z	PH120	30min	Standard	
4.0	2, 3 & 4	Standard 60	C, W, Z	PH120	30 min	Standard	

A copy of the certificate, confirming the full scope of approval including notes relating to the superscript references in the above table, may be viewed online by clicking on the product name in the associated entry on www.RedBookLive.com

Dubai Cable Company (Private) Limited, Trading as Ducab

Old Abu Dhabi Road, Jebel Ali, Dubai, United Arab Emirates
Tel: +9714 815 8888 • Fax: +9714 815 8433
E-mail: ducab@ducab.com • Website: www.ducab.com, Sales office: PO Box 11529, Dubai, UAE

Certificate No: 781a to BS 7846:2015 Cat F2

Ducab Flam BICC 4

Nominal csa of conductor (mm^2)	Core Construction (excluding drain wire and earth)	BS 7846	LPCB Ref. No.
1.5	2, 3, 4, 5, 7, 12, 19, 27 & 37	F2	781a/01
2.5	2, 3, 4, 5, 7, 12, 19, 27 & 37	F2	
4.0	2, 3, 4, 5, 7, 12, 19, 27 & 37	F2	
6.0	2, 3 & 4	F2	

Nominal csa of conductor (mm^2)	Core Construction (excluding drain wire and earth)	BS 7846	LPCB Ref. No.
10	2, 3 & 4	F2	
16	2, 3 & 4	F2	
25	2, 3 & 4	F2	
35	2, 3 & 4	F2	

A copy of the certificate, confirming the full scope of approval including notes relating to the superscript references in the above table, may be viewed online by clicking on the product name in the associated entry on www.RedBookLive.com

Dubai Cable Company (Private) Limited, Trading as Ducab

Ducab-M1, Plot No. - 2D12,3D2,4D2,5D2, Sector - M41, Industrial City of Abu Dhabi-1, Mussafah, Abu Dhabi, United Arab Emirates
Tel: +9714 815 8888 • Fax: +9714 815 8433
E-mail: ducab@ducab.com • Website: www.ducab.com

Certificate No: 782a to BS 7846: 2015 Cat F2

Ducab Flam BICC 4

Nominal csa of conductor (mm^2)	Core Construction	BS 7846	LPCB Ref. No.
16	2, 3 & 4	F2	782a/01
25	2, 3 & 4	F2	
35	2, 3 & 4	F2	
50	2, 3 & 4	F2	
70	2, 3 & 4	F2	
95	2, 3 & 4	F2	
120	2, 3 & 4	F2	
150	2, 3 & 4	F2	
185	2, 3 & 4	F2	
240	2, 3 & 4	F2	
300	2, 3 & 4	F2	
400	2, 3 & 4	F2	

A copy of the certificate, confirming the full scope of approval including notes relating to the superscript references in the above table, may be viewed online by clicking on the certificate link in the associated entry on www.RedBookLive.com

Certificate No: 782f to BS 6387:2013 (Category CWZ) EN 60754-1:2014 EN 61034-2:2005 IEC 60331-21:1999

Ducab Flam BICC 3

Nominal csa of conductor (mm^2)	Core Construction (excluding drain wire and earth)	BS 6387	EN 60754-1	EN 61034-2	IEC 60331-21	LPCB Ref. No.
1.5	One	CWZ	<0.5% HCl	>60%	Complies	782f/01
2.5	One	CWZ	<0.5% HCl	>60%	Complies	
4.0	One	CWZ	<0.5% HCl	>60%	Complies	
6.0	One	CWZ	<0.5% HCl	>60%	Complies	
10	One	CWZ	<0.5% HCl	>60%	Complies	
16	One	CWZ	<0.5% HCl	>60%	Complies	
25	One	CWZ	<0.5% HCl	>60%	Complies	
35	One	CWZ	<0.5% HCl	>60%	Complies	
50	One	CWZ	<0.5% HCl	>60%	Complies	
70	One	CWZ	<0.5% HCl	>60%	Complies	
95	One	C	<0.5% HCl	>60%	Complies	
120	One	C	<0.5% HCl	>60%	Complies	
150	One	C	<0.5% HCl	>60%	Complies	

Nominal csa of conductor (mm^2)	Core Construction (excluding drain wire and earth)	BS 6387	EN 60754-1	EN 61034-2	IEC 60331-21	LPCB Ref. No.
185	One	C	<0.5% HCl	>60%	Complies	
240	One	C	<0.5% HCl	>60%	Complies	
300	One	C	<0.5% HCl	>60%	Complies	
400	One	C	<0.5% HCl	>60%	Complies	
500	One	-	<0.5% HCl	>60%	Complies	
630	One	-	<0.5% HCl	>60%	Complies	
800	One	-	<0.5% HCl	>60%	Complies	
1000	One	-	<0.5% HCl	>60%	Complies	

A copy of the certificate, confirming the full scope of approval including notes relating to the superscript references in the above table, may be viewed online by clicking on the product name in the associated entry on www.RedBookLive.com

Certificate No: 782c to BS 6387:2013 (CWZ) EN 60754-1:2014 EN 61034-2:2005+A1:2013 IEC 60331-21:1999 IEC 60332-3-24:2009 BS 8434-2:2003+A2:2009 (120 mins) EN 50200:2015 (Class PH120)

Ducab Flam BICC 1

Nominal csa of conductor (mm^2)	Core Construction	BS 6387	BS 8434-2	EN 50200	EN 60754-1	EN 61034-2	IEC 60332-3-24	IEC 60331-21	LPCB Ref. No.
1.5	One	CWZ	120 mins	PH120	<0.5% HCl	>60%	-	Complies	782c/01
2.5	One	CWZ	120 mins	PH120	<0.5% HCl	>60%	-	Complies	
4.0	One	CWZ	120 mins	PH120	<0.5% HCl	>60%	-	Complies	
6.0	One	CWZ	120 mins	PH120	<0.5% HCl	>60%	-	Complies	
10	One	CWZ	120 mins	PH120	<0.5% HCl	>60%	Complies	Complies	
16	One	CWZ	120 mins	PH120	<0.5% HCl	>60%	Complies	Complies	
25	One	CWZ	120 mins	PH120	<0.5% HCl	>60%	Complies	Complies	
35	One	CWZ	120 mins	PH120	<0.5% HCl	>60%	Complies	Complies	
50	One	CWZ	120 mins	PH120	<0.5% HCl	>60%	Complies	Complies	
70	One	CWZ	120 mins	PH120	<0.5% HCl	>60%	Complies	Complies	
95	One	CWZ	120 mins	PH120	<0.5% HCl	>60%	Complies	Complies	
120	One	C	-	-	<0.5% HCl	>60%	Complies	Complies	
150	One	C	-	-	<0.5% HCl	>60%	Complies	Complies	
185	One	C	-	-	<0.5% HCl	>60%	Complies	Complies	
240	One	C	-	-	<0.5% HCl	>60%	Complies	Complies	
300	One	C	-	-	<0.5% HCl	>60%	Complies	Complies	
400	One	C	-	-	<0.5% HCl	>60%	Complies	Complies	
500	One	-	-	-	<0.5% HCl	>60%	Complies	Complies	
630	One	-	-	-	<0.5% HCl	>60%	Complies	Complies	
800	One	-	-	-	<0.5% HCl	>60%	Complies	Complies	
1000	One	-	-	-	<0.5% HCl	>60%	Complies	Complies	

A copy of the certificate, confirming the full scope of approval including notes relating to the superscript references in the above table, may be viewed online by clicking on the product name in the associated entry on www.RedBookLive.com

Certificate No: 782g to BS 7846:2015 Cat F2 & F120
BS 8519:2010 Clause 11 Cat 3

Ducab Flam BICC 6

Nominal csa of conductor (mm^2)	Core Construction	BS 7846	BS 8519	LPCB Ref. No.
16	2, 3 & 4	F2 & F120	Cat 3	782g/01
25	2, 3 & 4	F2 & F120	Cat 3	
35	2, 3 & 4	F2 & F120	Cat 3	
50	2, 3 & 4	F2 & F120	Cat 3	
70	2, 3 & 4	F2 & F120	Cat 3	
95	2, 3 & 4	F2 & F120	Cat 3	
120	2, 3 & 4	F2 & F120	Cat 3	
150	2, 3 & 4	F2 & F120	Cat 3	
185	2, 3 & 4	F2 & F120	Cat 3	
240	2, 3 & 4	F2 & F120	Cat 3	
300	2, 3 & 4	F2 & F120	Cat 3	
400	2, 3 & 4	F2 & F120	Cat 3	

A copy of the certificate, confirming the full scope of approval including notes relating to the superscript references in the above table, may be viewed online by clicking on the product name in the associated entry on www.RedBookLive.com

Certificate No: 782l to IEC 60331-21:1999 EN 61034-2:2005+A1:2013 EN 60754-1:2014

Ducab FlamBICC 4 AL Armr

Nominal csa of conductor (mm^2)	Core Construction	IEC 60331-21	EN 60754-1	EN 61034-2	LPCB Ref. No.
35	1	Complies	<0.5% HCl	>60%	782l/01
50	1	Complies	<0.5% HCl	>60%	
70	1	Complies	<0.5% HCl	>60%	
95	1	Complies	<0.5% HCl	>60%	
120	1	Complies	<0.5% HCl	>60%	
150	1	Complies	<0.5% HCl	>60%	
185	1	Complies	<0.5% HCl	>60%	
240	1	Complies	<0.5% HCl	>60%	
300	1	Complies	<0.5% HCl	>60%	
400	1	Complies	<0.5% HCl	>60%	
500	1	Complies	<0.5% HCl	>60%	
630	1	Complies	<0.5% HCl	>60%	

A copy of the certificate, confirming the full scope of approval including notes relating to the superscript references in the above table, may be viewed online by clicking on the product name in the associated entry on www.RedBookLive.com

Certificate No: 782m to BS 8592:2016 BS 6387:2013 Category CWZ EN 61034-2:2005+A1:2013 IEC 60331-21:1999 BS 8434-2:2003+A2:2009 (120 mins) EN 50200:2015 (Class PH120) EN 50200:2015 Annex E (30 mins) IEC 60332-3-24:2009 EN 60754-1:2014 IEC 60331-3:2009 EN 60332-1-2:2004+A1:2015

Ducab Flam BICC 1 BS 8592

Nominal csa of conductor (mm^2)	Core Construction	BS 8592	BS 6387	BS 8434-2	EN 50200	IEC 60332-3-24	IEC 60331-21	LPCB Ref. No.
1.5	One	Complies	CWZ	120 mins	PH120 & Annex E	-	Complies	782m/01
2.5	One	Complies	CWZ	120 mins	PH120 & Annex E	-	Complies	
4.0	One	Complies	CWZ	120 mins	PH120 & Annex E	-	Complies	
6.0	One	Complies	CWZ	120 mins	PH120 & Annex E	-	Complies	
10	One	Complies	CWZ	120 mins	PH120 & Annex E	Complies	Complies	
16	One	Complies	CWZ	120 mins	PH120 & Annex E	Complies	Complies	
25	One	Complies	CWZ	120 mins	PH120 & Annex E	Complies	Complies	
35	One	Complies	CWZ	120 mins	PH120 & Annex E	Complies	Complies	

Nominal csa of conductor (mm^2)	Core Construction	BS 8592	BS 6387	BS 8434-2	EN 50200	IEC 60332-3-24	IEC 60331-21	LPCB Ref. No.
50	One	Complies	CWZ	120 mins	PH120 & Annex E	Complies	Complies	
70	One	Complies	CWZ	120 mins	PH120 & Annex E	Complies	Complies	

A copy of the certificate, confirming the full scope of approval including notes relating to the superscript references in the above table, may be viewed online by clicking on the product name in the associated entry on www.RedBookLive.com

Certificate No: 782n to IEC 60331-21:1999 EN 61034-2:2005+A2:2020 EN 60754-1:2014 BS 6387:2013 (Category CWZ)

Ducab FlamBICC 3 Multicore

Nominal csa of conductor (mm^2)	Core Construction (excluding drain wire and earth)	BS 6387	IEC 60331-21	EN 61034-2	EN 60754-1	IEC 60332-3-24	LPCB Ref. No.
25	2, 3 & 4	C, W, Z	(90+15) minutes	>60%	<0.5% HCl	Complies	782n/01
35	2, 3 & 4	C, W, Z	(90+15) minutes	>60%	<0.5% HCl	Complies	
50	2, 3 & 4	C, W, Z	(90+15) minutes	>60%	<0.5% HCl	Complies	
70	2, 3 & 4	C, W, Z	(90+15) minutes	>60%	<0.5% HCl	Complies	
95	2, 3 & 4	C, W, Z	(90+15) minutes	>60%	<0.5% HCl	Complies	
120	2, 3 & 4	C, W, Z	(90+15) minutes	>60%	<0.5% HCl	Complies	
150	2, 3 & 4	C, W, Z	(90+15) minutes	>60%	<0.5% HCl	Complies	
185	2, 3 & 4	C, W, Z	(90+15) minutes	>60%	<0.5% HCl	Complies	
240	2, 3 & 4	C, W, Z	(90+15) minutes	>60%	<0.5% HCl	Complies	
300	2, 3 & 4	C, W, Z	(90+15) minutes	>60%	<0.5% HCl	Complies	
400	2, 3 & 4	C, W, Z	(90+15) minutes	>60%	<0.5% HCl	Complies	

A copy of the certificate, confirming the full scope of approval including notes relating to the superscript references in the above table, may be viewed online by clicking on the product name in the associated entry on www.RedBookLive.com

Dubai Cable Company (Private) Limited, Trading as Ducab

Ducab-M2, Plot No. - J6 14-15-16, Sector - M41, Industrial City of Abu Dhabi-1, Mussafah, Abu Dhabi, United Arab Emirates
Tel: +9714 815 8888 • Fax: +9714 815 8433
E-mail: ducab@ducab.com • Website: www.ducab.com, Sales office: PO Box 11529, Dubai, UAE

Certificate No: 949a to BS 7846:2015 Cat F2

Ducab Flam BICC 4

Nominal csa of conductor (mm^2)	Core Construction (excluding drain wire and earth)	BS 7846	LPCB Ref. No.
1.5	2, 3 & 4	F2	949a/01
2.5	2, 3 & 4	F2	
4.0	2, 3 & 4	F2	
6.0	2, 3 & 4	F2	
10	2, 3 & 4	F2	

A copy of the certificate, confirming the full scope of approval including notes relating to the superscript references in the above table, may be viewed online by clicking on the product name in the associated entry on www.RedBookLive.com

Certificate No: 949c to BS 6387:2013 CWZ
IEC 60331-21:1999
EN 61034-2:2005+A2:2020
EN 60754-1:2014
IEC 60332-3-24:2009

FlamBICC 3 Multicore

Nominal csa of conductor (mm^2)	Core Construction (excluding drain wire and earth)	BS 6387	IEC 60331-21	EN 61034-2	EN 60754-1	IEC 60332-3-24	LPCB Ref. No.
1.0	2, 3 & 4	C, W, Z	(90+15) minutes	>60%	<0.5% HCl	Complies	949c/01
1.5	2, 3 & 4	C, W, Z	(90+15) minutes	>60%	<0.5% HCl	Complies	
2.5	2, 3 & 4	C, W, Z	(90+15) minutes	>60%	<0.5% HCl	Complies	
4.0	2, 3 & 4	C, W, Z	(90+15) minutes	>60%	<0.5% HCl	Complies	
6.0	2, 3 & 4	C, W, Z	(90+15) minutes	>60%	<0.5% HCl	Complies	
10	2, 3 & 4	C, W, Z	(90+15) minutes	>60%	<0.5% HCl	Complies	
16	2, 3 & 4	C, W, Z	(90+15) minutes	>60%	<0.5% HCl	Complies	

A copy of the certificate, confirming the full scope of approval including notes relating to the superscript references in the above table, may be viewed online by clicking on the product name in the associated entry on www.RedBookLive.com

Certificate No: 949d to BS 7629-1:2015 Standard 60 BS 6387:2013 (Category CWZ) EN 50200:2015 (Class PH120) BS5839-1:2013 (Clause 26.2d Standard)

Ducab Flam BICC 2a Standard

Nominal csa of conductor (mm^2)	Core Construction	BS 7629-1	BS 6387	EN 50200	EN 50200 Annex E	BS 5839-1	LPCB Ref. No.
1.5	2, 3 & 4	Standard 60	C,W,Z	PH120	30 mins	Standard 26.2d	949d/01
2.5	2, 3 & 4	Standard 60	C,W,Z	PH120	30 mins	Standard 26.2d	
4.0	2, 3 & 4	Standard 60	C,W,Z	PH120	30 mins	Standard 26.2d	

A copy of the certificate, confirming the full scope of approval including notes relating to the superscript references in the above table, may be viewed online by clicking on the product name in the associated entry on www.RedBookLive.com

Certificate No: 949e to BS 7629-1:2015 Enhanced BS 6387:2013 (Category CWZ) EN 50200:2015 (Class PH120) BS 8434-2:2003+A2:2009 (120 mins) BS 5839-1:2013 (Clause 26.2e Enhanced) BS 8519:2010 Cat 3

Ducab Flam BICC 2a Enhanced

Nominal csa of conductor (mm^2)	Core Construction	BS 7629-1	BS 6387	EN 50200	BS 8519	BS 8434-2	BS 5839-1	LPCB Ref. No.
1.5	2, 3 & 4	Enhanced 120	C,W,Z	PH120	Cat 3	120 mins	Enhanced 26.2e	949e/01
2.5	2, 3 & 4	Enhanced 120	C,W,Z	PH120	Cat 3	120 mins	Enhanced 26.2e	
4.0	2, 3 & 4	Enhanced 120	C,W,Z	PH120	Cat 3	120 mins	Enhanced 26.2e	

A copy of the certificate, confirming the full scope of approval including notes relating to the superscript references in the above table, may be viewed online by clicking on the product name in the associated entry on www.RedBookLive.com

Certificate No: 949b to BS 7846:2015 Cat F2 & F120
BS 8519:2010 Clause 11 Cat 3

Ducab Flam BICC 6

Nominal csa of conductor (mm^2)	Core Construction	BS 7846	BS 8519	LPCB Ref. No.
4.0	2, 3 & 4	F2 & F120	Cat 3	949b/01
6.0	2, 3 & 4	F2 & F120	Cat 3	
10	2, 3 & 4	F2 & F120	Cat 3	

A copy of the certificate, confirming the full scope of approval including notes relating to the superscript references in the above table, may be viewed online by clicking on the product name in the associated entry on www.RedBookLive.com

El Sewedy Cables

10th of Ramadan City, Zone A3 44629, Egypt
Tel: +002 015 411218 • Fax: +002 015 411215
E-mail: Huithem@elsewedy.com • Website: www.elsewedycables.com

Certificate No: 1290a to BS 7846:2015 (Category F2)
EN 50200:2015 (Class PH60)
EN 50200:2015 Annex E (30 minutes)
BS 5839-1:2017 (Clause 26.2d Standard)

FIRE GUARD 1000

Nominal csa of conductor (mm^2)	Core Construction	BS 7846	EN 50200	BS 5839-1	LPCB Ref. No.
1.5	2, 3, 4 & 5	F2	PH60 + Annex E	Clause 26.2d	1290a/01
2.5	2, 3, 4 & 5	F2	PH60 + Annex E	Clause 26.2d	
4.0	2, 3, 4 & 5	F2	PH60 + Annex E	Clause 26.2d	
6.0	2, 3, 4 & 5	F2	-	-	
10	2, 3, 4 & 5	F2	-	-	
16	2, 3, 4 & 5	F2	-	-	

A copy of the certificate, confirming the full scope of approval including notes relating to the superscript references in the above table, may be viewed online by clicking on the product name in the associated entry on www.RedBookLive.com

El Sewedy Cables - Egypt (Egytech Cables)

Plot No.16 Industrial Zone A3, 10th of Ramadan city, Cairo 44629, Egypt
Tel: +002 015 411350 • Fax: +002 015 411366
E-mail: info@elswedy.com • Website: www.elswedy.com

Certificate No: 1285a to BS 7846:2015 (Category F2 & F120)

FIRE GUARD 1000 PLUS

Nominal csa of conductor (mm^2) of conductor (mm^2)	Core Construction	BS 7846	LPCB Ref. No.
25	2, 3, 4 & 5	F2 & F120	1285a/01
35	2, 3, 4 & 5	F2 & F120	
50	2, 3, 4 & 5	F2 & F120	
70	2, 3, 4 & 5	F2 & F120	
95	2, 3 & 4	F2 & F120	
120	2, 3 & 4	F2 & F120	
150	2, 3 & 4	F2 & F120	
185	2, 3 & 4	F2 & F120	
240	2, 3 & 4	F2 & F120	
300	2, 3 & 4	F2 & F120	
400	2, 3 & 4	F2 & F120	

A copy of the certificate, confirming the full scope of approval including notes relating to the superscript references in the above table, may be viewed online by clicking on the product name in the associated entry on www.RedBookLive.com

Certificate No: 1285b to BS 8592:2016

FIRE GUARD 10

Nominal csa of conductor (mm^2)	Core Construction	BS 8592	LPCB Ref. No.
25	one	Complies	1285b/01
35	one	Complies	
50	one	Complies	
70	one	Complies	

A copy of the certificate, confirming the full scope of approval including notes relating to the superscript references in the above table, may be viewed online by clicking on the product name in the associated entry on www.RedBookLive.com

Certificate No: 1285c to BS 6387:2013 (Category CWZ)
IEC 60331-21:1999
EN 60754-1:2014
EN 61034-2:2005+A2:2020

Fire Guard 100

Nominal csa of conductor (mm^2)	Core Construction	BS 6387	EN 61034-2	EN 60754-1	IEC 60331-21	LPCB Ref. No.
25	One	C, W, Z	>60%	0.5% HCl	(90+15) minutes	1285c/01
35	One	C, W, Z	>60%	0.5% HCl	(90+15) minutes	
50	One	C, W, Z	>60%	0.5% HCl	(90+15) minutes	
70	One	C, W, Z	>60%	0.5% HCl	(90+15) minutes	
95	One	C, W, Z	>60%	0.5% HCl	(90+15) minutes	
120	One	C	>60%	0.5% HCl	(90+15) minutes	
150	One	C	>60%	0.5% HCl	(90+15) minutes	
185	One	C	>60%	0.5% HCl	(90+15) minutes	
240	One	C	>60%	0.5% HCl	(90+15) minutes	
300	One	C	>60%	0.5% HCl	(90+15) minutes	
400	One	C	>60%	0.5% HCl	(90+15) minutes	
500	One	C	>60%	0.5% HCl	(90+15) minutes	
630	One	-	>60%	0.5% HCl	(90+15) minutes	

A copy of the certificate, confirming the full scope of approval including notes relating to the superscript references in the above table, may be viewed online by clicking on the product name in the associated entry on www.RedBookLive.com

ELSEWEDY Cables - KSA

Yanbu,, Light Industry Area, Al Razi St., Yanbu 41912,, Saudi Arabia 31670,, Kingdom of Saudi Arabia
Tel: +966(0)14 3570166 • Fax: + 966 (0)14 357 2223
E-mail: ksa@elsewedy.com • Website: www.elsewedyelectric.com

Certificate No: 1716a to BS 7846:2015 (Category F2 & F120)

Fire Guard 1000 Plus

Nominal csa of conductor (mm^2)	Core Construction	BS 7846	LPCB Ref. No.
10	2, 3, 4 & 5	F2 & F120	1716a/01
16	2, 3, 4 & 5	F2 & F120	
25	2, 3, 4 & 5	F2 & F120	
35	2, 3, 4 & 5	F2 & F120	
50	2, 3, 4 & 5	F2 & F120	
70	2, 3, 4 & 5	F2 & F120	
95	2, 3 & 4	F2 & F120	
120	2, 3 & 4	F2 & F120	
150	2, 3 & 4	F2 & F120	

Nominal csa of conductor (mm^2)	Core Construction	BS 7846	LPCB Ref. No.
185	2, 3 & 4	F2 & F120	
240	2, 3 & 4	F2 & F120	
300	2, 3 & 4	F2 & F120	
400	2, 3 & 4	F2 & F120	

A copy of the certificate, confirming the full scope of approval including notes relating to the superscript references in the above table, may be viewed online by clicking on the product name in the associated entry on www.RedBookLive.com

Certificate No: 1716b to BS 8592:2016

Fire Guard 100

Nominal csa of conductor (mm^2)	Core Construction	BS 8592	LPCB Ref. No.
10	one	Complies	1716b/01
16	one	Complies	
25	one	Complies	
35	one	Complies	
50	one	Complies	
70	one	Complies	

A copy of the certificate, confirming the full scope of approval including notes relating to the superscript references in the above table, may be viewed online by clicking on the product name in the associated entry on www.RedBookLive.com

Erse Kablo Sanayi Ticaret A.S.

Halil Rifat Pasa Mh. Yuzer Havuz Sk,, No: 5-9 Sisli, 34384, Istanbul, Turkey
Tel: +90 212 737 3700
E-mail: info@ersekablo.com.tr • Website: www.ersekablo.com.tr

Certificate No: 1469a to BS 7629-1:2015 (Standard 60) BS 6387:2013 (Category CWZ) BS 5839-1:2013 (Clause 26.2d Standard) EN 50200:2015 (Class PH120) EN 50200:2015 Annex E EN 60754-2:2014 EN 60332-3-22:2009

ERVITAL FIRE SAFE GOLD CABLE

Nominal csa of conductor (mm^2)	Core Construction (excluding drain wire and earth)	BS 7629-1	BS 6387	EN 50200	EN 50200 Annex E	BS 5839-1 Clause 26.2d	EN 60754-2	EN 60332-3-22	LPCB Ref. No.
1.0	2	STANDARD 60	C, W, Z	Class PH120	30 min	Standard	Complies	Complies	1469a/01
1.5	2,3 & 4	STANDARD 60	C, W, Z	Class PH120	30 min	Standard	Complies	Complies	
2.5	2,3 & 4	STANDARD 60	C, W, Z	Class PH120	30 min	Standard	Complies	Complies	
4.0	2,3 & 4	STANDARD 60	C, W, Z	Class PH120	30 min	Standard	Complies	Complies	

A copy of the certificate, confirming the full scope of approval including notes relating to the superscript references in the above table, may be viewed online by clicking on the product name in the associated entry on www.RedBookLive.com

Certificate No: 1469b to BS 6387:2013 (Category CWZ) EN 50200:2015 (Class PH120) EN 61034-2:2005+A1:2013 EN 60754-1:2014 EN 60754-2:2014 IEC 60332-3-24:2009

ERVITAL FIRE SAFE CABLE

Nominal csa of conductor (mm^2)	Core Construction (excluding drain wire and earth)	BS 6387	EN 50200	EN 60754-1	EN 60754-2	IEC 60332-3-24	LPCB Ref. No.
1.0	2	C, W, Z	PH120	<0.5% HCl	Complies	Complies	1469b/01
1.5	2, 3 & 4	C, W, Z	PH120	<0.5% HCl	Complies	Complies	
2.5	2, 3 & 4	C, W, Z	PH120	<0.5% HCl	Complies	Complies	

A copy of the certificate, confirming the full scope of approval including notes relating to the superscript references in the above table, may be viewed online by clicking on the product name in the associated entry on www.RedBookLive.com

Federal Transformers Co. LLC

PO Box 9769 Plot No 17, AR17 18, ICAD II,, Abu Dhabi 9769, United Arab Emirates
Tel: +971 25512788
E-mail: kavinraj@federalcables.com,fabio@federalcables.com, poojas@federalcables.com • Website: www.federalcables.com

Certificate No: 1693a to BS 7629-1:2015 (Standard 60) BS 6387:2013 (Category CWZ) EN 50200:2015 (Class PH120)

FEDCAB Fire Safe Electric Cable

Nominal csa of conductor (mm^2)	Core Construction	BS 7629-1	BS 6387	EN 50200	LPCB Ref. No.
1.5	2, 3 & 4	Standard 60	CWZ	PH 120	1693a/01
2.5	2, 3 & 4	Standard 60	CWZ	PH 120	
4.0	2, 3 & 4	Standard 60	CWZ	PH 120	

A copy of the certificate, confirming the full scope of approval including notes relating to the superscript references in the above table, may be viewed online by clicking on the product name in the associated entry on www.RedBookLive.com

Certificate No: 1693b to BS 7846:2015 (Category F2)

FEDCAB Fire Safe Electric Cable

Nominal csa of conductor (mm^2)	Core Construction	BS 7846	LPCB Ref. No.
1.5	2, 3 & 4	F2	1693b/01
2.5	2, 3 & 4	F2	
4.0	2, 3 & 4	F2	
6.0	2, 3 & 4	F2	
10	2, 3 & 4	F2	
16	2, 3 & 4	F2	
25	2, 3 & 4	F2	
35	2, 3 & 4	F2	
50	2, 3 & 4	F2	
70	2, 3 & 4	F2	
95	2, 3 & 4	F2	
120	2, 3 & 4	F2	
150	2, 3 & 4	F2	
185	2, 3 & 4	F2	
240	2, 3 & 4	F2	
300	2, 3 & 4	F2	

A copy of the certificate, confirming the full scope of approval including notes relating to the superscript references in the above table, may be viewed online by clicking on the product name in the associated entry on www.RedBookLive.com

Certificate No: 1693c to BS 6387:2013 (Category CWZ)
IEC 60331-21:1999
EN 60754-1:2014
EN 61034-2:2005+A2:2020
EN 60332-1-2:2004+A11:2016

FEDCAB Fire Safe Electric Cable

Nominal csa of conductor (mm^2)	Core Construction	BS 6387	EN 61034-2	EN 60754-1	IEC 60331-21	LPCB Ref. No.
1.5	One	C, W, Z	>60%	0.5% HCl	(120+15) minutes	1693c/01
2.5	One	C, W, Z	>60%	0.5% HCl	(120+15) minutes	
4.0	One	C, W, Z	>60%	0.5% HCl	(120+15) minutes	
6.0	One	C, W, Z	>60%	0.5% HCl	(120+15) minutes	
10	One	C, W, Z	>60%	0.5% HCl	(120+15) minutes	
16	One	C, W, Z	>60%	0.5% HCl	(120+15) minutes	
25	One	C, W, Z	>60%	0.5% HCl	(120+15) minutes	

Nominal csa of conductor (mm^2)	Core Construction	BS 6387	EN 61034-2	EN 60754-1	IEC 60331-21	LPCB Ref. No.
35	One	C, W, Z	>60%	0.5% HCl	(120+15) minutes	
50	One	C, W, Z	>60%	0.5% HCl	(120+15) minutes	
70	One	C, W, Z	>60%	0.5% HCl	(120+15) minutes	
95	One	C	>60%	0.5% HCl	(120+15) minutes	
120	One	C	>60%	0.5% HCl	(120+15) minutes	
150	One	C	>60%	0.5% HCl	(120+15) minutes	
185	One	C	>60%	0.5% HCl	(120+15) minutes	
240	One	C	>60%	0.5% HCl	(120+15) minutes	
300	One	C	>60%	0.5% HCl	(120+15) minutes	

A copy of the certificate, confirming the full scope of approval including notes relating to the superscript references in the above table, may be viewed online by clicking on the product name in the associated entry on www.RedBookLive.com

Firesafe

10 Sanderson Way, Marton, Blackpool, Lancashire FY4 4NB, United Kingdom
Tel: 01253 699500 • Fax: 01253 699550
E-mail: sales@firesafe.co.uk • Website: www.firesafe.co.uk

Certificate No: 682d-(cl-1) to BS 7629-1:2015 (ENHANCED 120) BS 6387:2013 (CWZ) EN 50200:2015 (Class PH120) BS 8434-2:2003 BS 5839-1:2013 (Clause 26.2 Enhanced) EN 60332-3-24 EN 60332-3-25

Zeroburn Plus

Nominal csa of conductor (mm^2)	Core Construction (excluding drain wire and earth)	BS 7629-1	BS 6387	EN 50200	BS 8434-2	BS 5839-1 Clause 26.2	LPCB Ref. No.
1.0	2	Enhanced 120	C,W,Z	Class PH120	120 min	Enhanced	682d/01
1.5	2, 3 & 4	Enhanced 120	C,W,Z	Class PH120	120 min	Enhanced	
2.5	2, 3 & 4	Enhanced 120	C,W,Z	Class PH120	120 min	Enhanced	
4.0	2, 3 & 4	Enhanced 120	C,W,Z	Class PH120	120 min	Enhanced	

A copy of the certificate, confirming the full scope of approval including notes relating to the superscript references in the above table, may be viewed online by clicking on the product name in the associated entry on www.RedBookLive.com

Certificate No: 682a-(cl-6) to BS 7629-1:2015 (STANDARD 60), BS 6387:2013 (CWZ), EN 50200:2015 (Class PH120), EN 50200:2015 Annex E (30 mins), BS 5839-1:2013 (Clause 26.2d Standard), EN 60332-3-24:2009 and EN 60332-3-25:2009

zeroburn

Nominal csa of conductor (mm^2)	Core Construction (excluding drain wire and earth)	BS 7629-1	BS 6387	EN 50200	EN 50200 Annex E	BS 5839-1 Clause 26.2	LPCB Ref. No.
1.0	2	STANDARD 60	C,W,Z	Class PH120	30 min	Standard	682a/01
1.5	2, 3 & 4	STANDARD 60	C,W,Z	Class PH120	30 min	Standard	
2.5	2, 3 & 4	STANDARD 60	C,W,Z	Class PH120	30 min	Standard	
4.0	2, 3 & 4	STANDARD 60	C,W,Z	Class PH120	30 min	Standard	

A copy of the certificate, confirming the full scope of approval including notes relating to the superscript references in the above table, may be viewed online by clicking on the product name in the associated entry on www.RedBookLive.com

Giza Cable Industries

Fourth Industrial Zone, Plot 48, 6th of October City, Giza, Governorate, Egypt
Tel: +(2010) 22188899
E-mail: madam@gc-3.com • Website: www.gc-3.com

HQ
6 Ibn Malek St, Nahda Sq, Giza 184, Egypt

Certificate No: 1676a to BS 6387:2013 (Category CWZ) IEC 60331-21:1999 EN 61034-2:2005+A2:2020 EN 60754-1:2014

Cu/Mica/LSHF cables

Nominal csa of conductor (mm^2)	Core Construction	BS 6387	EN 60754-1	EN 61034-2	IEC 60331-21	LPCB Ref. No.
1.5	One	CWZ	<0.5% HCl	>60%	(120+15) minutes	1676a/01
2.5	One	CWZ	<0.5% HCl	>60%	(120+15) minutes	
4.0	One	CWZ	<0.5% HCl	>60%	(120+15) minutes	
6.0	One	CWZ	<0.5% HCl	>60%	(120+15) minutes	
10	One	CWZ	<0.5% HCl	>60%	(120+15) minutes	
16	One	CWZ	<0.5% HCl	>60%	(120+15) minutes	
25	One	CWZ	<0.5% HCl	>60%	(120+15) minutes	
35	One	CWZ	<0.5% HCl	>60%	(120+15) minutes	
50	One	CWZ	<0.5% HCl	>60%	(120+15) minutes	
70	One	CWZ	<0.5% HCl	>60%	(120+15) minutes	
95	One	C	<0.5% HCl	>60%	(120+15) minutes	
120	One	C	<0.5% HCl	>60%	(120+15) minutes	
150	One	C	<0.5% HCl	>60%	(120+15) minutes	
185	One	C	<0.5% HCl	>60%	(120+15) minutes	
240	One	C	<0.5% HCl	>60%	(120+15) minutes	
300	One	C	<0.5% HCl	>60%	(120+15) minutes	
400	One	C	<0.5% HCl	>60%	(120+15) minutes	
500	One	-	<0.5% HCl	>60%	(120+15) minutes	
630	One	-	<0.5% HCl	>60%	(120+15) minutes	
800	One	-	<0.5% HCl	>60%	(120+15) minutes	

A copy of the certificate, confirming the full scope of approval including notes relating to the superscript references in the above table, may be viewed online by clicking on the product name in the associated entry on www.RedBookLive.com

HQ
6 Ibn Malek St, Nahda Sq, Giza 184, Egypt

Certificate No: 1676b to BS 6387:2013 (Category CWZ) IEC 60331-21:1999 EN 61034-2:2005+A2:2020 EN 60754-1:2014

Cu/Mica/XLPE/LSHF cables

Nominal csa of conductor (mm^2)	Core Construction	BS 6387	EN 60754-1	EN 61034-2	IEC 60331-21	LPCB Ref. No.
1.5	One	CWZ	<0.5% HCl	>60%	(120 + 15) minutes	1676b/01
2.0	One	CWZ	<0.5% HCl	>60%	(120 + 15) minutes	
2.5	One	CWZ	<0.5% HCl	>60%	(120 + 15) minutes	
3.0	One	CWZ	<0.5% HCl	>60%	(120 + 15) minutes	
4.0	One	CWZ	<0.5% HCl	>60%	(120 + 15) minutes	
6.0	One	CWZ	<0.5% HCl	>60%	(120 + 15) minutes	
10	One	CWZ	<0.5% HCl	>60%	(120 + 15) minutes	
16	One	CWZ	<0.5% HCl	>60%	(120 + 15) minutes	
25	One	CWZ	<0.5% HCl	>60%	(120 + 15) minutes	
35	One	CWZ	<0.5% HCl	>60%	(120 + 15) minutes	
50	One	CWZ	<0.5% HCl	>60%	(120 + 15) minutes	
70	One	C	<0.5% HCl	>60%	(120 + 15) minutes	
95	One	C	<0.5% HCl	>60%	(120 + 15) minutes	
120	One	C	<0.5% HCl	>60%	(120 + 15) minutes	
150	One	C	<0.5% HCl	>60%	(120 + 15) minutes	
185	One	C	<0.5% HCl	>60%	(120 + 15) minutes	
240	One	C	<0.5% HCl	>60%	(120 + 15) minutes	
300	One	C	<0.5% HCl	>60%	(120 + 15) minutes	
400	One	C	<0.5% HCl	>60%	(120 + 15) minutes	
500	One	-	<0.5% HCl	>60%	(120 + 15) minutes	
630	One	-	<0.5% HCl	>60%	(120 + 15) minutes	
800	One	-	<0.5% HCl	>60%	(120 + 15) minutes	

A copy of the certificate, confirming the full scope of approval including notes relating to the superscript references in the above table, may be viewed online by clicking on the product name in the associated entry on www.RedBookLive.com

HQ
6 Ibn Malek St, Nahda Sq, Giza 184, Egypt

Certificate No: 1676c to IEC 60331-21:1999 EN 60754-1:2014 EN 60754-2:2014 EN 61034-2:2005+A2:2020 EN 60332-3-24:2009

Cu/Mica/XLPE/AWA/LSHF cables

Nominal csa of conductor (mm^2)	Core Construction	IEC 60331-21	EN 60754-1	EN 60754-2	EN 61034-2	EN 60332-3-24	LPCB Ref. No.
16	One	(120 + 15) minutes	<0.5% HCl	Complies	>60%	Complies	1676c/01
25	One	(120 + 15) minutes	<0.5% HCl	Complies	>60%	Complies	
35	One	(120 + 15) minutes	<0.5% HCl	Complies	>60%	Complies	
50	One	(120 + 15) minutes	<0.5% HCl	Complies	>60%	Complies	
70	One	(120 + 15) minutes	<0.5% HCl	Complies	>60%	Complies	

Nominal csa of conductor (mm^2)	Core Construction	IEC 60331-21	EN 60754-1	EN 60754-2	EN 61034-2	EN 60332-3-24	LPCB Ref. No.
95	One	(120 + 15) minutes	<0.5% HCl	Complies	>60%	Complies	
120	One	(120 + 15) minutes	<0.5% HCl	Complies	>60%	Complies	
150	One	(120 + 15) minutes	<0.5% HCl	Complies	>60%	Complies	
185	One	(120 + 15) minutes	<0.5% HCl	Complies	>60%	Complies	
240	One	(120 + 15) minutes	<0.5% HCl	Complies	>60%	Complies	
300	One	(120 + 15) minutes	<0.5% HCl	Complies	>60%	Complies	
400	One	(120 + 15) minutes	<0.5% HCl	Complies	>60%	Complies	
500	One	(120 + 15) minutes	<0.5% HCl	Complies	>60%	Complies	
630	One	(120 + 15) minutes	<0.5% HCl	Complies	>60%	Complies	
800	One	(120 + 15) minutes	<0.5% HCl	Complies	>60%	Complies	

A copy of the certificate, confirming the full scope of approval including notes relating to the superscript references in the above table, may be viewed online by clicking on the product name in the associated entry on www.RedBookLive.com

HQ
6 Ibn Malek St, Nahda Sq, Giza 184, Egypt

Certificate No: 1676d to BS 6387:2013 (Category CWZ) EN 60754-1:2014 EN 60754-2:2014 EN 61034-2:2005+A2:2020 EN 60332-3-24:2009

Cu/Mica/XLPE/LSHF Multicore Cable

Nominal csa of conductor (mm^2)	Core Construction	BS 6387	EN 60754-1	EN 60754-2	EN 61034-2	EN 60332-3-24	LPCB Ref. No.
1.5	2, 3 & 4	CWZ	<0.5% HCl	Complies	>60%	Complies	1676d/01
2.5	2, 3 & 4	CWZ	<0.5% HCl	Complies	>60%	Complies	
4.0	2, 3 & 4	CWZ	<0.5% HCl	Complies	>60%	Complies	
6.0	2, 3 & 4	CWZ	<0.5% HCl	Complies	>60%	Complies	
10	2, 3 & 4	CWZ	<0.5% HCl	Complies	>60%	Complies	
16	2, 3 & 4	CWZ	<0.5% HCl	Complies	>60%	Complies	
25	2, 3 & 4	CWZ	<0.5% HCl	Complies	>60%	Complies	
35	2, 3 & 4	CWZ	<0.5% HCl	Complies	>60%	Complies	
50	2, 3 & 4	CWZ	<0.5% HCl	Complies	>60%	Complies	
70	2, 3 & 4	CWZ	<0.5% HCl	Complies	>60%	Complies	
95	2, 3 & 4	CWZ	<0.5% HCl	Complies	>60%	Complies	
120	2, 3 & 4	CWZ	<0.5% HCl	Complies	>60%	Complies	
150	2, 3 & 4	CWZ	<0.5% HCl	Complies	>60%	Complies	
185	2, 3 & 4	CWZ	<0.5% HCl	Complies	>60%	Complies	
240	2, 3 & 4	CWZ	<0.5% HCl	Complies	>60%	Complies	
300	2, 3 & 4	CWZ	<0.5% HCl	Complies	>60%	Complies	
400	2, 3 & 4	CWZ	<0.5% HCl	Complies	>60%	Complies	

A copy of the certificate, confirming the full scope of approval including notes relating to the superscript references in the above table, may be viewed online by clicking on the product name in the associated entry on www.RedBookLive.com

HQ
6 Ibn Malek St, Nahda Sq, Giza, Egypt

Certificate No: 1676e to BS 6387:2013 (Category CWZ)
BS 8491:2008 (120 minutes)
EN 60754-1:2014
EN 60754-2:2014
EN 61034-2:2005+A2:2020
EN 60332-1-2:2004+A11:2016
EN 60332-3-24:2009

Cu/Mica/XLPE/SWA/LSHF Multicore Cable

Nominal csa of conductor (mm^2)	Core Construction	BS 6387	BS 8491	EN 60754-1	EN 60754-2	EN 61034-2	EN 60332-3-24	LPCB Ref. No.
1.5	2, 3 & 4	CWZ	-	<0.5% HCl	Complies	>60%	Complies	1676e/01
2.5	2, 3 & 4	CWZ	-	<0.5% HCl	Complies	>60%	Complies	
4.0	2, 3 & 4	CWZ	-	<0.5% HCl	Complies	>60%	Complies	
6.0	2, 3 & 4	CWZ	-	<0.5% HCl	Complies	>60%	Complies	
10	2, 3 & 4	CWZ	120 minutes	<0.5% HCl	Complies	>60%	Complies	
16	2, 3 & 4	CWZ	120 minutes	<0.5% HCl	Complies	>60%	Complies	
25	2, 3 & 4	CWZ	120 minutes	<0.5% HCl	Complies	>60%	Complies	
35	2, 3 & 4	CWZ	120 minutes	<0.5% HCl	Complies	>60%	Complies	
50	2, 3 & 4	CWZ	120 minutes	<0.5% HCl	Complies	>60%	Complies	
70	2, 3 & 4	CWZ	120 minutes	<0.5% HCl	Complies	>60%	Complies	
95	2, 3 & 4	CWZ	120 minutes	<0.5% HCl	Complies	>60%	Complies	
120	2, 3 & 4	CWZ	120 minutes	<0.5% HCl	Complies	>60%	Complies	
150	2, 3 & 4	CWZ	120 minutes	<0.5% HCl	Complies	>60%	Complies	
185	2, 3 & 4	CWZ	120 minutes	<0.5% HCl	Complies	>60%	Complies	
240	2, 3 & 4	CWZ	120 minutes	<0.5% HCl	Complies	>60%	Complies	
300	2, 3 & 4	CWZ	120 minutes	<0.5% HCl	Complies	>60%	Complies	

A copy of the certificate, confirming the full scope of approval including notes relating to the superscript references in the above table, may be viewed online by clicking on the product name in the associated entry on www.RedBookLive.com

Gulf Cables & Electrical Industries Group Co. K.S.C.P.

Sulaibiya Industrial Area 1, Street 5, PO Box 1196, Safat 13012, Kuwait
Tel: +965 24645500
E-mail: info@gulfcable.com • Website: www.gulfcable.com

Certificate No: 1661a to BS 7846:2015 Category F2 & F120 EN 50200:2015 Class PH120 EN 50200:2015 Annex E IEC 60331-21:1999 BS 8519:2010 Clause 11 Category 3 BS 5839-1:2017 (Clause 26.2d) BS 6387:2013 Category CWZ

GC Fire 2A Super

Nominal csa of conductor (mm^2)	Core Construction	BS 7846	EN 50200	EN 50200 Annex E	BS 8519	IEC 60331-21	BS 5839-1 (Clause 26.2d)	LPCB Ref. No.
1.5	2, 3 & 4	F2	PH120	Annex E	-	(180+15) minutes	Standard	1661a/01
2.5	2, 3 & 4	F2	PH120	Annex E	-	(180+15) minutes	Standard	
4.0	2, 3 & 4	F2	PH120	Annex E	-	(180+15) minutes	Standard	
6.0	4	F2 & F120	-	-	Category 3	(180+15) minutes	-	
6.0	2 & 3	F2	PH120	Annex E	-	(180+15) minutes	Standard	
10	2	F2	PH120	Annex E	-	(180+15) minutes	Standard	
10	3 & 4	F2 & F120	-	-	Category 3	(180+15) minutes	-	
16	2, 3 & 4	F2 & F120	-	-	Category 3	(180+15) minutes	-	
25	2, 3 & 4	F2 & F120	-	-	Category 3	(180+15) minutes	-	
35	2, 3 & 4	F2 & F120	-	-	Category 3	(180+15) minutes	-	
50	2, 3 & 4	F2 & F120	-	-	Category 3	(180+15) minutes	-	
70	2 ,3 & 4	F2 & F120	-	-	Category 3	(180+15) minutes	-	
95	2, 3 & 4	F2 & F120	-	-	Category 3	(180+15) minutes	-	
120	2, 3 & 4	F2 & F120	-	-	Category 3	(180+15) minutes	-	
150	2, 3 & 4	F2 & F120	-	-	Category 3	(180+15) minutes	-	
185	2, 3 & 4	F2 & F120	-	-	Category 3	(180+15) minutes	-	
240	2, 3 & 4	F2 & F120	-	-	Category 3	(180+15) minutes	-	
300	2, 3 & 4	F2 & F120	-	-	Category 3	(180+15) minutes	-	
400	2, 3 & 4	F2 & F120	-	-	Category 3	(180+15) minutes	-	

A copy of the certificate, confirming the full scope of approval including notes relating to the superscript references in the above table, may be viewed online by clicking on the product name in the associated entry on www.RedBookLive.com

Gulf Fire Vision Workshop Equipment Machinery & Spare parts Trading

P. O. Box 234713, Dubai, United Arab Emirates
Tel: +971 566 886 408 • Fax: +971 561 0311
E-mail: jashpal.m@gulfirevision.com • Website: www.gulfirevision.com

Certificate No: 1383a-(cl-6) to BS 6387:2013 (Category CWZ) EN 50200:2015 (Class PH30) EN 50200:2015 Annex E (30 mins) EN 61034-2:2005+A2:2020 EN 60754-1:2014 EN 60332-1-2:2004

ACCUREX FIRE RESISTANT CABLE

Nominal csa of conductor (mm^2)	Core Construction	BS 6387	EN 50200	EN 50200 Annex E	EN 60754-1	EN 61034-2	EN 60332-1-2	LPCB Ref. No.
1.0	2, 3 & 4	C, W, Z	PH30	30 min	<0.5%	>60%	Complies	1383a-(cl-6)
1.5	2, 3 & 4	C, W, Z	PH30	30 min	<0.5%	>60%	Complies	
2.5	2, 3 & 4	C, W, Z	PH30	30 min	<0.5%	>60%	Complies	

A copy of the certificate, confirming the full scope of approval including notes relating to the superscript references in the above table, may be viewed online by clicking on the product name in the associated entry on www.RedBookLive.com

Havells India Limited
A-461/462, SP-215, 204A & 204,, MIA, Alwar
Alwar, Rajasthan 301030, India
Tel: 91-144-2854236
E-mail: Sanjay.kaushik@havells.com • Website: www.havells.com

Corporate Office
QRG Towers, 2D Sec 126, Express Way Noida, Uttar Pradesh 201304, India
Tel: 91-9667798744
E-mail: Abhinav.saxena@havells.com • Website: www.havells.com

Certificate No: 1743a to BS 6387:2013 CWZ
EN 61034-2:2005 & A2:2020
EN 60754-1:2014
BS EN 60332-3-24:2009

Fire Resistant Cable

Nominal csa of conductor (mm^2)	Core Construction	BS 6387	EN 60754-1	EN 61034-2	EN 60332-3-24	LPCB Ref. No.
1.5	2,3,4,5,7,12,19,27 & 37	CWZ	<0.5% HCl	>60%	Complies	1743a/01
2.5	2,3,4,5,7,12,19,27 & 37	CWZ	<0.5% HCl	>60%	Complies	
4.0	2,3,4,5,7,12,19,27 & 37	CWZ	<0.5% HCl	>60%	Complies	
6.0	2, 3, 4 & 5	CWZ	<0.5% HCl	>60%	Complies	
10	2, 3, 4 & 5	CWZ	<0.5% HCl	>60%	Complies	
16	2, 3, 4 & 5	CWZ	<0.5% HCl	>60%	Complies	
25	2, 3, 4 & 5	CWZ	<0.5% HCl	>60%	Complies	
35	2, 3, 4 & 5	CWZ	<0.5% HCl	>60%	Complies	
50	2, 3, 4 & 5	CWZ	<0.5% HCl	>60%	Complies	
70	2, 3, 4 & 5	CWZ	<0.5% HCl	>60%	Complies	
95	2, 3 & 4	CWZ	<0.5% HCl	>60%	Complies	
120	2, 3 & 4	CWZ	<0.5% HCl	>60%	Complies	
150	2, 3 & 4	CWZ	<0.5% HCl	>60%	Complies	
185	2, 3 & 4	CWZ	<0.5% HCl	>60%	Complies	
240	2, 3 & 4	CWZ	<0.5% HCl	>60%	Complies	
300	2, 3 & 4	CWZ	<0.5% HCl	>60%	Complies	
400	2, 3 & 4	CWZ	<0.5% HCl	>60%	Complies	

A copy of the certificate, confirming the full scope of approval including notes relating to the superscript references in the above table, may be viewed online by clicking on the certificate link in the associated entry on www.RedBookLive.com

Corporate Office
QRG Towers, 2D Sec 126, Express Way Noida, Uttar Pradesh 201304, India
Tel: 91-9667798744
E-mail: Abhinav.saxena@havells.com • Website: www.havells.com

Certificate No: 1743b to BS 8491:2008
BS 6387:2013 CWZ
EN 61034-2:2005+A2:2020
EN 60754-1:2014
EN 60332-3-24:2009

Fire Resistant Cable

Nominal csa of conductor (mm^2)	Core Construction	BS 8491	BS 6387	EN 60754-1	EN 60134-2	EN 60332-3-24	LPCB Ref. No.
16	2, 3, 4 & 5	120 Minutes	CWZ	<0.5% HCl	>60%	Complies	1743b/01

Nominal csa of conductor (mm^2)	Core Construction	BS 8491	BS 6387	EN 60754-1	EN 60134-2	EN 60332-3-24	LPCB Ref. No.
25	2, 3, 4 & 5	120 Minutes	CWZ	<0.5% HCl	>60%	Complies	
35	2, 3, 4 & 5	120 Minutes	CWZ	<0.5% HCl	>60%	Complies	
50	2, 3, 4 & 5	120 Minutes	CWZ	<0.5% HCl	>60%	Complies	
70	2, 3, 4 & 5	120 Minutes	CWZ	<0.5% HCl	>60%	Complies	
95	2, 3 & 4	120 Minutes	CWZ	<05.% HCl	>60%	Complies	
120	2, 3 & 4	120 Minutes	CWZ	<0.5% HCl	>60%	Complies	
150	2, 3 & 4	120 Minutes	CWZ	<0.5% HCl	>60%	Complies	
185	2, 3 & 4	120 Minutes	CWZ	<0.5% HCl	>60%	Complies	
240	2, 3 & 4	120 Minutes	CWZ	<0.5% HCl	>60%	Complies	
300	2, 3 & 4	120 Minutes	CWZ	<0.5% HCl	>60%	Complies	
400	2, 3 & 4	120 Minutes	CWZ	<0.5% HCl	>60%	Complies	

A copy of the certificate, confirming the full scope of approval including notes relating to the superscript references in the above table, may be viewed online by clicking on the product name in the associated entry on www.RedBookLive.com

Helukabel GmbH

Schloßhaldenstr. 10, Hemmingen 71282, Germany
Tel: +49 7150 9209 712 • Fax: +49 7150 9209 5712
E-mail: Christian.Dettmer@helukabel.de • Website: www.helukabel.com

Certificate No: 568c-(cl-8) to BS 7629-1:2015 (Standard 60) BS 6387:2013 (Category CWZ) EN 50200:2015 (Class PH120) EN 50200:2015 Annex E (30 minutes) BS 5839-1:2013 (Clause 26.2d Standard) EN 60754-2:2014

HELUTHERM® FIRE RES 120

Nominal csa of conductor (mm^2)	Core Construction	BS 7629-1	BS 6387	EN 50200	BS 5839-1	EN 60754-2	LPCB Ref. No.
1.0	2	Standard 60	C, W, Z	PH120	Clause 26.2d	Complies	568c-(cl-8)/02
1.5	2, 3 & 4	Standard 60	C, W, Z	PH120	Clause 26.2d	Complies	
2.5	2, 3 & 4	Standard 60	C, W, Z	PH120	Clause 26.2d	Complies	
4	2, 3 & 4	Standard 60	C, W, Z	PH120	Clause 26.2d	Complies	

A copy of the certificate, confirming the full scope of approval including notes relating to the superscript references in the above table, may be viewed online by clicking on the product name in the associated entry on www.RedBookLive.com

Italcond S.r.l.

Via Erideo Marinucci 42/44, 62019 Recanati (MC), Italy
Tel: +39 071 7501692 • Fax: +39 071 7503017
E-mail: info@italcond.it • Website: www.italcond.it

Certificate No: 1168a to BS 6387:2013 (Category CWZ) EN 61034-2:2005+A1:2013 EN 60754-1:2014 EN 50200:2015 (Class PH120) EN 50200:2015 Annex E (30 mins)

ITALCOND/ITALFIRE - Fire Resistant

Nominal csa of conductor (mm^2)	Core Construction	BS 6387	EN 60754-1	EN 61034-2	EN 50200	EN 50200 Annex E	LPCB Ref. No.
1.5	2	CWZ	<0.5% HCl	>60%	PH120	30 mins	1168a/01
1.5	3, 4	CWZ	<0.5% HCl	>60%	PH120	30 mins	
2.5	2	CWZ	<0.5% HCl	>60%	PH120	30 mins	

A copy of the certificate, confirming the full scope of approval including notes relating to the superscript references in the above table, may be viewed online by clicking on the product name in the associated entry on www.RedBookLive.com

Jaylow Supplies Ltd

Jaylow House, Leyton Link Estate, Argall Avenue, Leyton, London E10 7FD, United Kingdom
Tel: +44 (0)208 558 1921 • Fax: +44 (0)208 988 5114
Website: www.jaylowcables.com

Certificate No: 682d-(cl-2) to BS 7629-1:2015 (ENHANCED 120) BS 6387:2013 (CWZ) EN 50200:2015 (Class PH120) BS 8434-2:2003 BS 5839-1:2013 (Clause 26.2 Enhanced) EN 60332-3-24 EN 60332-3-25

Jayflame Enhanced

Nominal csa of conductor (mm^2)	Core Construction (excluding drain wire and earth)	BS 7629-1	BS 6387	EN 50200	BS 8434-2	BS 5839-1 Clause 26.2	LPCB Ref. No.
1.0	2	ENHANCED 120	C,W,Z	Class PH120	120min	Enhanced	682d/01
1.5	2, 3 & 4	ENHANCED 120	C,W,Z	Class PH120	120min	Enhanced	
2.5	2, 3 & 4	ENHANCED 120	C,W,Z	Class PH120	120min	Enhanced	
4.0	2, 3 & 4	ENHANCED 120	C,W,Z	Class PH120	120min	Enhanced	

A copy of the certificate, confirming the full scope of approval including notes relating to the superscript references in the above table, may be viewed online by clicking on the product name in the associated entry on www.RedBookLive.com

Certificate No: 682a-(cl-1) to BS 7629-1:2015 (STANDARD 60), BS 6387:2013 (CWZ), EN 50200:2015 (Class PH120), EN 50200:2015 Annex E (30 mins), BS 5839-1:2013 (Clause 26.2d Standard), EN 60332-3-24: 2009 and EN 60332-3-25: 2009

Jayflame

Nominal csa of conductor (mm^2)	Core Construction (excluding drain wire and earth)	BS 7629-1	BS 6387	EN 50200	EN 50200 Annex E	BS 5839-1 Clause 26.2	LPCB Ref. No.
1.0	2	STANDARD 60	C,W,Z	Class PH120	30min	Standard	682a/01
1.5	2, 3 & 4	STANDARD 60	C,W,Z	Class PH120	30min	Standard	
2.5	2, 3 & 4	STANDARD 60	C,W,Z	Class PH120	30min	Standard	
4.0	2, 3 & 4	STANDARD 60	C,W,Z	Class PH120	30min	Standard	

A copy of the certificate, confirming the full scope of approval including notes relating to the superscript references in the above table, may be viewed online by clicking on the product name in the associated entry on www.RedBookLive.com

Jeddah Cables Company

Industrial City Phase III, P.O. Box 31248, Jeddah 21497, Kingdom of Saudi Arabia
Tel: +966 12 636 0770 +971 4262 6605
E-mail: info@cables.energya.com • Website: www.jeddah-cables.com

Certificate No: 1538c to EN 60754-1:2014 EN 61034-2:2005+A1:2013 IEC 60331-21:1999

FireX200 (Armoured)

Nominal csa of conductor (mm^2)	Core Construction	IEC 60331-21	EN 61034-2	EN 60754-1	LPCB Ref. No.
1.5	One	Complies	>60%	<0.5% HCl	1538c/01
2.5	One	Complies	>60%	<0.5% HCl	
4.0	One	Complies	>60%	<0.5% HCl	
6.0	One	Complies	>60%	<0.5% HCl	
10	One	Complies	>60%	<0.5% HCl	
16	One	Complies	>60%	<0.5% HCl	
25	One	Complies	>60%	<0.5% HCl	
35	One	Complies	>60%	<0.5% HCl	
50	One	Complies	>60%	<0.5% HCl	
70	One	Complies	>60%	<0.5% HCl	
95	One	Complies	>60%	<0.5% HCl	
120	One	Complies	>60%	<0.5% HCl	
150	One	Complies	>60%	<0.5% HCl	
185	One	Complies	>60%	<0.5% HCl	
240	One	Complies	>60%	<0.5% HCl	
300	One	Complies	>60%	<0.5% HCl	
400	One	Complies	>60%	<0.5% HCl	
500	One	Complies	>60%	<0.5% HCl	
630	One	Complies	>60%	<0.5% HCl	
800	One	Complies	>60%	<0.5% HCl	
1000	One	Complies	>60%	<0.5% HCl	

A copy of the certificate, confirming the full scope of approval including notes relating to the superscript references in the above table, may be viewed online by clicking on the product name in the associated entry on www.RedBookLive.com

Certificate No: 1538a to BS 6387:2013 (Category CWZ) IEC 60331-21:1999 EN 61034-2:2005+A1:2013 EN 60754-1:2014

FireX100

Nominal csa of conductor (mm^2)	Core Construction	BS 6387	EN 60754-1	EN 61034-2	IEC 60331-21	LPCB Ref. No.
1.5	One	C, W, Z	<0.5% HCl	>60%	Complies	1538a/01
2.5	One	C, W, Z	<0.5% HCl	>60%	Complies	
4.0	One	C, W, Z	<0.5% HCl	>60%	Complies	
6.0	One	C, W, Z	<0.5% HCl	>60%	Complies	
10	One	C, W, Z	<0.5% HCl	>60%	Complies	
16	One	C, W, Z	<0.5% HCl	>60%	Complies	
25	One	C, W, Z	<0.5% HCl	>60%	Complies	
35	One	C, W, Z	<0.5% HCl	>60%	Complies	
50	One	C, W, Z	<0.5% HCl	>60%	Complies	
70	One	C, W, Z	<0.5% HCl	>60%	Complies	
95	One	C, W, Z	<0.5% HCl	>60%	Complies	
120	One	C	<0.5% HCl	>60%	Complies	
150	One	C	<0.5% HCl	>60%	Complies	
185	One	C	<0.5% HCl	>60%	Complies	
240	One	C	<0.5% HCl	>60%	Complies	
300	One	C	<0.5% HCl	>60%	Complies	
400	One	C	<0.5% HCl	>60%	Complies	
500	One	C	<0.5% HCl	>60%	Complies	
630	One	-	<0.5% HCl	>60%	Complies	

A copy of the certificate, confirming the full scope of approval including notes relating to the superscript references in the above table, may be viewed online by clicking on the product name in the associated entry on www.RedBookLive.com

Certificate No: 1538b to BS 6387:2013 (Category CWZ) IEC 60331-21:1999 EN 61034-2:2005+A1:2013 EN 60754-1:2014

FireX200 (Unarmoured)

Nominal csa of conductor (mm^2)	Core Construction	BS 6387	EN 60754-1	EN 61034-2	IEC 60331-21	LPCB Ref. No.
1.5	One	C, W, Z	<0.5% HCl	>60%	Complies	1538b/01
2.5	One	C, W, Z	<0.5% HCl	>60%	Complies	
4.0	One	C, W, Z	<0.5% HCl	>60%	Complies	
6.0	One	C, W, Z	<0.5% HCl	>60%	Complies	
10	One	C, W, Z	<0.5% HCl	>60%	Complies	
16	One	C, W, Z	<0.5% HCl	>60%	Complies	
25	One	C, W, Z	<0.5% HCl	>60%	Complies	
35	One	C, W, Z	<0.5% HCl	>60%	Complies	
50	One	C, W, Z	<0.5% HCl	>60%	Complies	
70	One	C, W, Z	<0.5% HCl	>60%	Complies	
95	One	C	<0.5% HCl	>60%	Complies	
120	One	C	<0.5% HCl	>60%	Complies	
150	One	C	<0.5% HCl	>60%	Complies	
185	One	C	<0.5% HCl	>60%	Complies	
240	One	C	<0.5% HCl	>60%	Complies	
300	One	C	<0.5% HCl	>60%	Complies	
400	One	C	<0.5% HCl	>60%	Complies	
500	One	-	<0.5% HCl	>60%	Complies	
630	One	-	<0.5% HCl	>60%	Complies	
800	One	-	<0.5% HCl	>60%	Complies	
1000	One	-	<0.5% HCl	>60%	Complies	

A copy of the certificate, confirming the full scope of approval including notes relating to the superscript references in the above table, may be viewed online by clicking on the product name in the associated entry on www.RedBookLive.com

KEI Industries Ltd

SP-919,920,922, Riico Industrial Area, , Distt-Alwar (Raj) 301019, India
Tel: +91-9587202268
E-mail: akshay.singh@kei-ind.com • Website: www.kei-ind.com

Certificate No: 1741a to BS 7846:2015 Cat F2
IEC 60331-21:1999

KEI ELECTRIC CABLE

Nominal csa of conductor (mm^2)	Core Construction	BS 7846	IEC 60331-21	LPCB Ref. No.
1.5	2, 3, 4, 5, 7, 12, 19, 27 & 37	F2	(180+15) minutes	1741a/01
2.5	2, 3, 4, 5, 7, 12, 19, 27 & 37	F2	(180+15) minutes	
4.0	2, 3, 4, 5, 7, 12, 19, 27 & 37	F2	(180+15) minutes	
6.0	2, 3, 4 & 5	F2	(180+15) minutes	
10	2, 3, 4 & 5	F2	(180+15) minutes	
16	2, 3, 4 & 5	F2	(180+15) minutes	
25	2, 3, 4 & 5	F2	(180+15) minutes	
35	2, 3, 4 & 5	F2	(180+15) minutes	
50	2, 3, 4 & 5	F2	(180+15) minutes	
70	2, 3, 4 & 5	F2	(180+15) minutes	
95	2, 3 & 4	F2	(180+15) minutes	
120	2, 3 & 4	F2	(180+15) minutes	
150	2, 3 & 4	F2	(180+15) minutes	
185	2, 3 & 4	F2	(180+15) minutes	
300	2, 3 & 4	F2	(180+15) minutes	
400	2, 3 & 4	F2	(180+15) minutes	

A copy of the certificate, confirming the full scope of approval including notes relating to the superscript references in the above table, may be viewed online by clicking on the product name in the associated entry on www.RedBookLive.com

Keystone Electric Wire & Cable Company Ltd

#110 DD 83, Kwan Ti North Village, Fanling, New Territories, Hong Kong
Tel: +852 2691 7183 • Fax: +852 2695 9738
E-mail: sales@keystonecable.com • Website: www.keystonecable.com

Certificate No: 663d to BS 7846:2015 F2 and F120 BS 8491:2008

KEYSTONE Enhanced Fire Resistance Armoured Cable

Nominal csa of conductor (mm^2)	Core Construction (excluding drain wire and earth)	BS 7846	BS 8491	LPCB Ref. No.
4.0	3 & 4	F2 & F120	120 Min	663d/01
6.0	3 & 4	F2 & F120	120 Min	
10	2, 3 & 4	F2 & F120	120 Min	
16	2, 3 & 4	F2 & F120	120 Min	
25	2, 3 & 4	F2 & F120	120 Min	
35	2, 3 & 4	F2 & F120	120 Min	
50	2, 3 & 4	F2 & F120	120 Min	
70	2, 3 & 4	F2 & F120	120 Min	
95	2, 3 & 4	F2 & F120	120 Min	
120	2, 3 & 4	F2 & F120	120 Min	
150	2, 3 & 4	F2 & F120	120 Min	
185	2, 3 & 4	F2 & F120	120 Min	
240	2, 3 & 4	F2 & F120	120 Min	
300	2, 3 & 4	F2 & F120	120 Min	
400	2, 3 & 4	F2 & F120	120 Min	

A copy of the certificate, confirming the full scope of approval including notes relating to the superscript references in the above table, may be viewed online by clicking on the product name in the associated entry on www.RedBookLive.com

Certificate No: 663c to BS 7846: 2015 EN 50200:2015 (Class PH120) EN 50200:2015 Annex E (30 mins) EN 60754-2:2014

KEYSTONE Fire Resistance Armoured Cable

Nominal csa of conductor (mm^2)	Core Construction	BS 7846	EN 50200	EN 50200	EN 60754-2	LPCB Ref. No.
1.5	2, 3 & 4	F2	PH120	Annex E	Complies	663c/01
2.5	2, 3 & 4	F2	PH120	Annex E	Complies	
4.0	2, 3 & 4	F2	PH120	Annex E	Complies	
6.0	2, 3 & 4	F2	PH120	Annex E	Complies	
10	2, 3 & 4	F2	-	-	Complies	
16	2, 3 & 4	F2	-	-	Complies	
25	2, 3 & 4	F2	-	-	Complies	
35	2, 3 & 4	F2	-	-	Complies	
50	2, 3 & 4	F2	-	-	Complies	
70	2, 3 & 4	F2	-	-	Complies	
95	2, 3 & 4	F2	-	-	Complies	
120	2, 3 & 4	F2	-	-	Complies	
150	2, 3 & 4	F2	-	-	Complies	
185	2, 3 & 4	F2	-	-	Complies	
240	2, 3 & 4	F2	-	-	Complies	
300	2, 3 & 4	F2	-	-	Complies	
400	2, 3 & 4	F2	-	-	Complies	

A copy of the certificate, confirming the full scope of approval including notes relating to the superscript references in the above table, may be viewed online by clicking on the product name in the associated entry on www.RedBookLive.com

Certificate No: 663b to BS 6387: 2013 (Category CWZ) EN 50200:2015 (Class PH120+Annex E) EN 60754-1:2014 EN 60754-2:2014 EN 61034-2:2005+A1:2013 IEC 60331-21:1999

KEYSTONE FR 7211 Cable

Nominal csa of conductor (mm^2)	Core Construction	BS 6387	EN 50200	EN 60754-1	EN 60754-2	EN 61034-2	IEC 60331-21	LPCB Ref. No.
1.5	One	CWZ	PH120 Annex E	<0.5% HCl	Complies	>60%	Complies	663b/01
2.5	One	CWZ	PH120 Annex E	<0.5% HCl	Complies	>60%	Complies	
4.0	One	CWZ	PH120 Annex E	<0.5% HCl	Complies	>60%	Complies	
6.0	One	CWZ	PH120 Annex E	<0.5% HCl	Complies	>60%	Complies	
10	One	CWZ	PH120 Annex E	<0.5% HCl	Complies	>60%	Complies	
16	One	CWZ	PH120 Annex E	<0.5% HCl	Complies	>60%	Complies	
25	One	CWZ	PH120 Annex E	<0.5% HCl	Complies	>60%	Complies	
35	One	CWZ	PH120 Annex E	<0.5% HCl	Complies	>60%	Complies	
50	One	CWZ	PH120 Annex E	<0.5% HCl	Complies	>60%	Complies	
70	One	CWZ	PH120 Annex E	<0.5% HCl	Complies	>60%	Complies	
95	One	CWZ	-	<0.5% HCl	Complies	>60%	Complies	
120	One	C	-	<0.5% HCl	Complies	>60%	Complies	
150	One	C	-	<0.5% HCl	Complies	>60%	Complies	
185	One	C	-	<0.5% HCl	Complies	>60%	Complies	
240	One	C	-	<0.5% HCl	Complies	>60%	Complies	
300	One	C	-	<0.5% HCl	Complies	>60%	Complies	

A copy of the certificate, confirming the full scope of approval including notes relating to the superscript references in the above table, may be viewed online by clicking on the product name in the associated entry on www.RedBookLive.com

Certificate No: 663e to BS 6387:2013 Category (CWZ) IEC 60331-21:1999 EN 61034-2:2005+A2:2020 EN 60754-1:2014 EN 60332-1-2:2004+A11:2016

KEYSTONE FS1000

Nominal csa of conductor (mm^2)	Core Construction	BS 6387	IEC 60331-21	EN 61034-2	EN 60754-1	LPCB Ref. No.
10	One	CWZ	(90+15) minutes	>60%	<0.5% HCl	663e/01
16	One	CWZ	(90+15) minutes	>60%	<0.5% HCl	
25	One	CWZ	(90+15) minutes	>60%	<0.5% HCl	
35	One	CWZ	(90+15) minutes	>60%	<0.5% HCl	
50	One	CWZ	(90+15) minutes	>60%	<0.5% HCl	
70	One	CWZ	(90+15) minutes	>60%	<0.5% HCl	
95	One	C	(90+15) minutes	>60%	<0.5% HCl	
120	One	C	(90+15) minutes	>60%	<0.5% HCl	
150	One	C	(90+15) minutes	>60%	<0.5% HCl	

Nominal csa of conductor (mm^2)	Core Construction	BS 6387	IEC 60331-21	EN 61034-2	EN 60754-1	LPCB Ref. No.
185	One	C	(90+15) minutes	>60%	<0.5% HCl	
240	One	C	(90+15) minutes	>60%	<0.5% HCl	
300	One	C	(90+15) minutes	>60%	<0.5% HCl	
400	One	C	(90+15) minutes	>60%	<0.5% HCl	
500	One	-	(90+15) minutes	>60%	<0.5% HCl	
630	One	-	(90+15) minutes	>60%	<0.5% HCl	
800	One	-	(90+15) minutes	>60%	<0.5% HCl	
1000	One	-	(90+15) minutes	>60%	<0.5% HCl	

A copy of the certificate, confirming the full scope of approval including notes relating to the superscript references in the above table, may be viewed online by clicking on the product name in the associated entry on www.RedBookLive.com

Certificate No: 663f to BS 7846:2015 Cat F2 & F120
EN 60754-2:2014

KEYSTONE Enhanced Fire Resistance Armoured Auxiliary Cable

Nominal csa of conductor (mm^2)	Core Construction	BS 7846	EN 60754-2	LPCB Ref. No.
1.5	7, 8, 10, 12, 19, 27 & 37	F2 & F120	Complies	663f/01
2.5	7, 8, 10, 12, 19, 27, & 37	F2 & F120	Complies	
4.0	7, 8, 10, 12, 19, 27 & 37	F2 & F120	Complies	

A copy of the certificate, confirming the full scope of approval including notes relating to the superscript references in the above table, may be viewed online by clicking on the product name in the associated entry on www.RedBookLive.com

KME Italy SpA

Via Della Repubblica 257, 55051 Fornaci Di Barga, Lucca, Italy
Tel: +39 0583 701.1 • Fax: +39 0583 701623
E-mail: alessandro.tardivel@kme.com • Website: www.kme.com

Certificate No: 427a to BS 6387:2013 CWZ EN 60702-1:2002+A1:2015

Nominal csa of conductor (mm^2)	Core Construction	BS 6387	EN 60702-1	LPCB Ref. No.
1.0	2.3, 4 & 7	C, W, Z	Complies	427a/01
1.5	2.3, 4 & 7	C, W, Z	Complies	
2.5	2.3, 4 & 7	C, W, Z	Complies	
4.0	2	C, W, Z	Complies	
1.5	One	C, W, Z	Complies	427a/02
2.5	One	C, W, Z	Complies	
4.0	One	C, W, Z	Complies	
6.0	One	C, W, Z	Complies	
10	One	C, W, Z	Complies	
16	One	C, W, Z	Complies	
25	One	C, W, Z	Complies	
35	One	C, W, Z	Complies	
50	One	C, W, Z	Complies	
70	One	C, W, Z	Complies	
95	One	C, W, Z	Complies	
120	One	C, W, Z	Complies	
150	One	C, W, Z	Complies	
185	One	C, W, Z	Complies	
240	One	C, W, Z	Complies	
300	One	C, W, Z	Complies	
400	One	C, W, Z	Complies	
1.5	2, 3, 4, 7, 12 & 19	C, W, Z	Complies	427a/03
2.5	2, 3, 4, 7 & 12	C, W, Z	Complies	
4.0	2, 3 & 4	C, W, Z	Complies	

Nominal csa of conductor (mm^2)	Core Construction	BS 6387	EN 60702-1	LPCB Ref. No.
6.0	2, 3 & 4	C, W, Z	Complies	
10	2, 3 & 4	C, W, Z	Complies	
16	2, 3 & 4	C, W, Z	Complies	
25	2, 3 & 4	C, W, Z	Complies	

A copy of the certificate, confirming the full scope of approval including notes relating to the superscript references in the above table, may be viewed online by clicking on the product name in the associated entry on www.RedBookLive.com

Leigh Cables

Unit 5, Brook Mill, Leigh, Lancashire WN7 2AD, United Kingdom
Tel: 01942 605505
E-mail: darran@leighcables.com • Website: https://www.leighcables.co.uk

Certificate No: 1690a to BS 8592:2016 BS 6387:2013 (Category CWZ) EN 50200:2015 (Class PH120) BS 8434-2:2003+A2:2009 (120 mins) IEC 60331-21:1999 EN 61034-2:2005+A2:2020 EN 60754-1:2014

Zyrad 950-STR

Nominal csa of conductor (mm^2)	Core Construction	BS 8592	BS 6387	BS 50200	BS 8434-2	IEC 60331-21	LPCB Ref. No.
1.5	One	Complies	CWZ	PH 120	Complies	90 + 15 minutes	1690a/01
2.5	One	Complies	CWZ	PH 120	Complies	90 + 15 minutes	
4.0	One	Complies	CWZ	PH 120	Complies	90 + 15 minutes	
6.0	One	Complies	CWZ	PH 120	Complies	90 + 15 minutes	
10	One	Complies	CWZ	PH 120	Complies	90 + 15 minutes	
16	One	Complies	CWZ	PH 120	Complies	90 + 15 minutes	
25	One	Complies	CWZ	PH 120	Complies	90 + 15 minutes	
35	One	Complies	CWZ	PH 120	Complies	90 + 15 minutes	
50	One	Complies	CWZ	PH 120	Complies	90 + 15 minutes	
70	One	Complies	CWZ	PH 120	Complies	90 + 15 minutes	

A copy of the certificate, confirming the full scope of approval including notes relating to the superscript references in the above table, may be viewed online by clicking on the product name in the associated entry on www.RedBookLive.com

MCI-Draka Cable Co. Ltd

2/7 Moo 2, Banbung-Bankhai Road, KM 57 Nongbua, Bankhai Rayong 22110, Thailand
Tel: +66 3896 1158 60
E-mail: hatthakrit.klinjan@prysmiangroup.com • Website: www.prysmiangroup.com

Certificate No: 1614b to IEC 60331-21:1999
IEC 61034-2:2005+A2:2020
IEC 60754-1:2011

MAX-FOH

Nominal csa of conductor (mm^2)	Core Conctruction	IEC 60331-21	IEC 60754-1	IEC 61034-2	LPCB Ref. No.
50	1	(90+15) minutes	<0.5% HCl	>60%	1614b/01
70	1	(90+15) minutes	<0.5% HCl	>60%	
95	1	(90+15) minutes	<0.5% HCl	>60%	
120	1	(90+15) minutes	<0.5% HCl	>60%	

A copy of the certificate, confirming the full scope of approval including notes relating to the superscript references in the above table, may be viewed online by clicking on the product name in the associated entry on www.RedBookLive.com

Certificate No: 1614c to IEC 60331-21:1999
IEC 61034-2:2005+A2:2019
IEC 60754-1:2011

MAX-FOH (i)

Nominal csa of conductor (mm^2)	Core Construction	IEC 60331-21	IEC 60754-1	EN 61034-2	LPCB Ref. No.
2.5	1	(90+15) minutes	<0.5% HCl	>60%	1614c/01

A copy of the certificate, confirming the full scope of approval including notes relating to the superscript references in the above table, may be viewed online by clicking on the product name in the associated entry on www.RedBookLive.com

Certificate No: 1614d to BS 6387:2013 (Category CWZ)
IEC 60331-21:1999
IEC 61034-2:2005+A2:2019
EN 60332-1-2:2004 + A11:2016
IEC 60754-1:2011
IEC 60754-2:2011
IEC 60332-3-22:2009
IEC 60332-3-23:2009
IEC 60332-3-24:2009

MAX-FOH-OSCR

Nominal csa of conductor (mm^2)	Core Construction	BS 6387	IEC 60331-21	IEC 61034-2	IEC 60754-1	IEC 60754-2	IEC 60332-3-22	IEC 60332-3-23	IEC 60332-3-24	LPCB Ref. No.
1.5	1 pair	C,W,Z	(90+15) Minutes	>60%	<0.5% HCl	Complies	Complies	Complies	Complies	1614d/01
2.5	1 pair	C,W,Z	(90+15) Minutes	>60%	<0.5% HCl	Complies	Complies	Complies	Complies	

A copy of the certificate, confirming the full scope of approval including notes relating to the superscript references in the above table, may be viewed online by clicking on the product name in the associated entry on www.RedBookLive.com

MICC (Shanghai) Electric Co Ltd

801-810, NO.2 Building, Shanghai Technology Innovation Center, 100 Qinzhou Road, Shanghai 200235, China
Tel: 0086 21 5169 1990 • Fax: 0086 21 5228 8095
E-mail: sales@miccgroup.com • Website: www.miccgroup.com

Certificate No: 1035a to EN 60702-1:2002 BS 6387:2013 (Category CWZ) EN 50267-2-1:1999 EN 50200:2006 (Class PH120) BS 8434-2:2003+A2:2009 BS 5839-1:2013 (Clause 26.2e Enhanced)

MICC Wiring Cable

Nominal csa of conductor (mm^2)	Core Construction (excluding drain wire and earth)	EN 60702-1	BS 6387	EN 50267-2-1	EN 50200	BS 8434-2	BS 5839-1 Clause 26.2	LPCB Ref. No.
								1035a/01
1.5	One, 2, 3, 4 & 7	Complies	C, W, Z	<0.5% HCl	Class PH120	120mm	Enhanced	
2.5	One, 2, 3, 4 & 7	Complies	C, W, Z	<0.5% HCl	Class PH120	120mm	Enhanced	
4.0	One, 2, 3 & 4	Complies	C, W, Z	<0.5% HCl	Class PH120	120mm	Enhanced	
6.0	One, 2, 3 & 4	Complies	C, W, Z	<0.5% HCl	Class PH120	120mm	Enhanced	
10	One, 2, 3 & 4	Complies	C, W, Z	<0.5% HCl	Class PH120	120mm	Enhanced	
16	One, 2, 3 & 4	Complies	C, W, Z	<0.5% HCl	Class PH120	120mm	Enhanced	
25	One, 2, 3 & 4	Complies	C, W, Z	<0.5% HCl	Class PH120	120mm	Enhanced	
35	One	Complies	C, W, Z	<0.5% HCl	Class PH120	120mm	Enhanced	

Nominal csa of conductor (mm^2)	Core Construction (excluding drain wire and earth)	EN 60702-1	BS 6387	EN 50267-2-1	EN 50200	BS 8434-2	BS 5839-1 Clause 26.2	LPCB Ref. No.
50	One	Complies	C, W, Z	<0.5% HCl	Class PH120	120mm	Enhanced	
70	One	Complies	C, W, Z	<0.5% HCl	Class PH120	120mm	Enhanced	
95	One	Complies	C, W, Z	<0.5% HCl	Class PH120	120mm	Enhanced	
120	One	Complies	C, W, Z	<0.5% HCl	Class PH120	120mm	Enhanced	
150	One	Complies	C, W, Z	<0.5% HCl	-	-	-	
185	One	Complies	C, W, Z	<0.5% HCl	-	-	-	
240	One	Complies	C, W, Z	<0.5% HCl	-	-	-	
300	One	Complies	C, W, Z	<0.5% HCl	-	-	-	
400	One	Complies	C, W, Z	<0.5% HCl	-	-	-	
1.5	2, 3, 4 & 7	Complies	C, W, Z	<0.5% HCl	Class PH120	120mm	Enhanced	
2.5	2, 3, 4 & 7	Complies	C, W, Z	<0.5% HCl	Class PH120	120mm	Enhanced	
4.0	2	Complies	C, W, Z	<0.5% HCl	Class PH120	120mm	Enhanced	

A copy of the certificate, confirming the full scope of approval including notes relating to the superscript references in the above table, may be viewed online by clicking on the product name in the associated entry on www.RedBookLive.com

Mineral Insulated Cable Co Ltd

Temperature House, 21 Sedling Road, Wear Industrial Estate, Washington, Tyne & Wear NE38 9BZ, United Kingdom
Tel: +44 191 416 7777 • Fax: +44 191 419 2345
E-mail: sales@trmltd.co.uk • Website: www.temperature-house.com

Certificate No: 1039a to EN 60702-1:2002, BS 6387:2013 (category C,W,Z), EN 50267-2-1:1999, EN 50200:2006, BS 8434-2:2003+A2:2009 and BS 5839-1:2013 Clause 26.2e

MICC Wiring Cable

Nominal csa of conductor (mm^2)	Core Construction (excluding drain wire and earth)	EN 60702-1	BS 6387	EN 50267-2-1	EN 50200	BS 8434-2	BS 5839-1 Clause 26.2	LPCB Ref. No.
1.5	One, 2, 3, 4 & 7	Complies	C, W, Z	<0.5% HCl	Class PH120	120mm	Enhanced	1039a/01
2.5	One, 2, 3, 4 & 7	Complies	C, W, Z	<0.5% HCl	Class PH120	120mm	Enhanced	
4.0	One, 2, 3 & 4	Complies	C, W, Z	<0.5% HCl	Class PH120	120mm	Enhanced	
6.0	One, 2, 3 & 4	Complies	C, W, Z	<0.5% HCl	Class PH120	120mm	Enhanced	
10	One, 2, 3 & 4	Complies	C, W, Z	<0.5% HCl	Class PH120	120mm	Enhanced	
16	One, 2, 3 & 4	Complies	C, W, Z	<0.5% HCl	Class PH120	120mm	Enhanced	
25	One, 2, 3 & 4	Complies	C, W, Z	<0.5% HCl	Class PH120	120mm	Enhanced	
35	One	Complies	C, W, Z	<0.5% HCl	Class PH120	120mm	Enhanced	
50	One	Complies	C, W, Z	<0.5% HCl	Class PH120	120mm	Enhanced	
70	One	Complies	C, W, Z	<0.5% HCl	Class PH120	120mm	Enhanced	
95	One	Complies	C, W, Z	<0.5% HCl	Class PH120	120mm	Enhanced	
120	One	Complies	C, W, Z	<0.5% HCl	Class PH120	120mm	Enhanced	

Nominal csa of conductor (mm^2)	Core Construction (excluding drain wire and earth)	EN 60702-1	BS 6387	EN 50267-2-1	EN 50200	BS 8434-2	BS 5839-1 Clause 26.2	LPCB Ref. No.
150	One	Complies	C, W, Z	<0.5% HCl	-	-	-	
185	One	Complies	C, W, Z	<0.5% HCl	-	-	-	
240	One	Complies	C, W, Z	<0.5% HCl	-	-	-	
300	One	Complies	C, W, Z	<0.5% HCl	-	-	-	
400	One	Complies	C, W, Z	<0.5% HCl	-	-	-	
1.5	2, 3, 4 & 7	Complies	C, W, Z	<0.5% HCl	Class PH120	120mm	Enhanced	
2.5	2, 3, 4 & 7	Complies	C, W, Z	<0.5% HCl	Class PH120	120mm	Enhanced	
4.0	2	Complies	C, W, Z	<0.5% HCl	Class PH120	120mm	Enhanced	

A copy of the certificate, confirming the full scope of approval including notes relating to the superscript references in the above table, may be viewed online by clicking on the product name in the associated entry on www.RedBookLive.com

National Cables Industry

Plot No. 06, Al Sajja Industrial Estate, Al Dhaid Road, Sharjah, United Arab Emirates
Tel: 00971 65311888
E-mail: altaf@nci.ae • Website: www.nci.ae

Certificate No: 1246a to BS 7846:2015 Cat F2

Nominal csa of conductor (mm^2)	Core Construction	BS 7846	LPCB Ref. No.
1.5	2, 3 & 4	F2	1246a/01
2.5	2, 3 & 4	F2	
4	2, 3 & 4	F2	
6	2, 3 & 4	F2	
10	2, 3 & 4	F2	
16	2, 3 & 4	F2	
25	2, 3 & 4	F2	
35	2, 3 & 4	F2	
50	2, 3 & 4	F2	
70	2, 3 & 4	F2	
95	2, 3 & 4	F2	
120	2, 3 & 4	F2	
150	2, 3 & 4	F2	
185	2, 3 & 4	F2	
240	2, 3 & 4	F2	
300	2, 3 & 4	F2	
400	2, 3 & 4	F2	

A copy of the certificate, confirming the full scope of approval including notes relating to the superscript references in the above table, may be viewed online by clicking on the product name in the associated entry on www.RedBookLive.com

Certificate No: 1246b to BS 6387:2013 (Category CWZ)
EN 60754-1:2014
EN 61034-2:2005 + A2:2020
IEC 60331-21:1999

NCI-FP1

Nominal csa of conductor (mm^2)	Core Construction (excluding drain wire and earth)	BS 6387	EN 60754-1	EN 61034-2	IEC 60331-21	LPCB Ref. No.
1.5	One	CWZ	<0.5% HCl	>60%	(90+15) minutes	1246b/01
2.5	One	CWZ	<0.5% HCl	>60%	(90+15) minutes	
4.0	One	CWZ	<0.5% HCl	>60%	(90+15) minutes	

Nominal csa of conductor (mm^2)	Core Construction (excluding drain wire and earth)	BS 6387	EN 60754-1	EN 61034-2	IEC 60331-21	LPCB Ref. No.
6.0	One	CWZ	<0.5% HCl	>60%	(90+15) minutes	
10	One	CWZ	<0.5% HCl	>60%	(90+15) minutes	
16	One	CWZ	<0.5% HCl	>60%	(90+15) minutes	
25	One	CWZ	<0.5% HCl	>60%	(90+15) minutes	
35	One	CWZ	<0.5% HCl	>60%	(90+15) minutes	
50	One	CWZ	<0.5% HCl	>60%	(90+15) minutes	
70	One	CWZ	<0.5% HCl	>60%	(90+15) minutes	
95	One	CWZ	<0.5% HCl	>60%	(90+15) minutes	
120	One	C	<0.5% HCl	>60%	(90+15) minutes	
150	One	C	<0.5% HCl	>60%	(90+15) minutes	
185	One	C	<0.5% HCl	>60%	(90+15) minutes	
240	One	C	<0.5% HCl	>60%	(90+15) minutes	
300	One	C	<0.5% HCl	>60%	(90+15) minutes	
400	One	C	<0.5% HCl	>60%	(90+15) minutes	
500	One	-	<0.5% HCl	>60%	(90+15) minutes	
630	One	-	<0.5% HCl	>60%	(90+15) minutes	

A copy of the certificate, confirming the full scope of approval including notes relating to the superscript references in the above table, may be viewed online by clicking on the product name in the associated entry on www.RedBookLive.com

Certificate No: 1246c to BS 6387:2013 (Category CWZ) EN 50200:2015 (PH120) BS 8434-2:2003+A1:2009 EN 60754-1:2014 EN 61034-2:2005+A1:2013 EN 60332-1-2:2004+A11:2016

NCI-FP2

Nominal csa of conductor (mm^2)	Core Construction (excluding drain wire and earth)	BS 6387	EN 50200	BS 8434-2	EN 61034-2	EN 60754-1	LPCB Ref. No.
1.5	2, 3 & 4	CWZ	PH120	120 mins	>60%	<0.5% HCl	1246c/01
2.5	2, 3 & 4	CWZ	PH120	120 mins	>60%	<0.5% HCl	
4.0	2, 3 & 4	CWZ	PH120	120 mins	>60%	<0.5% HCl	

A copy of the certificate, confirming the full scope of approval including notes relating to the superscript references in the above table, may be viewed online by clicking on the product name in the associated entry on www.RedBookLive.com

Certificate No: 1246e to BS 7846: 2015 Cat F2 & F120

NCI-FP6

Nominal csa of conductor (mm^2)	Core Construction	BS 7846	LPCB Ref. No.
16	2, 3 & 4	F2 & F120	1246e/01
25	2, 3 & 4	F2 & F120	
35	2, 3 & 4	F2 & F120	
50	2, 3 & 4	F2 & F120	
70	2, 3 & 4	F2 & F120	
95	2, 3 & 4	F2 & F120	
120	2, 3 & 4	F2 & F120	
150	2, 3 & 4	F2 & F120	
185	2, 3 & 4	F2 & F120	
240	2, 3 & 4	F2 & F120	
300	2, 3 & 4	F2 & F120	

Nominal csa of conductor (mm^2)	Core Construction	BS 7846	LPCB Ref. No.
400	2, 3 & 4	F2 & F120	

A copy of the certificate, confirming the full scope of approval including notes relating to the superscript references in the above table, may be viewed online by clicking on the product name in the associated entry on www.RedBookLive.com

Certificate No: 1246d to BS 7629-1:2015 Enhanced 120 BS 6387:2013 (Category CWZ) EN 50200:2015 (Class PH120) BS 8434-2:2003+A2:2009 (120 mins) EN 60754-1:2014 EN 61034-2:2005+A1:2013

NCI-FP3

Nominal csa of conductor (mm^2)	Core Construction (excluding drain wire and earth)	BS 7629-1	BS 6387	BS 8434-2	EN 50200	EN 60754-1	LPCB Ref. No.
1.5	2, 3 & 4	Enhanced 120	CWZ	120 mins	PH120	<0.5% HCl	1246d/01
2.5	2, 3 & 4	Enhanced 120	CWZ	120 mins	PH120	<0.5% HCl	
4.0	2, 3 & 4	Enhanced 120	CWZ	120 mins	PH120	<0.5% HCl	

A copy of the certificate, confirming the full scope of approval including notes relating to the superscript references in the above table, may be viewed online by clicking on the product name in the associated entry on www.RedBookLive.com

Certificate No: 1246f to IEC 60331-21:1999
IEC 61034-2:2005+A2:2020
IEC 60754-1:2014

NCI-FP5

Nominal csa of conductor (mm^2)	Core Construction	IEC 60331-21	EN 61034-2	EN 60754-1	LPCB Ref. No.
95	One	(180+15) minutes	>60%	<0.5% HCl	1246f/01
120	One	(180+15) minutes	>60%	<0.5% HCl	
150	One	(180+15) minutes	>60%	<0.5% HCl	
185	One	(180+15) minutes	>60%	<0.5% HCl	
240	One	(180+15) minutes	>60%	<0.5% HCl	
300	One	(180+15) minutes	>60%	<0.5% HCl	
400	One	(180+15) minutes	>60%	<0.5% HCl	
500	One	(180+15) minutes	>60%	<0.5% HCl	
630	One	(180+15) minutes	>60%	<0.5% HCl	

A copy of the certificate, confirming the full scope of approval including notes relating to the superscript references in the above table, may be viewed online by clicking on the product name in the associated entry on www.RedBookLive.com

Newage Cables Pvt Ltd

Newage House 33K, Gulberg-2, Lahore 54660, Pakistan
Tel: +92 300 846 1900
E-mail: amer@newagecables.com • Website: www.newagecables.com

Certificate No: 1518a to BS 6387:2013 (Category CWZ) BS 8491:2008 EN 61034-2:2005+A1:2013 EN 60754-1:2014 EN 60754-2:2014 IEC 60331-21:1999 EN 60332-3-24:2009

NF 1000

Nominal csa of conductor (mm^2)	Core Construction	BS 6387	BS 8491	EN 61034-2	EN 60754-1	EN 60754-2	EN 60332-3-24	IEC 60331-21	LPCB Ref. No.
16	2, 3 & 4	-	120 mins	>60%	<0.5% HCl	Complies	Complies	-	1518a/01
25	2, 3 & 4	-	120 mins	>60%	<0.5% HCl	Complies	Complies		
35	2, 3 & 4	-	120 mins	>60%	<0.5% HCl	Complies	Complies		
50	2, 3 & 4	-	120 mins	>60%	<0.5% HCl	Complies	Complies		
70	2, 3 & 4	-	120 mins	>60%	<0.5% HCl	Complies	Complies		
95	2, 3 & 4	-	120 mins	>60%	<0.5% HCl	Complies	Complies		

Nominal csa of conductor (mm^2)	Core Construction	BS 6387	BS 8491	EN 61034-2	EN 60754-1	EN 60754-2	EN 60332-3-24	IEC 60331-21	LPCB Ref. No.
120	2, 3 & 4	-	120 mins	>60%	<0.5% HCl	Complies	Complies		
150	2, 3 & 4	-	120 mins	>60%	<0.5% HCl	Complies	Complies		
185	2, 3 & 4	-	120 mins	>60%	<0.5% HCl	Complies	Complies		
240	2, 3 & 4	-	120 mins	>60%	<0.5% HCl	Complies	Complies		
300	2, 3 & 4	-	120 mins	>60%	<0.5% HCl	Complies	Complies		
400	4	CWZ	120 mins	>60%	<0.5% HCl	Complies	Complies	Complies	
400	2 & 3	-	120 mins	>60%	<0.5% HCl	Complies	Complies		

A copy of the certificate, confirming the full scope of approval including notes relating to the superscript references in the above table, may be viewed online by clicking on the product name in the associated entry on www.RedBookLive.com

Nexans Turkiye Endustri ve Ticaret A.S.

Bozburun Mahallesi, Ahmet Nuri Erikoglu Caddesi No: 2, Denizli, Turkey
Tel: 0090 212 266 0160 • Fax: 0090 212 266 0170
E-mail: Info.turkey@nexans.com • Website: www.nexans.com.tr

Certificate No: 946c to BS 6387:2013 EN 61034-2:2005+A1:2013 EN 60754-1:2014 EN 60754-2:2014 EN 60332-3-23:2009 EN 60332-3-24:2009 EN 50200:2006 (Class PH120) IEC 60331-21:1999

ALSECURE PLUS NX300

Nominal csa of conductor (mm^2)	Core Construction (excluding drain wire and earth)	BS 6387	EN 61034-2	EN 60754-1	EN 60754-2	EN 60332-3-24	EN 60331-21	EN 50200	EN 60332-3-23	LPCB Ref. No.
1.5	One	CWZ	>60%	<0.5% HCl	Complies	-	Complies	PH120	-	946c/01
2.5	One	CWZ	>60%	<0.5% HCl	Complies	-	Complies	PH120	-	
4.0	One	CWZ	>60%	<0.5% HCl	Complies	-	Complies	PH120	-	
6.0	One	CWZ	>60%	<0.5% HCl	Complies	-	Complies	PH120	-	
10	One	CWZ	>60%	<0.5% HCl	Complies	-	Complies	PH120	-	
16	One	CWZ	>60%	<0.5% HCl	Complies	-	Complies	PH120	-	
25	One	CWZ	>60%	<0.5% HCl	Complies	-	Complies	PH120	-	
35	One	CWZ	>60%	<0.5% HCl	Complies	-	Complies	PH120	-	
50	One	C	>60%	<0.5% HCl	Complies	Complies	Complies	-	-	
70	One	C	>60%	<0.5% HCl	Complies	Complies	Complies	-	-	
95	One	C	>60%	<0.5% HCl	Complies	Complies	Complies	-	-	
120	One	C	>60%	<0.5% HCl	Complies	Complies	Complies	-	-	
150	One	C	>60%	<0.5% HCl	Complies	Complies	Complies	-	-	
185	One	C	>60%	<0.5% HCl	Complies	Complies	Complies	-	-	
240	One	C	>60%	<0.5% HCl	Complies	Complies	Complies	-	-	
300	One	C	>60%	<0.5% HCl	Complies	Complies	Complies	-	-	
400	One	-	>60%	<0.5% HCl	Complies	Complies	Complies	-	-	
500	One	-	>60%	<0.5% HCl	Complies	Complies	Complies	-	-	
630	One	-	>60%	<0.5% HCl	Complies	Complies	Complies	-	-	
800	One	-	>60%	<0.5% HCl	Complies	Complies	Complies	-	-	
1000	One	-	>60%	<0.5% HCl	Complies	Complies	Complies	-	-	
1.5	2, 3 & 4	CWZ	>60%	<0.5%HCl	Complies	Complies	Complies	PH 120	Complies	946c/02
2.5	2, 3 & 4	CWZ	>60%	<0.5%HCl	Complies	Complies	Complies	PH 120	Complies	
4.0	2, 3 & 4	CWZ	>60%	<0.5%HCl	Complies	Complies	Complies	PH 120	Complies	
6.0	2, 3 & 4	CWZ	>60%	<0.5%HCl	Complies	Complies	Complies	PH 120	Complies	
10	2, 3 & 4	CWZ	>60%	<0.5%HCl	Complies	Complies	Complies	-	Complies	
16	2, 3 & 4	CWZ	>60%	<0.5%HCl	Complies	Complies	Complies	-	Complies	
25	2, 3 & 4	CWZ	>60%	<0.5%HCl	Complies	Complies	Complies	-	Complies	
35	2, 3 & 4	CWZ	>60%	<0.5%HCl	Complies	Complies	Complies	-	Complies	
50	2, 3 & 4	CWZ	>60%	<0.5%HCl	Complies	Complies	Complies	-	Complies	
70	2, 3 & 4	CWZ	>60%	<0.5%HCl	Complies	Complies	Complies	-	Complies	
95	2, 3 & 4	CWZ	>60%	<0.5%HCl	Complies	Complies	Complies	-	Complies	
120	2, 3 & 4	CWZ	>60%	<0.5%HCl	Complies	Complies	Complies	-	Complies	
150	2, 3 & 4	CWZ	>60%	<0.5%HCl	Complies	Complies	Complies	-	Complies	
185	2, 3 & 4	CWZ	>60%	<0.5%HCl	Complies	Complies	Complies	-	Complies	
240	2, 3 & 4	CWZ	>60%	<0.5%HCl	Complies	Complies	Complies	-	Complies	
300	2, 3 & 4	CWZ	>60%	<0.5%HCl	Complies	Complies	Complies	-	Complies	
400	2, 3 & 4	CWZ	>60%	<0.5%HCl	Complies	Complies	Complies	-	Complies	

A copy of the certificate, confirming the full scope of approval including notes relating to the superscript references in the above table, may be viewed online by clicking on the product name in the associated entry on www.RedBookLive.com

Certificate No: 946a to BS 7846: 2015 (Category F2) EN 50200:2015 PH120

NX 400 ALSECURE PLUS

Nominal csa of conductor (mm^2)	Core Construction	BS 7846	EN 50200	LPCB Ref. No.
1.5	2,3 & 4	F2	PH120	946a/01
1.5	5,7,12,19,27 & 37	F2	-	
2.5	2,3 & 4	F2	PH120	
2.5	5,7,12,19,27 & 37	F2	-	
4.0	2,3 & 4	F2	PH120	
4.0	5,7,12,19,27 & 37	F2	-	
6.0	5	F2	-	
6.0	2, 3 & 4	F2	PH120	
10	2,3,4 & 5	F2	-	
16	2,3,4 & 5	F2	-	
25	2,3,4 & 5	F2	-	
35	2,3,4 & 5	F2	-	
50	2,3,4 & 5	F2	-	
70	2,3,4 & 5	F2	-	
95	2,3 & 4	F2	-	
120	2,3 & 4	F2	-	
150	2, 3 & 4	F2	-	
185	2,3 & 4	F2	-	
240	2,3 & 4	F2	-	
300	2,3 & 4	F2	-	
400	2,3 & 4	F2	-	

A copy of the certificate, confirming the full scope of approval including notes relating to the superscript references in the above table, may be viewed online by clicking on the product name in the associated entry on www.RedBookLive.com

Certificate No: 946b to BS 8592:2016 BS 6387:2013 CWZ EN 50200:2015 PH120 EN 50200:2015 Annex E BS 8434-2:2003+A2:2009 (120 mins) IEC 60331-21:1999 EN 61034-2:2005+A1:2013 EN 60754-1:2014

NX 100 ALSECURE PLUS

Nominal csa of conductor (mm^2)	Core Construction	BS 8592	BS 6387	EN 50200	BS 8434-2	EN 60754-2	EN 61034-2	IEC 60331-21	LPCB Ref. No.
1.5	One	Complies	C, W, Z	PH120 Annex E	120 mins	Complies	>60%	Complies	946b/01
2.5	One	Complies	C, W, Z	PH120 Annex E	120 mins	Complies	>60%	Complies	
4.0	One	Complies	C, W, Z	PH120 Annex E	120 mins	Complies	>60%	Complies	
6.0	One	Complies	C, W, Z	PH120 Annex E	120 mins	Complies	>60%	Complies	
10	One	Complies	C, W, Z	PH120 Annex E	120 mins	Complies	>60%	Complies	
16	One	Complies	C, W, Z	PH120 Annex E	120 mins	Complies	>60%	Complies	
25	One	Complies	C, W, Z	PH120 Annex E	120 mins	Complies	>60%	Complies	
35	One	Complies	C, W, Z	PH120 Annex E	120 mins	Complies	>60%	Complies	
50	One	Complies	C, W, Z	PH120 Annex E	120 mins	Complies	>60%	Complies	
70	One	Complies	C, W, Z	PH120 Annex E	120 mins	Complies	>60%	Complies	
95	One	-	C, W, Z	PH120 Annex E	-	Complies	>60%	Complies	
120	One	-	C	-	-	Complies	>60%	Complies	
150	One	-	C	-	-	Complies	>60%	Complies	
185	One	-	C	-	-	Complies	>60%	Complies	
240	One	-	C	-	-	Complies	>60%	Complies	
300	One	-	C	-	-	Complies	>60%	Complies	

A copy of the certificate, confirming the full scope of approval including notes relating to the superscript references in the above table, may be viewed online by clicking on the product name in the associated entry on www.RedBookLive.com

Certificate No: 946d to BS 7846:2015 (Category F2 & F120) EN 60754-2:2014 IEC 60331-21:1999 BS 8519:2010 (Clause 11 Category 3)

NX 600 ALSECURE PLUS

Nominal csa of conductor (mm^2)	Core Construction	BS 7846	EN 60754-2	IEC 60331-21	BS 8519 Clause 11	LPCB Ref. No.
4.0	2, 3, 4 & 5	F2 & F120	Complies	(90+15) minutes	Category 3	946d/01
6.0	2, 3, 4 & 5	F2 & F120	Complies	(90+15) minutes	Category 3	
10	2, 3, 4 & 5	F2 & F120	Complies	(90+15) minutes	Category 3	
16	2, 3, 4 & 5	F2 & F120	Complies	(90+15) minutes	Category 3	
25	2, 3, 4 & 5	F2 & F120	Complies	(90+15) minutes	Category 3	
35	2, 3, 4 & 5	F2 & F120	Complies	(90+15) minutes	Category 3	
50	2, 3, 4 & 5	F2 & F120	Complies	(90+15) minutes	Category 3	
70	2, 3, 4 & 5	F2 & F120	Complies	(90+15) minutes	Category 3	
95	2, 3 & 4	F2 & F120	Complies	(90+15) minutes	Category 3	
120	3 & 4	F2 & F120	Complies	(90+15) minutes	Category 3	
150	3 & 4	F2 & F120	Complies	(90+15) minutes	Category 3	
185	3 & 4	F2 & F120	Complies	(90+15) minutes	Category 3	
240	3 & 4	F2 & F120	Complies	(90+15) minutes	Category 3	
300	3 & 4	F2 & F120	Complies	(90+15) minutes	Category 3	
400	3 & 4	F2 & F120	Complies	(90+15) minutes	Category 3	

A copy of the certificate, confirming the full scope of approval including notes relating to the superscript references in the above table, may be viewed online by clicking on the product name in the associated entry on www.RedBookLive.com

Ningbo Haishu Tianyu Cables & Wire Co., Ltd

Zhongyi Village, Gulin Town, Haishu District, Ningbo City, Zheijiang Province 315177, China
Tel: +86 574 2788 6208 • Fax: +86 574 8829 0822
E-mail: minpor@minpor.com • Website: www.minpor.com

Certificate No: 1569a to BS 7629-1:2015 Enhanced 120 BS 6387:2013 (Category CWZ) BS 5839-1:2013 (Clause 26.2e Enhanced)

Minpor Fire Resistance Cable

Nominal csa of conductor (mm^2)	Core Construction (excluding drain wire and earth)	BS 7629-1	BS 6387	BS 5839-1 Clause 26.2e	LPCB Ref. No.
1.0	2	Enhanced 120	CWZ	Enhanced	1569a/01
1.5	2, 3 & 4	Enhanced 120	CWZ	Enhanced	
2.5	2, 3 & 4	Enhanced 120	CWZ	Enhanced	
4.0	2, 3 & 4	Enhanced 120	CWZ	Enhanced	

A copy of the certificate, confirming the full scope of approval including notes relating to the superscript references in the above table, may be viewed online by clicking on the product name in the associated entry on www.RedBookLive.com

Certificate No: 1569c to EN 50200:2015 (Class PH120)
EN 60754-1:2014
EN 61034-2:2005+A2:2020

Minpor Firemin 120

Nominal csa of conductor (mm^2)	Core Construction (excluding drain wire and earth)	EN 50200	EN 60754-1	EN 61034-2	LPCB Ref. No.
0.5	2, 3 & 4	PH 120	<0.5% HCl	>60%	1569c/01
0.75	2, 3 & 4	PH 120	<0.5% HCl	>60%	
1.0	2, 3 & 4	PH 120	<0.5% HCl	>60%	
1.5	2, 3 & 4	PH 120	<0.5% HCl	>60%	
2.5	2, 3 & 4	PH 120	<0.5% HCl	>60%	
4.0	2, 3 & 4	PH 120	<0.5% HCl	>60%	
6.0	2, 3 & 4	PH 120	<0.5% HCl	>60%	
0.5	2, 3 & 4	PH 120	<0.5% HCl	>60%	1569c/02
0.75	2, 3 & 4	PH 120	<0.5% HCl	>60%	
1.0	2, 3 & 4	PH 120	<0.5% HCl	>60%	
1.5	2, 3 & 4	PH 120	<0.5% HCl	>60%	
2.5	2, 3 & 4	PH 120	<0.5% HCl	>60%	
4.0	2, 3 & 4	PH 120	<0.5% HCl	>60%	
6.0	2, 3 & 4	PH 120	<0.5% HCl	>60%	

A copy of the certificate, confirming the full scope of approval including notes relating to the superscript references in the above table, may be viewed online by clicking on the product name in the associated entry on www.RedBookLive.com

Norden Communication UK Ltd

Unit 13 Baker Close, Oakwood Business Park, Clacton-On-Sea, Essex CO15 4BD, United Kingdom
Tel: +44 (0) 207 788 7663 • Fax: +44 (0) 203 292 1987
E-mail: sales@nordencommunication.com • Website: www.nordencommunication.com

Certificate No: 1469a-(cl-1) to BS 7629-1:2015 (Standard 60) BS 6387:2013 (Category CWZ) BS 5839-1:2013 (Clause 26.2d Standard) EN 50200:2015 (Class PH120) EN 50200: 2015 Annex E EN 60754-2:2014 EN 60332-3-22:2009

Firenor Premium Cable

Nominal csa of conductor (mm^2)	Core Construction (excluding drain wire and earth)	BS 7629-1	BS 6387	EN 50200	EN 50200 Annex E	BS 5839-1 Clause 26.2d	EN 60754-2	EN 60332-3-22	LPCB Ref. No.
1.0	2	STANDARD 60	C, W, Z	Class PH120	30 min	Standard	Complies	Complies	1469a-(cl-1)/01
1.5	2, 3 & 4	STANDARD 60	C, W, Z	Class PH120	30 min	Standard	Complies	Complies	
2.5	2, 3 & 4	STANDARD 60	C, W, Z	Class PH120	30 min	Standard	Complies	Complies	
4.0	2, 3 & 4	STANDARD 60	C, W, Z	Class PH120	30 min	Standard	Complies	Complies	

A copy of the certificate, confirming the full scope of approval including notes relating to the superscript references in the above table, may be viewed online by clicking on the product name in the associated entry on www.RedBookLive.com

Certificate No: 1383a-(cl-3) to BS 6387:2013 (Category CWZ) EN 50200:2015 (Class PH30) EN 50200:2015 Annex E (30 mins) EN 61034-2:2005+A2:2020 EN 60754-1:2014 EN 60332-1-2:2004

NORDEN FIRENOR PH30 IMPROVED

Nominal csa of conductor (mm^2)	Core Construction	BS 6387	EN 50200	EN 50200 Annex E	EN 60754-1	EN 61034-2	EN 60332-1-2	LPCB Ref. No.
1.0	2, 3 & 4	C, W, Z	PH30	30 min	<0.5%	>60%	Complies	1383a-(cl-3)
1.5	2, 3 & 4	C, W, Z	PH30	30 min	<0.5%	>60%	Complies	
2.5	2, 3 & 4	C, W, Z	PH30	30 min	<0.5%	>60%	Complies	

A copy of the certificate, confirming the full scope of approval including notes relating to the superscript references in the above table, may be viewed online by clicking on the product name in the associated entry on www.RedBookLive.com

Nuhas Oman L.L.C

P.O Box 186, Road No. 2, Plot No. 70, Rusayl Industrial Estate 124, Sultanate of Oman
Tel: +968 24449007
Website: www.nuhasoman.com

Certificate No: 1341b to BS 7629-1:2015 Standard 60 EN 50200:2015 (Class PH120) EN 50200:2015 Annex E (30 mins) BS 5839-1:2013 (Clause 26.2d Standard)

Nominal csa of conductor (mm^2)	Core Construction	BS 7629-1	EN 50200	BS 5839-1 Clause 26.2d	LPCB Ref. No.
1.0	2	Standard 60	PH120	Standard	1341b/01
1.5	2 & 3	Standard 60	PH120	Standard	
2.5	2 & 3	Standard 60	PH120	Standard	

A copy of the certificate, confirming the full scope of approval including notes relating to the superscript references in the above table, may be viewed online by clicking on the product name in the associated entry on www.RedBookLive.com

Certificate No: 1341a to BS 7846:2015 Cat F2

FRC500 Cables

Nominal csa of conductor (mm^2)	Core Construction	BS 7846	LPCB Ref. No.
1.5	2, 3 & 4	F2	1341a/01
2.5	2, 3 & 4	F2	
4.0	2, 3 & 4	F2	
6.0	2, 3 & 4	F2	
10	2, 3 & 4	F2	
16	2, 3 & 4	F2	
25	2, 3 & 4	F2	
35	2, 3 & 4	F2	
50	2, 3 & 4	F2	
70	2, 3 & 4	F2	
95	2, 3 & 4	F2	
120	2, 3 & 4	F2	
150	2, 3 & 4	F2	
185	2, 3 & 4	F2	
240	2, 3 & 4	F2	
300	2, 3 & 4	F2	
400	2, 3 & 4	F2	

A copy of the certificate, confirming the full scope of approval including notes relating to the superscript references in the above table, may be viewed online by clicking on the product name in the associated entry on www.RedBookLive.com

Certificate No: 1341c to BS 6387:2013 (Category CWZ)
EN 50200:2015 (Class PH120)
EN 50200:2015 Annex E
EN 61034-2:2005+A2:2020
EN 60754-1:2014

Nominal csa of conductor (mm^2)	Core Construction(excluding drain wire)	BS 6387	EN50200	EN50200	EN 61034-2	EN 60754-1	LPCB Ref. No.
1.0	2, 3 & 4	CWZ	PH 120	Annex E	>60%	<0.5% HCl	1341c/01
1.5	2, 3 & 4	CWZ	PH 120	Annex E	>60%	<0.5% HCl	
2.5	2, 3 & 4	CWZ	PH 120	Annex E	>60%	<0.5% HCl	

A copy of the certificate, confirming the full scope of approval including notes relating to the superscript references in the above table, may be viewed online by clicking on the product name in the associated entry on www.RedBookLive.com

nVent Solutions (UK) Limited

nVent Thermal Belgium N.V, Romeinse Straat 14, 3001 Leuven, Belgium
Tel: +32 (0)16 21 35 45
E-mail: Gerry.DeBlick@nVent.com • Website: www.nVentthermal.com

Certificate No: 1659a to EN 60702-1:2002 +A1:2015
BS 6387:2013 (Category CWZ)
EN 60754-1:2014
EN 50200:2015 (Class PH120)
BS 8434-2:2003+A2:2009 (120 mins)
BS 5839-1:2013 (Clause 26.2e Enhanced)

PYRO MI Heavy Duty

Nominal csa of conductor (mm^2)	Core Construction (excluding drain wire and earth)	EN 60702-1	BS 6387	EN 60754-1	EN 50200	BS 8434-2	BS 5839-1 Clause 26.2e	LPCB Ref. No.
1.5	7, 12 & 19	Complies	C, W, Z	<0.5% HCl	PH120	Complies	Enhanced	1659a/01
1.5	One, 2, 3 & 4	Complies	C, W, Z	<0.5% HCl	PH120	Complies	Enhanced	
2.5	7 & 12	Complies	C, W, Z	<0.5% HCl	PH120	Complies	Enhanced	
2.5	One, 2, 3 & 4	Complies	C, W, Z	<0.5% HCl	PH120	Complies	Enhanced	
4.0	One, 2, 3 & 4	Complies	C, W, Z	<0.5% HCl	PH120	Complies	Enhanced	
6.0	One, 2, 3 & 4	Complies	C, W, Z	<0.5% HCl	PH120	Complies	Enhanced	
10	One, 2, 3 & 4	Complies	C, W, Z	<0.5% HCl	PH120	Complies	Enhanced	
16	One, 2, 3 & 4	Complies	C, W, Z	<0.5% HCl	PH120	Complies	Enhanced	
25	One, 2, 3 & 4	Complies	C, W, Z	<0.5% HCl	PH120	Complies	Enhanced	
35	One	Complies	C, W, Z	<0.5% HCl	PH120	Complies	Enhanced	
50	One	Complies	C, W, Z	<0.5% HCl	PH120	Complies	Enhanced	
70	One	Complies	C, W, Z	<0.5% HCl	PH120	Complies	Enhanced	
95	One	Complies	C, W, Z	<0.5% HCl	PH120	Complies	Enhanced	
120	One	Complies	C, W, Z	<0.5% HCl	PH120	Complies	Enhanced	
150	One	Complies	C, W, Z	<0.5% HCl	-	-	-	
185	One	Complies	C, W, Z	<0.5% HCl	-	-	-	
240	One	Complies	C, W, Z	<0.5% HCl	-	-	-	
300	One	Complies	C, W, Z	<0.5% HCl	-	-	-	
400	One	Complies	C, W, Z	<0.5% HCl	-	-	-	

Nominal csa of conductor (mm^2)	Core Construction (excluding drain wire and earth)	EN 60702-1	BS 6387	EN 60754-1	EN 50200	BS 8434-2	BS 5839-1 Clause 26.2e	LPCB Ref. No.
1.0	2, 3, 4 & 7	Complies	C, W, Z	<0.5% HCl	PH120	Complies	Enhanced	
1.5	2, 3, 4 & 7	Complies	C, W, Z	<0.5% HCl	PH120	Complies	Enhanced	
2.5	2, 3, 4 & 7	Complies	C, W, Z	<0.5% HCl	PH120	Complies	Enhanced	
4.0	2	Complies	C, W, Z	<0.5% HCl	PH120	Complies	Enhanced	
1.0	2	Complies	C, W, Z	<0.5% HCl	PH120	Complies	Enhanced	
1.5	2, 3 & 4	Complies	C, W, Z	<0.5% HCl	PH120	Complies	Enhanced	
2.5	2	Complies	C, W, Z	<0.5% HCl	PH120	Complies	Enhanced	
4.0	2	Complies	C, W, Z	<0.5% HCl	PH120	Complies	Enhanced	

A copy of the certificate, confirming the full scope of approval including notes relating to the superscript references in the above table, may be viewed online by clicking on the product name in the associated entry on www.RedBookLive.com

OLYMPIC CABLE COMPANY SDN. BHD.

Lot PT 2126-2131, Jalan PK1, Taman Perindustrian Krubong, 75250 Melaka, Malaysia
Tel: +606 337 3088 • Fax: +606 335 1911
E-mail: chauchiang.tan@olympic-cable.com.my • Website: www.olympic-cable.com.my

Certificate No: 1122a to BS 6387: 2013, EN 60754-1:2014, EN 60754-2:2014, EN 61034-2: 2005+A1:2013, IEC 60331-21: 1999, IEC 60332-3-22: 2009, IEC 60332-3-23:2009 and IEC 60332-3-24: 2009

OCC-F6C01

Nominal csa of conductor (mm^2)	Core Construction (excluding drain wire and earth)	BS 6387	EN 60754-1	EN 60754-2	EN 61034-2	IEC 60331-21	IEC 60332-3-22	IEC 60332-3-23	EN 60332-3-24	LPCB Ref. No.
1.5	One	C,W,Z	<0.5% HCl	Complies	>60%	Complies	Complies	Complies	-	1122a/01
2.5	One	C,W,Z	<0.5% HCl	Complies	>60%	Complies	Complies	Complies	-	
4.0	One	C,W,Z	<0.5% HCl	Complies	>60%	Complies	Complies	Complies	-	
6.0	One	C,W,Z	<0.5% HCl	Complies	>60%	Complies	Complies	Complies	-	
10	One	C,W,Z	<0.5% HCl	Complies	>60%	Complies	Complies	Complies	-	
16	One	C,W,Z	<0.5% HCl	Complies	>60%	Complies	Complies	Complies	-	
25	One	C,W,Z	<0.5% HCl	Complies	>60%	Complies	Complies	Complies	-	
35	One	C,W,Z	<0.5% HCl	Complies	>60%	Complies	Complies	Complies	Complies	
50	One	C,W,Z	<0.5% HCl	Complies	>60%	Complies	-	Complies	Complies	
70	One	C	<0.5% HCl	Complies	>60%	Complies	-	Complies	Complies	
95	One	C	<0.5% HCl	Complies	>60%	Complies	-	Complies	Complies	
120	One	C	<0.5% HCl	Complies	>60%	Complies	-	Complies	Complies	
150	One	C	<0.5% HCl	Complies	>60%	Complies	-	Complies	Complies	
185	One	C	<0.5% HCl	Complies	>60%	Complies	-	Complies	Complies	
240	One	C	<0.5% HCl	Complies	>60%	Complies	-	Complies	Complies	
300	One	C	<0.5% HCl	Complies	>60%	Complies	-	Complies	Complies	
400	One	C	<0.5% HCl	Complies	>60%	Complies	-	Complies	Complies	
500	One	C	<0.5% HCl	Complies	>60%	Complies	-	Complies	Complies	
630	One	C	<0.5% HCl	Complies	>60%	Complies	-	Complies	Complies	

A copy of the certificate, confirming the full scope of approval including notes relating to the superscript references in the above table, may be viewed online by clicking on the product name in the associated entry on www.RedBookLive.com

Certificate No: 1122b to BS 6387:2013 EN 60754-1:2014 EN 60754-2:2014 EN 61034-2:2005+A1:2013 IEC 60331-21:1999 IEC 60332-3-22:2009 IEC 60332-3-23:2009 IEC 60332-3-24:2009

FRMI-F6A01

Nominal csa of conductor (mm^2)	Core Construction (excluding drain wire and earth)	BS 6387	EN 60754-1	EN 60754-2	EN 61034-2	IEC 60331-21	IEc 60332-3-22	IEC 60332-3-23	IEC 60332-3-24	LPCB Ref. No.
16	One	CWZ	<0.5% HCl	Complies	>60%	Complies	Complies	Complies	Complies	1122b/01
25	One	CWZ	<0.5% HCl	Complies	>60%	Complies	-	Complies	Complies	
35	One	CWZ	<0.5% HCl	Complies	>60%	Complies	-	Complies	Complies	
50	One	CWZ	<0.5% HCl	Complies	>60%	Complies	-	Complies	Complies	
70	One	C	<0.5% HCl	Complies	>60%	Complies	-	Complies	Complies	
95	One	C	<0.5% HCl	Complies	>60%	Complies	-	Complies	Complies	
120	One	C	<0.5% HCl	Complies	>60%	Complies	-	Complies	Complies	
150	One	C	<0.5% HCl	Complies	>60%	Complies	-	Complies	Complies	
185	One	C	<0.5% HCl	Complies	>60%	Complies	-	Complies	Complies	
240	One	C	<0.5% HCl	Complies	>60%	Complies	-	Complies	Complies	
300	One	C	<0.5% HCl	Complies	>60%	Complies	-	Complies	Complies	
400	One	-	<0.5% HCl	Complies	>60%	Complies	-	Complies	Complies	
500	One	-	<0.5% HCl	Complies	>60%	Complies	-	Complies	Complies	
630	One	-	<0.5% HCl	Complies	>60%	Complies	-	Complies	Complies	

A copy of the certificate, confirming the full scope of approval including notes relating to the superscript references in the above table, may be viewed online by clicking on the product name in the associated entry on www.RedBookLive.com

Oman Cables Industry (SAOG)

Road No.2, Factory No. 206, Rusayl Industrial Estate, Rusayl, Muscat, Sultanate of Oman
Tel: +968 24443100 • Fax: +968 24446096
E-mail: omancables@omancables.com • Website: www.omancables.com

Certificate No: 995a to BS 7846:2015 Category F2

OCIFLAM-FSA

Nominal csa of conductor (mm^2)	Core Construction	BS 7846	LPCB Ref. No.
1.5	2, 3 & 4	F2	995a/01
2.5	2, 3 & 4	F2	
4.0	2, 3 & 4	F2	
6.0	2, 3 & 4	F2	
10	2, 3 & 4	F2	
16	2, 3 & 4	F2	
25	2, 3 & 4	F2	
35	2, 3 & 4	F2	
50	2, 3 & 4	F2	
70	2, 3 & 4	F2	
95	2, 3 & 4	F2	
120	2, 3 & 4	F2	
150	2, 3 & 4	F2	
185	2, 3 & 4	F2	
240	2, 3 & 4	F2	
300	2, 3 & 4	F2	
400	2, 3 & 4	F2	
1.5	2, 3 & 4	F2	995a/02
2.5	2, 3 & 4	F2	
4.0	2, 3 & 4	F2	
6.0	2, 3 & 4	F2	
10	2, 3 & 4	F2	
16	2, 3 & 4	F2	
25	2, 3 & 4	F2	
35	2, 3 & 4	F2	
50	2, 3 & 4	F2	

Nominal csa of conductor (mm^2)	Core Construction	BS 7846	LPCB Ref. No.
70	2, 3 & 4	F2	
95	2, 3 & 4	F2	
120	2, 3 & 4	F2	
150	2, 3 & 4	F2	
185	2, 3 & 4	F2	
240	2, 3 & 4	F2	
300	2, 3 & 4	F2	
400	2, 3 & 4	F2	

A copy of the certificate, confirming the full scope of approval including notes relating to the superscript references in the above table, may be viewed online by clicking on the product name in the associated entry on www.RedBookLive.com

Certificate No: 995c to BS 7846:2015 Category F2 & F120 EN 50200:2015 (Class PH120) EN 50200:2015 Annex E (30 mins) IEC 60331-21:1999

OCIFLAM1 PREMIUM and OCIFLAM2 PREMIUM

Nominal csa of conductor (mm^2)	Core Construction	BS 7846	EN 50200	EN 50200	IEC 60331-21	LPCB Ref. No.
1.5	2, 3 & 4	F2	PH120	Annex E	Complies	995c/01
2.5	2, 3 & 4	F2	PH120	Annex E	Complies	
4.0	2, 3 & 4	F2	PH120	Annex E	Complies	
6.0	2, 3 & 4	F2	PH120	Annex E	Complies	
10	2, 3 & 4	F2	-	-	Complies	
16	2, 3 & 4	F2	-	-	Complies	
25	2, 3 & 4	F2	-	-	Complies	
35	2, 3 & 4	F2	-	-	Complies	
50	2, 3 & 4	F2	-	-	Complies	
70	2, 3 & 4	F2	-	-	Complies	
95	2, 3 & 4	F2	-	-	Complies	
120	2, 3 & 4	F2	-	-	Complies	
150	2, 3 & 4	F2	-	-	Complies	
185	2, 3 & 4	F2	-	-	Complies	
240	2, 3 & 4	F2	-	-	Complies	
300	2, 3 & 4	F2	-	-	Complies	
400	2, 3 & 4	F2	-	-	Complies	
10	2, 3 & 4	F2 & F120	-	-	Complies	995c/02
16	2, 3 & 4	F2 & F120	-	-	Complies	
25	2, 3 & 4	F2 & F120	-	-	Complies	
35	2, 3 & 4	F2 & F120	-	-	Complies	
50	2, 3 & 4	F2 & F120	-	-	Complies	
70	2, 3 & 4	F2 & F120	-	-	Complies	
95	2, 3 & 4	F2 & F120	-	-	Complies	
120	2, 3 & 4	F2 & F120	-	-	Complies	
150	2, 3 & 4	F2 & F120	-	-	Complies	
185	2, 3 & 4	F2 & F120	-	-	Complies	
240	2, 3 & 4	F2 & F120	-	-	Complies	
300	2, 3 & 4	F2 & F120	-	-	Complies	
400	2, 3 & 4	F2 & F120	-	-	Complies	

A copy of the certificate, confirming the full scope of approval including notes relating to the superscript references in the above table, may be viewed online by clicking on the product name in the associated entry on www.RedBookLive.com

Certificate No: 995d to BS 7629-1:2015 (Standard 60) BS 6387:2013 (Category CWZ) EN 50200:2015 (Class PH120) EN 50200:2015 Annex E BS 5839-1:2017 (Clause 26.2d Standard)

OCIFLAM X

Nominal csa of conductor (mm^2)	Core Construction	BS 7629-1	BS 6387	EN 50200	EN 50200	BS 5839-1	LPCB Ref. No.
1.5	2	Standard 60	C, W, Z	PH 120	Annex E	Clause 26.2d	995d/01
2.5	2	Standard 60	C, W, Z	PH 120	Annex E	Clause 26.2d	

A copy of the certificate, confirming the full scope of approval including notes relating to the superscript references in the above table, may be viewed online by clicking on the product name in the associated entry on www.RedBookLive.com

Certificate No: 995b to BS 6387:2013 Category (CWZ) EN 60754-1:2014 EN 61034-2:2005+A1:2013 IEC 60332-3-24:2009 IEC 60331-21:1999

OCIFLAM-FS1

Nominal csa of conductor (mm^2)	Core Construction	BS 6387	EN 60754-1	EN 61034-2	IEC 60332-3-24	IEC 60331-21	LPCB Ref. No.
1.5	One	CWZ	<0.5% HCl	>60%	Complies	(90+15) minutes	995b/01
2.5	One	CWZ	<0.5% HCl	>60%	Complies	(90+15) minutes	
4.0	One	CWZ	<0.5% HCl	>60%	Complies	(90+15) minutes	
6.0	One	CWZ	<0.5% HCl	>60%	Complies	(90+15) minutes	
10	One	CWZ	<0.5% HCl	>60%	Complies	(90+15) minutes	
16	One	CWZ	<0.5% HCl	>60%	Complies	(90+15) minutes	
25	One	CWZ	<0.5% HCl	>60%	Complies	(90+15) minutes	
35	One	CWZ	<0.5% HCl	>60%	Complies	(90+15) minutes	
50	One	CWZ	<0.5% HCl	>60%	Complies	(90+15) minutes	
70	One	CWZ	<0.5% HCl	>60%	Complies	(90+15) minutes	
95	One	CWZ	<0.5% HCl	>60%	Complies	(90+15) minutes	
120	One	C	<0.5% HCl	>60%	Complies	(90+15) minutes	
150	One	C	<0.5% HCl	>60%	Complies	(90+15) minutes	
185	One	C	<0.5% HCl	>60%	Complies	(90+15) minutes	
240	One	C	<0.5% HCl	>60%	Complies	(90+15) minutes	
300	One	C	<0.5% HCl	>60%	Complies	(90+15) minutes	
400	One	C	<0.5% HCl	>60%	Complies	(90+15) minutes	
500	One	C	<0.5% HCl	>60%	Complies	(90+15) minutes	
630	One	-	<0.5% HCl	>60%	Complies	(90+15) minutes	
1.5	One	CWZ	<0.5% HCl	>60%	-	(90+15) minutes	995b/02
2.5	One	CWZ	<0.5% HCl	>60%	-	(90+15) minutes	
4.0	One	CWZ	<0.5% HCl	>60%	-	(90+15) minutes	
6.0	One	CWZ	<0.5% HCl	>60%	-	(90+15) minutes	
10	One	CWZ	<0.5% HCl	>60%	-	(90+15) minutes	
16	One	CWZ	<0.5% HCl	>60%	-	(90+15) minutes	
25	One	CWZ	<0.5% HCl	>60%	-	(90+15) minutes	
35	One	CWZ	<0.5% HCl	>60%	-	(90+15) minutes	
50	One	CWZ	<0.5% HCl	>60%	-	(90+15) minutes	
70	One	CWZ	<0.5% HCl	>60%	-	(90+15) minutes	
95	One	CWZ	<0.5% HCl	>60%	Complies	(90+15) minutes	
120	One	C	<0.5% HCl	>60%	Complies	(90+15) minutes	
150	One	C	<0.5% HCl	>60%	Complies	(90+15) minutes	
185	One	C	<0.5% HCl	>60%	Complies	(90+15) minutes	

Nominal csa of conductor (mm^2)	Core Construction	BS 6387	EN 60754-1	EN 61034-2	IEC 60332-3-24	IEC 60331-21	LPCB Ref. No.
240	One	C	<0.5% HCl	>60%	Complies	(90+15) minutes	
300	One	C	<0.5% HCl	>60%	Complies	(90+15) minutes	
400	One	C	<0.5% HCl	>60%	Complies	(90+15) minutes	
500	One	C	<0.5% HCl	>60%	Complies	(90+15) minutes	
630	One	-	<0.5% HCl	>60%	Complies	(90+15) minutes	

A copy of the certificate, confirming the full scope of approval including notes relating to the superscript references in the above table, may be viewed online by clicking on the product name in the associated entry on www.RedBookLive.com

Certificate No: 995e to BS 7846:2015 (Category F2)

PRYSMIAN (O) FP400

Nominal csa of conductor (mm^2)	Core Construction	BS 7846	LPCB Ref. No.
1.5	2, 3 & 4	F2	995e/01
2.5	2, 3 & 4	F2	
4.0	2, 3 & 4	F2	
6.0	2, 3 & 4	F2	
10	2, 3 & 4	F2	
16	2, 3 & 4	F2	
25	2, 3 & 4	F2	
35	2, 3 & 4	F2	
50	2, 3 & 4	F2	
70	2, 3 & 4	F2	
95	2, 3 & 4	F2	
120	2, 3 & 4	F2	
150	2, 3 & 4	F2	
185	2, 3 & 4	F2	
240	2, 3 & 4	F2	
300	2, 3 & 4	F2	
400	2, 3 & 4	F2	
1.5	2, 3 & 4	F2	995e/02
2.5	2, 3 & 4	F2	
4.0	2, 3 & 4	F2	
6.0	2, 3 & 4	F2	
10	2, 3 & 4	F2	
16	2, 3 & 4	F2	
25	2, 3 & 4	F2	
35	2, 3 & 4	F2	
50	2, 3 & 4	F2	
70	2, 3 & 4	F2	
95	2, 3 & 4	F2	
120	2, 3 & 4	F2	
150	2, 3 & 4	F2	
185	2, 3 & 4	F2	
240	2, 3 & 4	F2	
300	2, 3 & 4	F2	
400	2, 3 & 4	F2	

A copy of the certificate, confirming the full scope of approval including notes relating to the superscript references in the above table, may be viewed online by clicking on the product name in the associated entry on www.RedBookLive.com

Certificate No: 995f to BS 7846:2015 (Category F2)

DRAKA (O) FTP

Nominal csa of conductor (mm2)	Core Construction	BS 7846	LPCB Ref. No.
1.5	2, 3 & 4	F2	995f/01
2.5	2, 3 & 4	F2	
4.0	2, 3 & 4	F2	
6.0	2, 3 & 4	F2	
10	2, 3 & 4	F2	
16	2, 3 & 4	F2	
25	2, 3 & 4	F2	

Nominal csa of conductor (mm2)	Core Construction	BS 7846	LPCB Ref. No.
35	2, 3 & 4	F2	
50	2, 3 & 4	F2	
70	2, 3 & 4	F2	
95	2, 3 & 4	F2	
120	2, 3 & 4	F2	
150	2, 3 & 4	F2	
185	2, 3 & 4	F2	
240	2, 3 & 4	F2	
300	2, 3 & 4	F2	
400	2, 3 & 4	F2	
1.5	2, 3 & 4	F2	995f/02
2.5	2, 3 & 4	F2	
4.0	2, 3 & 4	F2	
6.0	2, 3 & 4	F2	
10	2, 3 & 4	F2	
16	2, 3 & 4	F2	
25	2, 3 & 4	F2	
35	2, 3 & 4	F2	
50	2, 3 & 4	F2	
70	2, 3 & 4	F2	
95	2, 3 & 4	F2	
120	2, 3 & 4	F2	
150	2, 3 & 4	F2	
185	2, 3 & 4	F2	
240	2, 3 & 4	F2	
300	2, 3 & 4	F2	
400	2, 3 & 4		

A copy of the certificate, confirming the full scope of approval including notes relating to the superscript references in the above table, may be viewed online by clicking on the product name in the associated entry on www.RedBookLive.com

Paramount Communications Limited

Plot No. SP-30A, SP-30B & E-31, RIICO Industrial Area, Khushkhera (Near Bhiwadi), Budi Bawal (Karoli), Alwar, Rajasthan 301 707, India
Tel: +91 997 171 2846 • Fax: +91 149 325 0222
E-mail: mktg@paramountcables.com • Website: www.paramountcables.com

Certificate No: 1261a to BS 6387:2013 (Category CWZ), EN 60754-1:2014, EN 61034-2:2005+A1:2013 EN 60332-3-24:2009

FireSecure Cable

Nominal csa of conductor (mm^2)	Core Construction	BS 6387	EN 60754-1	EN 61034-2	EN 60332-3-24	LPCB Ref. No.
16	2, 3 & 4	C,W,Z	<0.5% HCl	>60%	Complies	1261a/01
25	2, 3 & 4	C,W,Z	<0.5% HCl	>60%	Complies	
35	2, 3 & 4	C,W,Z	<0.5% HCl	>60%	Complies	
50	2, 3 & 4	C,W,Z	<0.5% HCl	>60%	Complies	
70	2, 3 & 4	C,W,Z	<0.5% HCl	>60%	Complies	
95	2, 3 & 4	C,W,Z	<0.5% HCl	>60%	Complies	
120	2, 3 & 4	C,W,Z	<0.5% HCl	>60%	Complies	
150	2, 3 & 4	C,W,Z	<0.5% HCl	>60%	Complies	
185	2, 3 & 4	C,W,Z	<0.5% HCl	>60%	Complies	
240	2, 3 & 4	C,W,Z	<0.5% HCl	>60%	Complies	
300	2, 3 & 4	C,W,Z	<0.5% HCl	>60%	Complies	
400	2, 3 & 4	C,W,Z	<0.5% HCl	>60%	Complies	

A copy of the certificate, confirming the full scope of approval including notes relating to the superscript references in the above table, may be viewed online by clicking on the product name in the associated entry on www.RedBookLive.com

Certificate No: 1261b to BS 6387:2013 (Category CWZ), EN 60754-1:2014, EN 61034-2:2005+A1:2013, EN 60332-3-24:2009 BS 8491:2008

FireSecure Punch Cable

Nominal csa of conductor (mm^2)	Core Construction	BS 6387	EN 60754-1	EN 61034-2	EN 60332-3-24	BS 8491	LPCB Ref. No.
16	2, 3 & 4	C,W,Z	<0.5% HCl	>60%	Complies	120mins	1261b/01
25	2, 3 & 4	C,W,Z	<0.5% HCl	>60%	Complies	120mins	
35	2, 3 & 4	C,W,Z	<0.5% HCl	>60%	Complies	120mins	
50	2, 3 & 4	C,W,Z	<0.5% HCl	>60%	Complies	120mins	
70	2, 3 & 4	C,W,Z	<0.5% HCl	>60%	Complies	120mins	
95	2, 3 & 4	C,W,Z	<0.5% HCl	>60%	Complies	120mins	
120	2, 3 & 4	C,W,Z	<0.5% HCl	>60%	Complies	120mins	
150	2, 3 & 4	C,W,Z	<0.5% HCl	>60%	Complies	120mins	
185	2, 3 & 4	C,W,Z	<0.5% HCl	>60%	Complies	120mins	
240	2, 3 & 4	C,W,Z	<0.5% HCl	>60%	Complies	120mins	
300	2, 3 & 4	C,W,Z	<0.5% HCl	>60%	Complies	120mins	
400	2, 3 & 4	C,W,Z	<0.5% HCl	>60%	Complies	120mins	

A copy of the certificate, confirming the full scope of approval including notes relating to the superscript references in the above table, may be viewed online by clicking on the product name in the associated entry on www.RedBookLive.com

Pony Cables

7F Toranomon 40MT Bldg 5-31-1, Toranomon, Minato-ku, Tokyo 105 0001, Japan
Tel: +81 3 4530 9633 • Fax: +81 3 4530 9800
E-mail: masuyo.arata@ponycables.com • Website: www.ponycables.com

Certificate No: 1383a-(cl-7) to BS 6387:2013 (Category CWZ) EN 50200:2015 (Class PH30) EN 50200:2015 Annex E (30 mins) EN 61034-2:2005+A2:2020 EN 60754-1:2014 EN 60332-1-2:2004

PONY FIRE RESISTANT CABLE

Nominal csa of conductor (mm^2)	Core Construction	BS 6387	EN 50200	EN 50200 Annex E	EN 60754-1	EN 61034-2	EN 60332-1-2	LPCB Ref. No.
1.0	2, 3 & 4	C, W, Z	PH30	30 min	<0.5%	>60%	Complies	1383-(cl-7)
1.5	2, 3 & 4	C, W, Z	PH30	30 min	<0.5%	>60%	Complies	
2.5	2, 3 & 4	C, W, Z	PH30	30 min	<0.5%	>60%	Complies	

A copy of the certificate, confirming the full scope of approval including notes relating to the superscript references in the above table, may be viewed online by clicking on the product name in the associated entry on www.RedBookLive.com

Certificate No: 1383b-(cl-2) to BS 6387:2013 (Category CWZ) EN 50200:2015 (Class PH120) EN 50200:2015 Annex E (30 mins) EN 61034-2:2005+A2:2020 EN 60754-1:2014 EN 60332-1-2:2004

PONY FIRE RESISTANT CABLE

Nominal csa of conductor (mm^2)	Core Construction	BS 6387	EN 50200	EN 50200 Annex E	EN 60754-1	EN 61034-2	EN 60332-1-2	LPCB Ref. No.
1.5	2, 3 & 4	C, W, Z	PH 120	30 min	<0.5%	>60%	Complies	1383b-(cl-2)
2.5	2, 3 & 4	C, W, Z	PH 120	30 min	<0.5%	>60%	Complies	

A copy of the certificate, confirming the full scope of approval including notes relating to the superscript references in the above table, may be viewed online by clicking on the product name in the associated entry on www.RedBookLive.com

Prysmian Cables & Systems Limited

Energy Cables, Chickenhall Lane, Bishopstoke, Eastleigh, Hants SO50 6YU, United Kingdom
Tel: +44 (0)8457 678345 • Fax: +44 (0)2380 295465
E-mail: cables.marketing.uk@prysmian.com • Website: www.prysmian.co.uk

Certificate No: 077c to BS 6387: 2013, EN 50267-2-1: 1999 and IEC 60331-21: 1999

FP100 Fire resistant single core cable for installation in conduit

Nominal csa of conductor (mm^2)	Core Construction	BS 6387	EN 50267-2-1 (outer covering)	IEC 60331-21	LPCB Ref. No.
16	One	CWZ	-	Complies	077c/01
25	One	CWZ	-	Complies	
35	One	CWZ	-	Complies	
50	One	CWZ	-	Complies	
70	One	CWZ	-	Complies	
95	One	CWZ	-	Complies	
120	One	C	-	Complies	
150	One	C	-	Complies	
185	One	-	-	Complies	
240	One	-	-	Complies	
300	One	-	-	Complies	
400	One	-	-	Complies	
500	One	-	-	Complies	
630	One	-	-	Complies	

Uo/U 450/750 V
Uo/U 600/1000 V

Notes:
1) Standard conductor only.
2) Where a single cable is fitted to a conduit, only phase to earth voltage was applied.
3) To satisfy the requirement of BS 6387, testing for C, W & Z categories was contucted using a 20mm stainless steel conduit as the other metallic element.
4) To satisfy the requirement of BS 6387, testing for W & Z categories was conducted using a 20mm stainless steel conduit as the other metallic element.
5) To satisfy the requirement of BS 6387, testing for C category was conducted using a 38mm stainless steel conduit as the other metallic element.
6) The FP100 cables met the requirements of IEC 60331-21: 1999 when tested at a temperature of 950ºC for a duration of 90mins + 15mins cool down, at a voltage rating of 600V.

A copy of the certificate, confirming the full scope of approval including notes relating to the superscript references in the above table, may be viewed online by clicking on the certificate link in the associated entry on www.RedBookLive.com

Certificate No: 077b to BS 6387:2013 CWZ EN 61034-2:2005+A1:2013 EN 60754-1:2014

FP300 and FP400 fire resistant cable LSOH outer covering

Nominal csa of conductor (mm^2)	Core Construction (excluding drain wire and earth)	BS 6387	EN 61034-2	EN 60754-1 (outer covering)	LPCB Ref. No.
1.0	2, 3 & 4	CWZ	>60%	<0.5% HCl	077b/01
1.5	2, 3 & 4	CWZ	>60%	<0.5% HCl	
2.5	2, 3 & 4	CWZ	>60%	<0.5% HCl	
4.0	2, 3 & 4	CWZ	>60%	<0.5% HCl	
6.0	2, 3 & 4	CWZ	>60%	<0.5% HCl	
10	2, 3 & 4	CWZ	>60%	<0.5% HCl	
16	2, 3 & 4	CWZ	>60%	<0.5% HCl	
1.5	2, 3 & 4	CWZ	>60%	<0.5% HCl	077b/02
2.5	2, 3 & 4	CWZ	>60%	<0.5% HCl	
4.0	2, 3 & 4	CWZ	>60%	<0.5% HCl	
6.0	2, 3 & 4	CWZ	>60%	<0.5% HCl	
10	2, 3 & 4	CWZ	>60%	<0.5% HCl	
16	2, 3 & 4	CWZ	>60%	<0.5% HCl	
25	2, 3 & 4	CWZ	>60%	<0.5% HCl	
35	2, 3 & 4	CWZ	>60%	<0.5% HCl	
50	2, 3 & 4	CWZ	>60%	<0.5% HCl	
70	2 & 3	CWZ	>60%	<0.5% HCl	

A copy of the certificate, confirming the full scope of approval including notes relating to the superscript references in the above table, may be viewed online by clicking on the product name in the associated entry on www.RedBookLive.com

Certificate No: 077g to BS 7629-1: 2015 (ENHANCED 120), BS 6387: 2013 (C,W,Z), EN 50200: 2015 Class PH120, BS 8434-2: 2003+A2:2009 (120mins) and BS 5839-1: 2013 (Clause 26.2e Enhanced)

FP Plus

Nominal csa of conductor (mm^2)	Core Construction (excluding drain wire and earth)	BS 7629-1	BS 6387	EN 50200	BS 8434-2	BS 5839-1 Clause 26.2	LPCB Ref. No.
1.5	2	ENHANCED 120	C, W, Z	PH 120	120 min	Enhanced	077g/02
2.5	2	ENHANCED 120	C, W, Z	PH120	120 min	Enhanced	
1.5	2, 3 & 4	ENHANCED 120	C, W, Z	PH120	120 min	Enhanced	077g/03
2.5	2, 3 & 4	ENHANCED 120	C, W, Z	PH 120	120 min	Enhanced	

A copy of the certificate, confirming the full scope of approval including notes relating to the superscript references in the above table, may be viewed online by clicking on the product name in the associated entry on www.RedBookLive.com

Certificate No: 077e to BS 6387:2013 (Category CWZ) EN 60754-1:20014, IEC 60331-21:1999

FP 300 and FP 300MI single core cable

Nominal csa of conductor (mm^2)	Core Construction	BS 6387	EN 60754-1	IEC 60331-21	LPCB Ref. No.
1.0	One	CWZ	<0.5% HCl	Complies	077e/01
1.5	One	CWZ	<0.5% HCl	Complies	
2.5	One	CWZ	<0.5% HCl	Complies	
4.0	One	CWZ	<0.5% HCl	Complies	
6.0	One	CWZ	<0.5% HCl	Complies	
10	One	CWZ	<0.5% HCl	Complies	
16	One	CWZ	<0.5% HCl	Complies	
25	One	CWZ	<0.5% HCl	Complies	
35	One	CWZ	<0.5% HCl	Complies	
50	One	CWZ	<0.5% HCl	Complies	
70	One	C	<0.5% HCl	Complies	
95	One	C	<0.5% HCl	Complies	
120	One	C	<0.5% HCl	Complies	
150	One	C	<0.5% HCl	Complies	
185	One	C	<0.5% HCl	Complies	
240	One	C	<0.5% HCl	Complies	
300	One	-	<0.5% HCl	Complies	
400	One	-	<0.5% HCl	Complies	
500	One	-	<0.5% HCl	Complies	
630	One	-	<0.5% HCl	Complies	
1.0	One	CWZ	<0.5% HCl	Complies	077e/02
1.5	One	CWZ	<0.5% HCl	Complies	
2.5	One	CWZ	<0.5% HCl	Complies	
4.0	One	CWZ	<0.5% HCl	Complies	
6.0	One	CWZ	<0.5% HCl	Complies	
10	One	CWZ	<0.5% HCl	Complies	
16	One	CWZ	<0.5% HCl	Complies	
25	One	CWZ	<0.5% HCl	Complies	
35	One	CWZ	<0.5% HCl	Complies	
50	One	C	<0.5% HCl	Complies	
70	One	C	<0.5% HCl	Complies	
95	One	C	<0.5% HCl	Complies	
120	One	C	<0.5% HCl	Complies	
150	One	C	<0.5% HCl	Complies	
185	One	C	<0.5% HCl	Complies	
240	One	C	<0.5% HCl	Complies	
300	One	-	<0.5% HCl	Complies	
400	One	-	<0.5% HCl	Complies	
500	One	-	<0.5% HCl	Complies	
630	One	-	<0.5% HCl	Complies	

A copy of the certificate, confirming the full scope of approval including notes relating to the superscript references in the above table, may be viewed online by clicking on the product name in the associated entry on www.RedBookLive.com

Certificate No: 077n to BS 8491: 2008, EN 60754-1: 2014 and BS EN 61034-2: 2005

FP600S

Nominal csa of conductor (mm^2)	Core Construction	BS 8491	EN 60754-1	BS EN 61034-2	LPCB Ref. No.
2.5	7	120 min	<0.5% HCl	>60%	077n/01
4.0	2, 3 & 4	120 min	<0.5% HCl	>60%	
6.0	2, 3 & 4	120 min	<0.5% HCl	>60%	
10	2, 3 & 4	120 min	<0.5% HCl	>60%	
16	2, 3 & 4	120 min	<0.5% HCl	>60%	
25	2, 3 & 4	120 min	<0.5% HCl	>60%	
35	2, 3 & 4	120 min	<0.5% HCl	>60%	
50	2, 3 & 4	120 min	<0.5% HCl	>60%	
70	2 & 3	120 min	<0.5% HCl	>60%	

A copy of the certificate, confirming the full scope of approval including notes relating to the superscript references in the above table, may be viewed online by clicking on the product name in the associated entry on www.RedBookLive.com

Certificate No: 077f to BS 7629-1:2015 (Standard 30) BS 7629-1:2015 (Standard 60) BS 6387:2013 (CWZ) EN 50200:2015 (Class PH60 & PH120) EN 50200:2015 Annex E (30 mins) BS 5839-1:2013 (Clause 26.2d Standard)

FP200 Gold

Nominal csa of conductor (mm^2)	Core Construction (excluding drain wire and earth)	BS 7629-1	BS 6387	EN 50200	EN 50200 Annex E	EN 5839-1 clause 26.2d	LPCB Ref. No.
1.0	2	STANDARD 30	C, W, Z	PH60	30 min	Standard	077f/01
1.5	2, 3 & 4	STANDARD 60	C, W, Z	PH120	30 min	Standard	
2.5	2, 3 & 4	STANDARD 60	C, W, Z	PH120	30 min	Standard	
4.0	2, 3 & 4	STANDARD 60	C, W, Z	PH120	30 min	Standard	

A copy of the certificate, confirming the full scope of approval including notes relating to the superscript references in the above table, may be viewed online by clicking on the product name in the associated entry on www.RedBookLive.com

Certificate No: 077a to BS 7629-1: 1997 (Incorporating Amendments 1 & 2)

FP200 Flex

Nominal csa of conductor (mm^2)	Core Construction (excluding drain wire & earth)	BS 7629-1 (Incorporating Amendments Nos. 1 and 2)	LPCB Ref. No.
1.0	7	Complies	077a/02
1.5	7, 12 & 19	Complies	
2.5	7 & 12	Complies	
1.0	2, 3 & 4	Complies	077a/03
1.5	2, 3 & 4	Complies	
2.5	2, 3 & 4	Complies	

Uo/U 300/500V

Note:
1) Solid conductor only
2) Stranded conductor only
3) In meeting the requirements of BS 7629-1: 1997 (Incorporating Amendments Nos. 1 & 2), the FP200 Flex cables listed met the requirements for smoke density of EN 61034-2: 2005, the fire resistance requirements in BS 6387: 2013 Categories CWZ and achieved less than 0.5%HCl for the outer covering, binder tape & insulation when tested in accordance with EN 50267-2-1: 1999.

A copy of the certificate, confirming the full scope of approval including notes relating to the superscript references in the above table, may be viewed online by clicking on the certificate link in the associated entry on www.RedBookLive.com

Certificate No: 077h to BS 7629-1: 2015 (ENHANCED 120), EN 50200: 2015 (Class PH120), BS 8434-2: 2003+A2:2009 (120min), BS 5839-1: 2013 (Clause 26.2e Enhanced), BS 6387:2013 (C,W,Z)

FP Plus Flex

Nominal csa of conductor (mm^2)	Core Construction (excluding drain wire & earth)	BS 7629-1	BS 6387	EN 50200	BS 8434-2	BS 5839-1 Clause 26.2	LPCB Ref. No.
1.5	2,3 & 4(1)	ENHANCED 120 (3)	C,W,Z	PH120	120min(4)	Enhanced(5)	077h/01
2.5	2,3 & 4(2)	ENHANCED 120 (3)	C,W,Z	PH120	120min(4)	Enhanced(5)	
4.0	2,3 & 4(2)	ENHANCED 120 (3)	C,W,Z	PH120	120min(4)	Enhanced(5)	
1.0	2(1)	ENHANCED 120 (3)	C,W,Z	PH120	120min(4)	Enhanced(5)	

Uo/U 300/500V

Notes:
1) Solid conductor only.
2) Stranded conductor only.
3) In meeting the requirements of BS 7629-1: 2015, the FP Plus Flex cables listed met the requirements for smoke density of EN 61034-2: 2005+A1:2013, and achieved less than 0.5%HCl for the insulation, binder tape and outer covering when tested in accordance with EN 60754-1:2014 and in addition also met the fire resistance requirements of BS 6387:2013 Categories CWZ.
4) The duration of 120min when tested in accordance with BS 8434-2: 2003 is achieved by 60min for the fire and mechanical shock phase and an additional 60min for the fire, mechanical shock and water phase.
5) The FP Plus Flex cables listed conform to BS 7629-1: 2015, met Class PH120 when tested in accordance with EN 50200: 2015 and met a duration of 120min when tested in accordance with BS 8434-2: 2003+A2:2009 and hence met the requirements for an enhanced fire resistant cable as described in Clause 26.2 of BS 5839-1: 2013.

A copy of the certificate, confirming the full scope of approval including notes relating to the superscript references in the above table, may be viewed online by clicking on the certificate link in the associated entry on www.RedBookLive.com

Certificate No: 077j to BS 7629-1: 1997

FP200 Flex

Nominal csa of conductor (mm^2)	Core Construction (excluding drain wire & earth)	BS 7629-1	LPCB Ref. No.
1.0	2, 3 & 4	Complies	077j/02
1.5	2, 3 & 4	Complies	
2.5	2, 3 & 4	Complies	

Uo/U 300/500V

Notes:
1) Stranded conductor only.
2) In meeting the requirements of BS 7629-1: 1997, the FP200 Flex cables listed met the requirements for smoke density of EN 61034-2:2005, the fire resistance requirements of BS 6387: 2013 Categories CWZ and achieved less than 0.5%HCl for the outer covering, binder tape & insulation when tested in accordance with EN 50267-2-1:1999.
3) BS 7629-1: 1997 was amended in 2004 to implement the changes to the identification of cores by colours, in accordance with the CENELEC Harmonisation Document HD 308 S2. The un-amended version of the standard was withdrawn on 31st March 2006. However, cables with the old identification colours, meeting the withdrawn version of the standard, are still requested by some regulators outside of the EU. Certification to the un-amended version of the standard has therefore been maintained, for the time being, to satisfy the requirements of these regulators.

Certificate 077a covers cables certified in accordance with BS 7629-1: 1997 (Incorporating Amendments Nos. 1 & 2)

A copy of the certificate, confirming the full scope of approval including notes relating to the superscript references in the above table, may be viewed online by clicking on the certificate link in the associated entry on www.RedBookLive.com

Certificate No: 077p to BS 6387:2013, EN 50267-2-1:1999, EN 61034-2:2005 and IEC 60331-21:1999.

FP100 LSOH

Nominal csa of conductor (mm^2)	Core construction (see note 1)	BS 6387	EN 50267-2-1	EN 61034-2	IEC 60331-21	LPCB Ref. No.
1.5	One	C,W,Z	<0.5% HCl	>60%	Complies	077p/01
2.5	One	C,W,Z	<0.5% HCl	>60%	Complies	
4.0	One	C,W,Z	<0.5% HCl	>60%	Complies	
6.0	One	C,W,Z	<0.5% HCl	>60%	Complies	
10	One	C,W,Z	<0.5% HCl	>60%	Complies	

Uo/U 600/1000V

Notes:

1. Stranded conductor only.
2. Where a single cable is fitted in a conduit, only phase to earth voltage was applied.
3. To satisfy the requirement of BS 6387:2013, for Categories C,W,Z, testing was conducted using a 20mm stainless steel conduit as the other metallic element.
4. The FP100 LSOH cables met the requirements of IEC 60331-21: 1999 when tested at a temperature of 950ºC for a duration of 90mins + 15mins cool down, at a voltage rating of 600V.

A copy of the certificate, confirming the full scope of approval including notes relating to the superscript references in the above table, may be viewed online by clicking on the certificate link in the associated entry on www.RedBookLive.com

---

Prysmian Cables & Systems Limited

Energy Cables Unit, Wrexham Industrial Estate, Wrexham LL13 9PH, United Kingdom
Tel: +44 (0)1978 662345 • Fax: +44 (0)1978 662292
E-mail: cables.marketing.uk@prysmian.com • Website: www.prysmian.co.uk

Certificate No: 517b to BS 6387:2013 CWZ, EN 61034-2:2005+A1:2013 and EN 60754-1:2014

FP400 Fire Resistant Cable

Nominal csa of conductor (mm^2)	Core Construction (excluding drain wire and earth)	BS 6387	EN 61034-2	EN 60754-1 (outer covering)	LPCB Ref. No.
70	4	CWZ	>60%	<0.5% HCl	517b/01
95	2, 3 & 4	CWZ	>60%	<0.5% HCl	
120	2, 3 & 4	CWZ	>60%	<0.5% HCl	
150	2, 3 & 4	CWZ	>60%	<0.5% HCl	
185	2, 3 & 4	CWZ	>60%	<0.5% HCl	
240	2, 3 & 4	CWZ	>60%	<0.5% HCl	
300	2, 3 & 4	CWZ	>60%	<0.5% HCl	
400	2, 3 & 4	CWZ	>60%	<0.5% HCl	

A copy of the certificate, confirming the full scope of approval including notes relating to the superscript references in the above table, may be viewed online by clicking on the product name in the associated entry on www.RedBookLive.com

Certificate No: 517c to BS8491:2008 EN 60754-1:2014 BS EN 61034-2:2005

FP600S

Nominal csa of conductor (mm^2)	Core Construction	BS 8491	EN 60754-1	BS EN 61034-2	LPCB Ref. No.
70	4	120 min	<0.5% HCl	>60%	517c/01
95	2, 3 & 4	120 min	<0.5% HCl	>60%	
120	2, 3 & 4	120 min	<0.5% HCl	>60%	
150	2, 3 & 4	120 min	<0.5% HCl	>60%	
185	2, 3 & 4	120 min	<0.5% HCl	>60%	
240	2, 3 & 4	120 min	<0.5% HCl	>60%	
300	2, 3 & 4	120 min	<0.5% HCl	>60%	
400	2, 3 & 4	120 min	<0.5% HCl	>60%	

A copy of the certificate, confirming the full scope of approval including notes relating to the superscript references in the above table, may be viewed online by clicking on the product name in the associated entry on www.RedBookLive.com

Certificate No: 517d to IEC 60331-21:1999 and EN 60754-1:2014

FP300MI

Nominal csa of conductor (mm^2)	Core Construction (excluding drain wire and earth)	IEC 60331-21	EN 60754-1 (outer covering)	LPCB Ref. No.
800	One	Complies	<0.5% HCl	517d/01
1000	One	Complies	<0.5% HCl	

A copy of the certificate, confirming the full scope of approval including notes relating to the superscript references in the above table, may be viewed online by clicking on the product name in the associated entry on www.RedBookLive.com

PYRONEX ELECTRICAL EQUIPMENT TRADING

PO Box 6473, Dubai, United Arab Emirates
Tel: +9714 3362646
E-mail: sales@firenixcables.com • Website: www.pyronexfire.com

Certificate No: 568c-(cl-2) to BS 7629-1:2015 (Standard 60) BS 6387:2013 (Category CWZ) EN 50200:2015 (Class PH120) EN 50200:2015 Annex E (30 mins) BS 5839-1:2013 (Clause 26.2d Standard) EN 60754-2:2014

FIRENIX ST120

Nominal csa of conductor (mm^2)	Core Construction	BS 7629-1	BS 6387	EN 50200	BS 5839-1 Clause 26.2d	EN 60754-2	LPCB Ref. No.
1.0	2	Standard 60	C, W, Z	PH120	Standard	Complies	568c-(cl-2)/02
1.5	2 , 3 & 4	Standard 60	C, W, Z	PH120	Standard	Complies	
2.5	2 , 3 & 4	Standard 60	C, W, Z	PH120	Standard	Complies	
4	2 , 3 & 4	Standard 60	C, W, Z	PH120	Standard	Complies	

A copy of the certificate, confirming the full scope of approval including notes relating to the superscript references in the above table, may be viewed online by clicking on the product name in the associated entry on www.RedBookLive.com

Certificate No: 568j-(cl-1) to BS 7629-1:2015 (Enhanced 120) EN 50200:2015 (Class PH120) BS 8434-2:2003+A2:2009 (120 mins) BS 5839-1:2013 (Clause 26.2e Enhanced) BS 6387:2013 (Category CWZ) EN 60332-3-24:2009

FIRENIX EN120

Nominal csa of conductor (mm^2)	Core Construction	BS 7629-1	EN 50200	EN 50200 Annex E	BS 8434-2	BS 6387	EN 60332-3-24	BS 5839-1 (Clause 26.2e)	LPCB Ref. No.
1.5	2 , 3 & 4	ENHANCED 120	PH120	30 minutes	120 minutes	C, W, Z	Complies	Enhanced	568j-(cl-1)/01
2.5	2 , 3 & 4	ENHANCED 120	PH120	30 minutes	120 minutes	C, W, Z	Complies	Enhanced	
4	2	ENHANCED 120	PH120	30 minutes	120 minutes	C, W, Z	Complies	Enhanced	

A copy of the certificate, confirming the full scope of approval including notes relating to the superscript references in the above table, may be viewed online by clicking on the product name in the associated entry on www.RedBookLive.com

Certificate No: 568a-(cl-8)/02 to BS 6387:2013 (CWZ)
EN 60754-1:2014
EN 61034-2:2005+A2:2020
EN 50200:2015 (Class PH120)
EN 50200:2015 Annex E (30 mins)
EN 60754-2:2014
EN 60332-3-24:2009
EN 60332-3-25:2009

EN 60754-1:2014
EN 61034-2:2005+A2:2020
EN 50200:2015 (Class PH120)
EN 50200:2006 Annex E (30 mins)
EN 60754-2:2014
EN 60332-3-24:2009
EN 60332-3-25:2009

FIRENIX BASIC

Nominal csa of conductor (mm^2)	Core Construction	BS 6387	BS 60754-1	EN 60754-2	EN 61034-2	EN 50200	EN 50200 Annex E	EN 60332-3-24	EN 60332-3-25	LPCB Ref. No.
1.5	2, 3 & 4	C, W, Z	<0.5% HCl	Complies	>60%	PH120	30 minutes	Complies	Complies	568a-(cl-8)/02
2.5	2 , 3 & 4	C, W, Z	<0.5% HCl	Complies	>60%	PH120	30 minutes	Complies	Complies	

Nominal csa of conductor (mm^2)	Core Construction	BS 6387	BS 60754-1	EN 60754-2	EN 61034-2	EN 50200	EN 50200 Annex E	EN 60332-3-24	EN 60332-3-25	LPCB Ref. No.
4	2 , 3 & 4	C, W, Z	<0.5% HCl	Complies	>60%	PH120	30 minutes	Complies	Complies	

A copy of the certificate, confirming the full scope of approval including notes relating to the superscript references in the above table, may be viewed online by clicking on the product name in the associated entry on www.RedBookLive.com

Qatar International Cables Company (QICC - Nexans)

PF 65 Light Industrial St., 707, Umm Mesaieed Area, P O Box 15991, Doha, Qatar
Tel: +974 4408 5119 • Fax: +974 4467 3230
E-mail: lotfi.ouerghi@nexans.com • Website: www.nexans.qa

Certificate No: 1262b to BS 7846:2009 Cat F2, IEC 60331-21:1999 and EN 50267-2-3: 1999

ALSECURE PLUS NX400

Nominal csa of Conductor (mm^2)	Core Construction (excluding drain wire and earth)	BS 7846	IEC 60331-21	EN 50267-2-3	LPCB Ref. No.
16	2, 3 & 4(1)	F2(2)	Complies(3)	Complies	1262b/01
25	2, 3 & 4(1)	F2(2)	Complies(3)	Complies	
35	2, 3 & 4(1)	F2(2)	Complies(3)	Complies	
50	2, 3 & 4(1)	F2(2)	Complies(3)	Complies	
70	2, 3 & 4(1)	F2(2)	Complies(3)	Complies	
95	2, 3 & 4(1)	F2(2)	Complies(3)	Complies	
120	2, 3 & 4(1)	F2(2)	Complies(3)	Complies	
150	2, 3 & 4(1)	F2(2)	Complies(3)	Complies	
185	2, 3 & 4(1)	F2(2)	Complies(3)	Complies	
240	2, 3 & 4(1)	F2(2)	Complies(3)	Complies	
300	2, 3 & 4(1)	F2(2)	Complies(3)	Complies	
400	2, 3 & 4(1)	F2(2)	Complies(3)	Complies	

Uo/U 600/1000V

Notes:
1. Stranded conductor only.
2. In meeting the requirements of BS 7846:2009 Category F2, the ALSECURE PLUS NX400 cables met the requirements for smoke density to EN 61034-2:2005, fire resistance to BS 6387:2013 CWZ and achieved less than 0.5%HCI on the insulation, tapes, filler, bedding and outer covering when tested in accordance with EN 50267-2-1:1999.
3. The ALSECURE PLUS NX400 cables met the requirements of IEC 60331-21: 1999 when tested at a temperature of 850°C for a duration of 90mins + 15mins cool down, at a voltage rating of 600V.

A copy of the certificate, confirming the full scope of approval including notes relating to the superscript references in the above table, may be viewed online by clicking on the certificate link in the associated entry on www.RedBookLive.com

Certificate No: 1262a to BS 6387:2013 (Category CWZ) EN 60754-1:2014 EN 60754-2:2014 EN 61034-2:2005+A1:2013 IEC 60331-21:1999 EN 60332-3-24:2009

ALSECURE PLUS NX100

Nominal csa of conductor (mm^2)	Core Construction	BS 6387	EN 60754-1	EN 60754-2	EN 61034-2	IEC 60331-21	EN 60332-3-24	LPCB Ref. No.
10	One	CWZ	<0.5% HCl	Complies	>60%	Complies	Complies	1262a/01
16	One	CWZ	<0.5% HCl	Complies	>60%	Complies	Complies	
25	One	CWZ	<0.5% HCl	Complies	>60%	Complies	Complies	
35	One	CWZ	<0.5% HCl	Complies	>60%	Complies	Complies	
50	One	CWZ	<0.5% HCl	Complies	>60%	Complies	Complies	
70	One	CWZ	<0.5% HCl	Complies	>60%	Complies	Complies	
95	One	C	<0.5% HCl	Complies	>60%	Complies	Complies	
120	One	C	<0.5% HCl	Complies	>60%	Complies	Complies	

Nominal csa of conductor (mm^2)	Core Construction	BS 6387	EN 60754-1	EN 60754-2	EN 61034-2	IEC 60331-21	EN 60332-3-24	LPCB Ref. No.
150	One	C	<0.5% HCl	Complies	>60%	Complies	Complies	
185	One	C	<0.5% HCl	Complies	>60%	Complies	Complies	
240	One	C	<0.5% HCl	Complies	>60%	Complies	Complies	
300	One	C	<0.5% HCl	Complies	>60%	Complies	Complies	
400	One	C	<0.5% HCl	Complies	>60%	Complies	Complies	
500	One	-	<0.5% HCl	Complies	>60%	Complies	Complies	
630	One	-	<0.5% HCl	Complies	>60%	Complies	Complies	

A copy of the certificate, confirming the full scope of approval including notes relating to the superscript references in the above table, may be viewed online by clicking on the product name in the associated entry on www.RedBookLive.com

Certificate No: 1262d to BS 7846:2015 Cat F2 BS 7846:2015 Cat F120 EN 60754-2:2014 IEC 60331-21:1999

ALSECURE PLUS NX600

Nominal csa of conductor (mm^2)	Core Construction	BS 7846	EN 60754-2	IEC 60331-21	LPCB Ref. No.
16	2, 3 & 4	F2 & F120	Complies	Complies	1262d/01
25	2, 3 & 4	F2 & F120	Complies	Complies	
35	2, 3 & 4	F2 & F120	Complies	Complies	
50	2, 3 & 4	F2 & F120	Complies	Complies	
70	2, 3 & 4	F2 & F120	Complies	Complies	
95	2, 3 & 4	F2 & F120	Complies	Complies	
120	2, 3 & 4	F2 & F120	Complies	Complies	
150	2, 3 & 4	F2 & F120	Complies	Complies	
185	2, 3 & 4	F2 & F120	Complies	Complies	
240	2, 3 & 4	F2 & F120	Complies	Complies	
300	2, 3 & 4	F2 & F120	Complies	Complies	
400	2, 3 & 4	F2 & F120	Complies	Complies	

A copy of the certificate, confirming the full scope of approval including notes relating to the superscript references in the above table, may be viewed online by clicking on the product name in the associated entry on www.RedBookLive.com

Rafic Gazzaoui & Co S. A. L.

Ramlet El-Bayda, Venzuela Street, Jamil Ibrahim Building, Beirut 20471504, Lebanon
Tel: +961 185 5888 • Fax: +961 185 8555
E-mail: info@gazzaoui.com • Website: www.gazzaoui.com

Certificate No: 568a-(cl-9) to BS 6387:2013 (CWZ)
EN 60754-1:2014
EN 61034-2:2005+A2:2020
EN 50200:2015 (Class PH120)
EN 50200:2015 Annex E (30 mins)
EN 60754-2:2014
EN 60332-3-24:2009
EN 60332-3-25:2009

EN 60754-1:2014
EN 61034-2:2005+A2:2020
EN 50200:2015 (Class PH120)
EN 50200:2015 Annex E (30 mins)
EN 60754-2:2014
EN 60332-3-24:2009
EN 60332-3-25:2009

GAMMAFIRECRO-F3-FIRE RESISTANT Cable

Nominal csa of conductor (mm^2)	Core Construction	BS 6387	EN 60754-1	EN 60754-2	EN 61034-2	EN 50200	EN 50200 Annex E	EN 60332-3-24	EN 60332-3-25	LPCB Ref. No.
1.5	2, 3 & 4	C, W, Z	<0.5% HCl	Complies	>60%	PH120	30 minutes	Complies	Complies	568a-(cl-9)/02

Nominal csa of conductor (mm^2)	Core Construction	BS 6387	EN 60754-1	EN 60754-2	EN 61034-2	EN 50200	EN 50200 Annex E	EN 60332-3-24	EN 60332-3-25	LPCB Ref. No.
2.5	2, 3 & 4	C, W, Z	<0.5% HCl	Complies	>60%	PH120	30 minutes	Complies	Complies	
4	2, 3 & 4	C, W, Z	<0.5% HCl	Complies	>60%	PH120	30 minutes	Complies	Complies	

A copy of the certificate, confirming the full scope of approval including notes relating to the superscript references in the above table, may be viewed online by clicking on the product name in the associated entry on www.RedBookLive.com

RAMCRO S.p.A.

Via Marzorati, 15 - 20014 Nerviano, Milan, Italy
Tel: +39 0331 406511 • Fax: +39 0331 406559
E-mail: ramcro@ramcro.it • Website: www.ramcro.it

Certificate No: 568g to IEC 60331-21:1999 IEC 60332-1-2:2004 EN 61034-2:2005 EN 60754-1:2014

Nominal diameter of conductor (mm)	Core Construction (excluding drain wire and earth)	IEC 60331-21	IEC 60332-1-2	EN 61034-2	EN 60754-1	LPCB Ref. No.
0.65	4 Pairs	Complies	Complies	>60%	<0.5% HCl	568g/01

A copy of the certificate, confirming the full scope of approval including notes relating to the superscript references in the above table, may be viewed online by clicking on the product name in the associated entry on www.RedBookLive.com

Certificate No: 568h to IEC 60331-25:1999 IEC 60332-1-2:2004 EN 61034-2:2005 EN 60754-1:2014

No. of Fibre Optic	Type of Fibre	IEC 60331-25	IEC 60332-1-2	EN 61034-2	EN 60754-1	LPCB Ref. No.
6 FO	Single Mode	Complies	Complies	>60%	<0.5% HCl	568h/01
6 FO	Multi Mode	Complies	Complies	>60%	<0.5% HCl	568h/02

A copy of the certificate, confirming the full scope of approval including notes relating to the superscript references in the above table, may be viewed online by clicking on the product name in the associated entry on www.RedBookLive.com

Certificate No: 568f to EN 50200:2015 (Class PH 120) EN 60754-1:2014 EN 61034-2:2005+A1:2013

Nominal csa of conductor (mm^2)	Core Construction (excluding drain wire and earth)	EN 50200	EN 61034-2	EN 60754-1	LPCB Ref. No.
1.0	2	PH120	>60%	Complies	568f/01
1.5	2	PH120	>60%	Complies	
2.5	2	PH120	>60%	Complies	

A copy of the certificate, confirming the full scope of approval including notes relating to the superscript references in the above table, may be viewed online by clicking on the product name in the associated entry on www.RedBookLive.com

Certificate No: 568d to IEC 60331-21:1999
EN 60754-1:2014
EN 61034-2:2005 + A2:2020

Ramfirecro-F3 FIRE SAFE

Nominal csa of conductor (mm^2)	Core Construction	IEC 60331-21	EN 60754-1	EN 61034-2	LPCB Ref. No.
1.0	2, 3 & 4	(90+15) minutes	<0.5% HCl	>60%	568d/01
1.5	2, 3 & 4	(90+15) minutes	<0.5% HCl	>60%	
2.5	2, 3 & 4	(90+15) minutes	<0.5% HCl	>60%	

A copy of the certificate, confirming the full scope of approval including notes relating to the superscript references in the above table, may be viewed online by clicking on the product name in the associated entry on www.RedBookLive.com

Certificate No: 568i to EN 50200:2015 PH30 EN 61034-2:2005+A1:2013 EN 60754-1:2014

Nominal csa of conductor (mm^2)	Core Construction	EN 50200	EN 61034-2	EN 60754-1	LPCB Ref. No.
1.0	2	PH 30	>60%	<0.5% HCl	568i/01

Nominal csa of conductor (mm^2)	Core Construction	EN 50200	EN 61034-2	EN 60754-1	LPCB Ref. No.
1.5	2	PH 30	>60%	<0.5% HCl	
2.5	2	PH 30	>60%	<0.5% HCl	

A copy of the certificate, confirming the full scope of approval including notes relating to the superscript references in the above table, may be viewed online by clicking on the product name in the associated entry on www.RedBookLive.com

Certificate No: 568e to BS 6387:2013 (CWZ) EN 60754-1:2014 EN 61034-2:2005+A1:2013 EN 60754-2:2014 EN 60332-3-24:2009 EN 60332-1-2:2004

Ramfirecro-F3 FIRE GROUND

Nominal csa of conductor (mm^2)	Core Construction (excluding drain wire and earth)	BS 6387	EN 60754-1	EN 61034-2	EN 60754-2	EN 60332-3-24	EN 60332-1-2	LPCB Ref. No.
1.5	2,3,4 & 5	CWZ	<0.5% HCl	>60%	Complies	Complies	Complies	568e/01
2.5	2,3,4 & 5	CWZ	<0.5% HCl	>60%	Complies	Complies	Complies	
4	2,3,4 & 5	CWZ	<0.5% HCl	>60%	Complies	Complies	Complies	
6	2,3,4 & 5	CWZ	<0.5% HCl	>60%	Complies	Complies	Complies	
10	2,3,4 & 5	CWZ	<0.5% HCl	>60%	Complies	Complies	Complies	
16	2,3,4 & 5	CWZ	<0.5% HCl	>60%	Complies	Complies	Complies	
25	2,3,4 & 5	CWZ	<0.5% HCl	>60%	Complies	Complies	Complies	

A copy of the certificate, confirming the full scope of approval including notes relating to the superscript references in the above table, may be viewed online by clicking on the product name in the associated entry on www.RedBookLive.com

Certificate No: 568j to BS 7629-1:2015 Enhanced 120 EN 50200:2015 (Class PH120) BS 8434-2:2003+A2:2009 (120 mins) BS 5839-1:2013 (Clause 26.2e Enhanced) BS 6387:2013 Category CWZ EN 60332-3-24:2009

Ramfirecro-F3 FIRE STAR

Nominal csa of conductor (mm^2)	Core Construction	BS 7629-1	EN 50200	EN 50200 Annex E	BS 8434-2	BS 6387	EN 60332-3-24	BS 5839-1	LPCB Ref. No.
1.5	2, 3 & 4	ENHANCED 120	PH120	30 minutes	120 minutes	C, W, Z	Complies	Enhanced	568j/01
2.5	2, 3 & 4	ENHANCED 120	PH120	30 minutes	120 minutes	C, W, Z	Complies	Enhanced	
4.0	2	ENHANCED 120	PH120	30 minutes	120 minutes	C, W, Z	Complies	Enhanced	

A copy of the certificate, confirming the full scope of approval including notes relating to the superscript references in the above table, may be viewed online by clicking on the product name in the associated entry on www.RedBookLive.com

Certificate No: 568c to BS 7629-1:2015 (Standard 60) BS 6387:2013 (Category CWZ) EN 50200:2015 (Class PH120) EN 50200:2015 Annex E (30 mins) BS 5839-1:2013 (Clause 26.2d Standard) EN 60754-2:2014

Ramfirecro-F3 Standard FIRE SUN

Nominal csa of conductor (mm^2)	Core Construction	BS 7629-1	BS 6387	EN 50200	BS 5839-1 Clause 26.2	EN 60754-2	LPCB Ref. No.
1.0	2	Standard 60	C, W, Z	PH120	Standard	Complies	568c/02
1.5	2, 3 & 4	Standard 60	C, W, Z	PH120	Standard	Complies	
2.5	2, 3 & 4	Standard 60	C, W, Z	PH120	Standard	Complies	
4	2, 3 & 4	Standard 60	C, W, Z	PH120	Standard	Complies	

A copy of the certificate, confirming the full scope of approval including notes relating to the superscript references in the above table, may be viewed online by clicking on the product name in the associated entry on www.RedBookLive.com

Certificate No: 568a to BS 6387:2013 (CWZ)
EN 60754-1:2014
EN 61034-2:2005+A2:2020
EN 50200:2015 (Class PH120)
EN 50200:2015 Annex E (30 mins)
EN 60754-2:2014

Ramfirecro-F3 FIRE PLANET

Nominal csa of conductor (mm^2)	Core Construction	BS 6387	EN 60754-1	EN 60754-2	EN 61034-2	EN 50200	EN 50200 Annex E	LPCB Ref. No.
1.5	2, 3 & 4	C,W,Z	<0.5% HCl	Complies	>60%	PH 120	30 minutes	568a/02
2.5	2, 3 & 4	C,W,Z	<0.5% HCl	Complies	>60%	PH 120	30 minutes	
4	2, 3 & 4	C,W,Z	<0.5% HCl	Complies	>60%	PH 120	30 minutes	

Uo/U 300/500V

Notes:

1. Stranded conductors only.
2. Solid conductor only.

A copy of the certificate, confirming the full scope of approval including notes relating to the superscript references in the above table, may be viewed online by clicking on the product name in the associated entry on www.RedBookLive.com

Riyadh Cables Group

2nd Industrial City, Al Kharj Road, Street No. 175, 3rd Lane Zone D, Riyadh, Kingdom of Saudi Arabia
Tel: 00 966 11 265 0850
E-mail: technical@riyadh-cables.com • Website: www.riyadh-cables.com

Certificate No: 1482b to BS 7846:2015 Cat F2

RCG-FP4

Nominal csa of conductor (mm^2)	Core Construction	BS 7846	LPCB Ref. No.
1.5	2, 3 & 4	F2	1482b/01
2.5	2, 3 & 4	F2	
4	2, 3 & 4	F2	
6	2, 3 & 4	F2	
10	2, 3 & 4	F2	
16	2, 3 & 4	F2	
25	2, 3 & 4	F2	
35	2, 3 & 4	F2	
50	2, 3 & 4	F2	
70	2, 3 & 4	F2	
95	2, 3 & 4	F2	
120	2, 3 & 4	F2	
150	2, 3 & 4	F2	
185	2, 3 & 4	F2	
240	2, 3 & 4	F2	
300	2, 3 & 4	F2	
400	2, 3 & 4	F2	

A copy of the certificate, confirming the full scope of approval including notes relating to the superscript references in the above table, may be viewed online by clicking on the product name in the associated entry on www.RedBookLive.com

Certificate No: 1482c to BS 6387:2013 (CWZ) EN 50200:2015 (Class PH120) BS 8434-2:2003+A2:2009 (120 mins) EN 61034-2:2005+A1:2013 EN 60332-1-2:2004+A11:2016 EN 60754-1:2014

RCG-FP2 Multicore cables

Nominal csa of conductor (mm^2)	Core Construction (excluding drain wire and earth)	BS 6387	EN 50200	BS 8434-2	EN 61034-2	EN 60754-1	LPCB Ref. No.
1.5	2, 3 & 4	CWZ	PH120	120 mins	>60%	<0.5% HCl	1482c/01
2.5	2, 3 & 4	CWZ	PH120	120 mins	>60%	<0.5% HCl	
4.0	2, 3 & 4	CWZ	PH120	120 mins	>60%	<0.5% HCl	

A copy of the certificate, confirming the full scope of approval including notes relating to the superscript references in the above table, may be viewed online by clicking on the product name in the associated entry on www.RedBookLive.com

Certificate No: 1482e to BS 7846:2015 Cat F2 & F120

RCG-FP6

Nominal csa of conductor (mm^2)	Core Construction	BS 7846	LPCB Ref. No.
16	2, 3 & 4	F2 & F120	1482e/01
25	2, 3 & 4	F2 & F120	
35	2, 3 & 4	F2 & F120	
50	2, 3 & 4	F2 & F120	
70	2, 3 & 4	F2 & F120	
95	2, 3 & 4	F2 & F120	
120	2, 3 & 4	F2 & F120	
150	2, 3 & 4	F2 & F120	
185	2, 3 & 4	F2 & F120	
240	2, 3 & 4	F2 & F120	
300	2, 3 & 4	F2 & F120	
400	2, 3 & 4	F2 & F120	

A copy of the certificate, confirming the full scope of approval including notes relating to the superscript references in the above table, may be viewed online by clicking on the product name in the associated entry on www.RedBookLive.com

Certificate No: 1482a to BS 6387:2013 (Category CWZ) EN 60754-1:2014 EN 61034-2:2005+A2:2020 IEC 60331-21:1999

RCG-FP1

Nominal csa of conductor (mm^2)	Core Construction (excluding drain wire and earth)	BS 6387	EN 60754-1	EN 61034-2	IEC 60331-21	LPCB Ref. No.
1.5	One	CWZ	<0.5% HCl	>60%	Complies	1482a/01
2.5	One	CWZ	<0.5% HCl	>60%	Complies	
4.0	One	CWZ	<0.5% HCl	>60%	Complies	
6.0	One	CWZ	<0.5% HCl	>60%	Complies	
10	One	CWZ	<0.5% HCl	>60%	Complies	
16	One	CWZ	<0.5% HCl	>60%	Complies	
25	One	CWZ	<0.5% HCl	>60%	Complies	
35	One	CWZ	<0.5% HCl	>60%	Complies	
50	One	CWZ	<0.5% HCl	>60%	Complies	
70	One	CWZ	<0.5% HCl	>60%	Complies	
95	One	CWZ	<0.5% HCl	>60%	Complies	
120	One	C	<0.5% HCl	>60%	Complies	
150	One	C	<0.5% HCl	>60%	Complies	
185	One	C	<0.5% HCl	>60%	Complies	
240	One	C	<0.5% HCl	>60%	Complies	

Nominal csa of conductor (mm^2)	Core Construction (excluding drain wire and earth)	BS 6387	EN 60754-1	EN 61034-2	IEC 60331-21	LPCB Ref. No.
300	One	C	<0.5% HCl	>60%	Complies	
400	One	C	<0.5% HCl	>60%	Complies	
500	One	-	<0.5% HCl	>60%	Complies	
630	One	-	<0.5% HCl	>60%	Complies	

A copy of the certificate, confirming the full scope of approval including notes relating to the superscript references in the above table, may be viewed online by clicking on the certificate link in the associated entry on www.RedBookLive.com

Securi-flex Limited

Unit 6 - 10 Mackley Ind Estate, Henfield Road, Small Dole, Henfield BN5 9XR, United Kingdom
Tel: 0845 094 0244 • Fax: 0845 094 0255
E-mail: grant@securiflex.co.uk • Website: www.securiflex.co.uk

Certificate No: 1569a-(cl-1) to BS 7629-1:2015 Enhanced 120 BS 6387:2013 (Category CWZ) BS 5839-1:2013 (Clause 26.2e Enhanced)

SFX FLAME-FLEX Fire Resistant Cable

Nominal csa of conductor (mm^2)	Core Construction (excluding drain wire and earth)	BS 7629-1	BS 6387	BS 5839-1	LPCB Ref. No.
1.0	2	Enhanced 120	CWZ	Clause 26.2e	1569a-(cl-1)/01
1.5	2, 3 & 4	Enhanced 120	CWZ	Clause 26.2e	
2.5	2, 3 & 4	Enhanced 120	CWZ	Clause 26.2e	
4.0	2, 3 & 4	Enhanced 120	CWZ	Clause 26.2e	

A copy of the certificate, confirming the full scope of approval including notes relating to the superscript references in the above table, may be viewed online by clicking on the product name in the associated entry on www.RedBookLive.com

Certificate No: 338c-(cl-1) to BS 7629-1:2015 (Standard 60)
BS 6387:2013 (Category CWZ)
EN 50200:2015 (Class PH120)
EN 50200:2015 Annex E
BS 5839-1:2017 (Clause 26.2d Standard)
BS 8519:2010 Clause 11 (Category 1)

SFX FLAME-FLEX 60

Nominal csa of conductor (mm^2)	Core Construction	BS 7629-1	BS 6387	EN 50200	EN 50200	BS 5839-1 Clause 26.2d	BS 8519 Clause 11	LPCB Ref. No.
1.0	2	STANDARD 60	C, W, Z	PH120	Annex E	Standard	Category 1	338c-(cl-1)/01
1.5	2, 3 & 4	STANDARD 60	C, W, Z	PH120	Annex E	Standard	Category 1	
2.5	2, 3 & 4	STANDARD 60	C, W, Z	PH120	Annex E	Standard	Category 1	
4.0	2, 3 & 4	STANDARD 60	C, W, Z	PH120	Annex E	Standard	Category 1	

A copy of the certificate, confirming the full scope of approval including notes relating to the superscript references in the above table, may be viewed online by clicking on the product name in the associated entry on www.RedBookLive.com

Shakun Polymers Private Limited

(Cable Division), Plot No. 4, Silver Industrial Estate, Bhimpore, Patalia Road, Daman 396 210, India
Tel: +91 260 222 1538 • Fax: +91 260 222 1199
E-mail: technical@shakunpolymers.com • Website: www.shakuncables.com

Certificate No: 978d to BS 7629-1:2015 Standard 60 BS 6387:2013 (Category CWZ) EN 50200:2006 (Class PH120) EN 61034-2:2005+A1:2013 EN 60754-1:2014

FrTek20N

Nominal csa of conductor (mm^2)	Core Construction (excluding drain wire and earth)	BS 7629	BS 6387	EN 50200	EN 50200	LPCB Ref. No.
1.5	2	Standard 60	C, W, Z	PH120	Annex E	978d/01

A copy of the certificate, confirming the full scope of approval including notes relating to the superscript references in the above table, may be viewed online by clicking on the product name in the associated entry on www.RedBookLive.com

Certificate No: 978c to BS 6387:2013(CWZ) EN 50200:2015 (Class PH120) EN 61034-2:2005+A1:2013 EN 60754-1:2014

FrTek 40E

Nominal csa of conductor (mm^2)	Core Construction (excluding drain wire and earth)	BS 6387	EN 50200	EN 61034	EN 60754-1	LPCB Ref. No.
1.5	2, 3 & 4	C, W, Z	PH120	>60%	<0.5% HCl	978c/01
2.5	2, 3 & 4	C, W, Z	PH120	>60%	<0.5% HCl	

A copy of the certificate, confirming the full scope of approval including notes relating to the superscript references in the above table, may be viewed online by clicking on the product name in the associated entry on www.RedBookLive.com

Shenzhen Lilutong Technology Industry Co Ltd

No. 83 Pingxin North Road, Pinghu, Shenzhen 518111, China
Tel: +0086 755 89636 160 • Fax: +0086 755 84693 195
E-mail: huang@lltcable.com • Website: http://www.lltsecurity.com/

Certificate No: 1383a to BS 6387:2013 (Category CWZ) EN 50200:2015 (Class PH30) EN 50200:2015 Annex E (30 mins) EN 61034-2:2005+A2:2020 EN 60754-1:2014 EN 60332-1-2:2004

LLT Fire Resistant Cable

Nominal csa of conductor (mm^2)	Core Construction	BS 6387	EN 50200	EN50200 Annex E	EN 60754-1	EN 61034-2	EN 60332-1-2	LPCB Ref. No.
1.0	2, 3 & 4	C, W, Z	PH30	30 min	<0.5%	>60%	Complies	1383a/01
1.5	2, 3 & 4	C, W, Z	PH30	30 min	<0.5%	>60%	Complies	
2.5	2, 3 & 4	C, W, Z	PH30	30 min	<0.5%	>60%	Complies	

A copy of the certificate, confirming the full scope of approval including notes relating to the superscript references in the above table, may be viewed online by clicking on the product name in the associated entry on www.RedBookLive.com

Certificate No: 1383b to BS 6387:2013 (Category CWZ) EN 50200:2015 (Class PH120) EN 50200:2015 Annex E (30 mins) EN 61034-2:2005+A2:2020 EN 60754-1:2014 EN 60332-1-2:2004

LLT-FR Multi-Core Cables

Nominal csa of conductor (mm^2)	Core Construction	BS 6387	EN 50200	EN 50200 Annex E	EN 60754-1	EN 61034-2	EN 60332-1-2	LPCB Ref. No.
1.5	2, 3 & 4	C, W, Z	PH120	30 min	<0.5%	>60%	Complies	1383b/01
2.5	2, 3 & 4	C, W, Z	PH 120	30 min	<0.5%	>60%	Complies	

A copy of the certificate, confirming the full scope of approval including notes relating to the superscript references in the above table, may be viewed online by clicking on the product name in the associated entry on www.RedBookLive.com

Shield Fire, Safety & Security Ltd

Genesis, Unit 3, Endeavour Drive, Basildon SS14 3WF, United Kingdom
Tel: 01708 377 731 • Fax: 01708 347 637
E-mail: shielduk@shieldglobal.com • Website: www.shieldglobal.com

Certificate No: 1383a-(cl-5) to BS 6387:2013 (Category CWZ) EN 50200:2015 (Class PH30) EN 50200:2015 Annex E (30 mins) EN 61034-2:2005+A2:2020 EN 60754-1:2014 EN 60332-1-2:2004

SH-FRC-FIRE RESISTANT CABLE

Nominal csa of conductor (mm^2)	Core Construction	BS 6387	EN 50200	EN 50200 Annex E	EN 60754-1	EN 61034-2	EN 60332-1-2	LPCB Ref. No.
1.0	2,3 & 4	C, W, Z	PH30	30 min	<0.5%	>60%	Complies	1383a-(cl-5)
1.5	2,3 & 4	C, W, Z	PH30	30 min	<0.5%	>60%	Complies	
2.5	2,3 & 4	C, W, Z	PH30	30 min	<0.5%	>60%	Complies	

A copy of the certificate, confirming the full scope of approval including notes relating to the superscript references in the above table, may be viewed online by clicking on the product name in the associated entry on www.RedBookLive.com

Certificate No: 568j-(cl-04) to BS 7629-1:2015 (Enhanced 120)
EN 50200:2015 (Class PH120)
BS 8434-2:2003+A2:2009 (120 mins)
BS 5839-1:2013 (Clause 26.2e Enhanced)
BS 6387:2013 (Category CWZ)
EN 60332-3-24:2009

Premium-Xplus

Nominal csa of conductor (mm^2)	Core Construction	BS 7629-1	EN 50200	EN 50200 Annex E	BS 8434-2	BS 6387	EN 60332-3-24	BS 5839-1	LPCB Ref. No.
1.5	2, 3 & 4	ENHANCED 120	PH 120	30 minutes	120 minutes	C, W, Z	Complies	Clause 26.2e	568j-(cl-04)/01
2.5	2, 3 & 4	ENHANCED 120	PH 120	30 minutes	120 minutes	C, W, Z	Complies	Clause 26.2e	
4.0	2	ENHANCED 120	PH 120	30 minutes	120 minutes	C, W, Z	Complies	Clause 26.2e	

A copy of the certificate, confirming the full scope of approval including notes relating to the superscript references in the above table, may be viewed online by clicking on the product name in the associated entry on www.RedBookLive.com

Certificate No: 568c-(cl-10) to BS 7629-1:2015 (Standard 60)
BS 6387:2013 (Category CWZ)
EN 50200:2015 (Class PH120)
EN 50200:2015 Annex E (30 mins)
BS 5839-1:2013 (Clause 26.2d Standard)
EN 60754-2:2014

Premium X

Nominal csa of conductor (mm^2)	Core Construction	BS 67629-1	BS 6387	EN 50200	BS 5839-1	EN 60754-2	LPCB Ref. No.
1.0	2	Standard 60	C, W, Z	PH 120	Clause 26.2d	Complies	568c-(cl-10)-02
1.5	2, 3 & 4	Standard 60	C, W, Z	PH 120	Clause 26.2d	Complies	
2.5	2, 3 & 4	Standard 60	C, W, Z	PH 120	Clause 26.2d	Complies	
4	2, 3 & 4	Standard 60	C, W, Z	PH 120	Clause 26.2d	Complies	

A copy of the certificate, confirming the full scope of approval including notes relating to the superscript references in the above table, may be viewed online by clicking on the product name in the associated entry on www.RedBookLive.com

Certificate No: 568a-(cl-10)/02 to BS 6387:2013 (CWZ)
EN 60754-1:2014
EN 61034-2:2005+A2:2020
EN 50200:2015 (Class PH120)
EN 50200:2015 Annex E (30 mins)
EN 60754-2:2014
EN 60332-3-24:2009
EN 60332-3-25:2009

EN 60754-1:2014
EN 61034-2:2005+A2:2020
EN 50200:2015 (Class PH120)
EN 50200:2015 Annex E (30 mins)
EN 60754-2:2014
EN 60332-3-24:2009
EN 60332-3-25:2009

Premium

Nominal csa of conductor (mm^2)	Core Construction	BS 6387	EN 60754-1	EN 60754-2	EN 61034-2	EN 50200	EN 50200 Annex E	EN 60332-3-24	EN 60332-3-25	LPCB Ref. No.
1.5	2, 3 & 4	C,W,Z	<0.5% HCl	Complies	>60%	PH 120	30 minutes	Complies	Complies	568a-(cl-10)/02
4	2, 3 & 4	C,W,Z	<0.5% HCl	Complies	>60%	PH 120	30 minutes	Complies	Complies	
2.5	2, 3 & 4	C,W,Z	<0.5% HCl	Complies	>60%	PH 120	30 minutes	Complies	Complies	568a(cl-10)/02

A copy of the certificate, confirming the full scope of approval including notes relating to the superscript references in the above table, may be viewed online by clicking on the product name in the associated entry on www.RedBookLive.com

SHIELD FIRE, SAFETY AND SECURITY LIMITED

Unit 3 Endeavour Drive, Basildon, Essex SS14 3WF, United Kingdom
Tel: +44 1708 377731 • Fax: +44 1708 347637
E-mail: shielduk@shieldglobal.com • Website: www.shieldglobal.com

Certificate No: 682c-(cl-2) to BS6387:2013 (Category CWZ), EN 60754-1: 2014, EN 61034-2:2005+A1:2013, EN 50200: 2015 Annex E (30 mins), EN 50200: 2015 (Class PH120), EN 60332-3-24:2009 and EN 60332-3-25:2009

Shield-UK Premium

Nominal csa of conductor (mm^2)	Core Construction (excluding drain wire and earth)	BS 6387	EN 60754-1	EN 61034-2	EN 50200 Annex E	EN 50200	LPCB Ref. No.
1.0	2, 3 & 4	C, W, Z	<0.5% HCl	>60%	30 mins	PH120	682c/01
1.5	2, 3 & 4	C, W, Z	<0.5% HCl	>60%	30 mins	PH120	
2.5	2, 3 & 4	C, W, Z	<0.5% HCl	>60%	30 mins	PH120	
4.0	2, 3 & 4	C, W, Z	<0.5% HCl	>60%	30 mins	PH120	

A copy of the certificate, confirming the full scope of approval including notes relating to the superscript references in the above table, may be viewed online by clicking on the product name in the associated entry on www.RedBookLive.com

Certificate No: 682e(cl-2) to BS 6387:2013 (Category CWZ), EN 60754-1:2014. EN 61034-2:2005+A1:2013, EN 50200:2015 (Class PH30), EN 60332-3-24:2009 and EN 60332-3-25:2009

Shield-UK Special

Nominal csa of conductor (mm^2)	Core Construction (excluding drain wire and earth)	BS 6387	EN 60754-1	EN 61034-2	EN 50200	LPCB Ref. No.
1.0	2, 3 & 4	C, W, Z	<0.5% HCl	>60%	PH30	682e/01
1.5	2, 3 & 4	C, W, Z	<0.5% HCl	>60%	PH30	
2.5	2, 3 & 4	C, W, Z	<0.5% HCl	>60%	PH30	
4.0	2, 3 & 4	C, W, Z	<0.5% HCl	>60%	PH30	

A copy of the certificate, confirming the full scope of approval including notes relating to the superscript references in the above table, may be viewed online by clicking on the product name in the associated entry on www.RedBookLive.com

SHIELD FIRE, SAFETY AND SECURITY LTD

Unit 3 Endeavour Drive, Basildon, Essex SS14 3WF, United Kingdom
Tel: +44 207 712 1610 • Fax: +44 207 712 1578
E-mail: shielduk@shieldglobal.com • Website: www.shieldglobal.com

Certificate No: 682a-(cl-5) to BS 7629-1:2015 (STANDARD 60), BS 6387:2013 (CWZ), EN 50200:2015 (Class PH120), EN 50200:2015 Annex E (30 mins) BS 5839-1:2013 (Clause 26.2d Standard) EN 60332-3-24:2009 EN 60332-3-25:2009

Shield-UK

Nominal csa of conductor (mm^2)	Core Construction (excluding drain wire and earth)	BS 7629-1	BS 6387	EN 50200	EN 50200 Annex E	BS 5839-1 Clause 26.2	LPCB Ref. No.
1.0	2	STANDARD 60	C, W, Z	Class PH120	30 min	Standard	682a/01
1.5	2, 3 & 4	STANDARD 60	C, W, Z	Class PH120	30 min	Standard	
2.5	2, 3 & 4	STANDARD 60	C, W, Z	Class PH120	30 min	Standard	
4.0	2, 3 & 4	STANDARD 60	C, W, Z	Class PH120	30 min	Standard	

A copy of the certificate, confirming the full scope of approval including notes relating to the superscript references in the above table, may be viewed online by clicking on the product name in the associated entry on www.RedBookLive.com

SOUTHERN CABLE SDN. BHD.

Lot 42, Jalan Merbau Pulas, Kawasan Perusahaan Kuala Ketil, Kuala Ketil, Kedah 09300, Malaysia
Tel: +601 74044981
E-mail: zenazhar@southerncable.com.my

Certificate No: 1671a to BS 6387:2013 (Category CWZ) IEC 60754-1:2011 IEC 60754-2:2011 IEC 61034-2:2005+A2:2009 IEC 60331-21:1999

True Fire Resistant Cable

Nominal csa of conductor (mm^2)	Core Construction	BS 6387	IEC 60754-1	IEC 60754-2	IEC 61034-2	IEC 60331-21	LPCB Ref. No.
1.5	One	CWZ	<0.5%HCl	Complies	>60%	(90+15minutes)	1671a/01
2.5	One	CWZ	<0.5%HCl	Complies	>60%	(90+15minutes)	
4.0	One	CWZ	<0.5%HCl	Complies	>60%	(90+15minutes)	
6.0	One	CWZ	<0.5%HCl	Complies	>60%	(90+15minutes)	
10	One	CWZ	<0.5%HCl	Complies	>60%	(90+15minutes)	
16	One	CWZ	<0.5%HCl	Complies	>60%	(90+15minutes)	
25	One	CWZ	<0.5%HCl	Complies	>60%	(90+15minutes)	
35	One	CWZ	<0.5%HCl	Complies	>60%	(90+15minutes)	

Nominal csa of conductor (mm^2)	Core Construction	BS 6387	IEC 60754-1	IEC 60754-2	IEC 61034-2	IEC 60331-21	LPCB Ref. No.
50	One	CWZ	<0.5%HCl	Complies	>60%	(90+15minutes)	
70	One	C	<0.5%HCl	Complies	>60%	(90+15minutes)	
95	One	C	<0.5%HCl	Complies	>60%	(90+15minutes)	
120	One	C	<0.5%HCl	Complies	>60%	(90+15minutes)	
150	One	C	<0.5%HCl	Complies	>60%	(90+15minutes)	
185	One	C	<0.5%HCl	Complies	>60%	(90+15minutes)	
240	One	C	<0.5%HCl	Complies	>60%	(90+15minutes)	
300	One	C	<0.5%HCl	Complies	>60%	(90+15minutes)	
400	One	C	<0.5%HCl	Complies	>60%	(90+15minutes)	
500	One	-	<0.5%HCl	Complies	>60%	(90+15minutes)	
630	One	-	<0.5%HCl	Complies	>60%	(90+15minutes)	

A copy of the certificate, confirming the full scope of approval including notes relating to the superscript references in the above table, may be viewed online by clicking on the product name in the associated entry on www.RedBookLive.com

Studer Cables AG

Herrenmattstr. 20, CH 4658 Däniken, Switzerland
Tel: +41 62 288 82 82 • Fax: +41 62 288 83 83
E-mail: sales-export@studercables.com • Website: www.studercables.com

Certificate No: 896c to BS 6387: 2013 (CWZ), EN 60754-1:2014, EN 61034-2:2005+A1:2013, IEC 60332-1-2:2004, IEC 60331-21: 1999 and IEC 60332-3-24: 2009

BETAflam FR-MI 110 Cable Multicore, STA & SWA

Nominal csa of conductor (mm^2)	Core Construction	BS 6387	EN 60754-1	EN 61034-2	IEC 60332-1-2	IEC 60331-21	IEC 60332-3-24	LPCB Ref. No.
1.5(1)	2 - 41	CWZ	<0.5%HCl	>60%	Complies(4)	Complies(3)	Complies	896c/01
2.5(1)	2 - 24	CWZ	<0.5%HCl	>60%	Complies(4)	Complies(3)	Complies	
4.0(1)	2 - 7	CWZ	<0.5%HCl	>60%	Complies(4)	Complies(3)	Complies	
6.0(1)	2 - 5	CWZ	<0.5%HCl	>60%	Complies(4)	Complies(3)	Complies	
10(1)	2 - 5	CWZ	<0.5%HCl	>60%	Complies(4)	Complies(3)	Complies	
16(1)	2 - 5	CWZ	<0.5%HCl	>60%	Complies(4)	Complies(3)	Complies	
25(1)	2 - 5	CWZ	<0.5%HCl	>60%	Complies(4)	Complies(3)	Complies	
35(1)	2 - 5	CWZ	<0.5%HCl	>60%	Complies(4)	Complies(3)	Complies	
50(1)	2 - 5	CWZ	<0.5%HCl	>60%	Complies(4)	Complies(3)	Complies	
70(1)	2 - 5	CWZ	<0.5%HCl	>60%	Complies(4)	Complies(3)	Complies	
95(1)	2-5	CWZ	<0.5%HCl	-	Complies(4)	Complies(3)	Complies	
120(1)	3 & 4	CWZ	<0.5%HCl	-	Complies(4)	Complies(3)	Complies	
150(1)	3 & 4	CWZ	<0.5%HCl	-	Complies(4)	Complies(3)	Complies	
185(1)	3 & 4	CWZ	<0.5%HCl	-	Complies(4)	Complies(3)	Complies	
240(1)	3 & 4	CWZ	<0.5%HCl	-	Complies(4)	Complies(3)	Complies	
300(1)	3 & 4	CWZ	<0.5%HCl	-	Complies(4)	Complies(3)	Complies	
400(1)	3 & 4	CWZ	<0.5%HCl	-	Complies(4)	Complies(3)	Complies	

A copy of the certificate, confirming the full scope of approval including notes relating to the superscript references in the above table, may be viewed online by clicking on the product name in the associated entry on www.RedBookLive.com

Certificate No: 896c to BS 6387: 2013 (CWZ), EN 60754-1:2014, EN 61034-2:2005+A1:2013, IEC 60332-1-2:2004, IEC 60331-21: 1999 and IEC 60332-3-24: 2009

BETAflam FR-MI 110 Cable Multicore STA

Nominal csa of conductor (mm^2)	Core Construction	BS 6387	EN 60754-1	BS EN 61034-2	IEC 60332-1-2	IEC 60331-21	IEC 60332-3-24	LPCB Ref. No.
1.5(1)	2 - 41	CWZ	<0.5%HCl	>60%	Complies(5)	Complies(4)	Complies	896c/02
2.5(1)	2 - 21	CWZ	<0.5%HCl	>60%	Complies(5)	Complies(4)	Complies	
4.0(1)	2 - 7	CWZ	<0.5%HCl	>60%	Complies(5)	Complies(4)	Complies	
6.0(1)	2 - 5	CWZ	<0.5%HCl	>60%	Complies(5)	Complies(4)	Complies	
10(1)	2 - 5	CWZ	<0.5%HCl	>60%	Complies(5)	Complies(4)	Complies	
16(1)	3 - 5	CWZ	<0.5%HCl	>60%	Complies(5)	Complies(4)	Complies	
25(1)	3 - 5	CWZ	<0.5%HCl	>60%	Complies(5)	Complies(4)	Complies	

Nominal csa of conductor (mm²)	Core Construction	BS 6387	EN 60754-1	BS EN 61034-2	IEC 60332-1-2	IEC 60331-21	IEC 60332-3-24	LPCB Ref. No.
35[1]	3 - 5	CWZ	<0.5%HCl	>60%[3]	Complies[5]	Complies[4]	Complies	
50[1]	3 & 4	CWZ	<0.5%HCl	-	Complies[5]	Complies[4]	Complies	
70[1]	3 & 4	CWZ	<0.5%HCl	-	Complies[5]	Complies[4]	Complies	
95[1]	3 & 4	CWZ	<0.5%HCl	-	Complies[5]	Complies[4]	Complies	
120[1]	3 & 4	CWZ	<0.5%HCl	-	Complies[5]	Complies[4]	Complies	
150[1]	3 & 4	CWZ	<0.5%HCl	-	Complies[5]	Complies[4]	Complies	
185[1]	3 & 4	CWZ	<0.5%HCl	-	Complies[5]	Complies[4]	Complies	
240[1]	3 & 4	CWZ	<0.5%HCl	-	Complies[5]	Complies[4]	Complies	
300[1]	3 & 4	CWZ	<0.5%HCl	-	Complies[5]	Complies[4]	Complies	
400[1]	3 & 4	CWZ	<0.5%HCl	-	Complies[5]	Complies[4]	Complies	

A copy of the certificate, confirming the full scope of approval including notes relating to the superscript references in the above table, may be viewed online by clicking on the product name in the associated entry on www.RedBookLive.com

Certificate No: 896e to BS 6387: 1994, BS EN 50267-2-1: 1999, BS EN 61034-2: 2005, IEC 60332-3-22: 2008 and IEC 60332-3-24: 2008

BETAflam FR-SIR-F 90

Nominal csa of conductor (mm²)	Core construction (excluding drain wire)	BS 6387	BS EN 50267-2-1	BS EN 61034-2	IEC 60332-3-22	IEC 60332-3-24	LPCB Ref. No.
1.5[1]	1 pair	C,W,Z	<0.5% HCl	>60%	Complies	Complies	896e/01
2.5[1]	1 pair	C,W,Z	<0.5% HCl	>60%	Complies	Complies	

Uo/U 300/500V

Notes
1. Solid conductor only.

A copy of the certificate, confirming the full scope of approval including notes relating to the superscript references in the above table, may be viewed online by clicking on the certificate link in the associated entry on www.RedBookLive.com

Certificate No: 896f to BS 6387: 1994, BS EN 50267-2-1: 1999, BS EN 61034-2: 2005, IEC 60332-3-22: 2008 and IEC 60332-3-24: 2008

BETAflam FR-SIR-U 90

Nominal csa of conductor (mm²)	Core construction (excluding drain wire)	BS 6387	BS EN 50267-2-1	BS EN 61034-2	IEC 60332-3-22	IEC 60332-3-24	LPCB Ref. No.
2.5[1]	1 pair	C,W,Z	<0.5% HCl	>60%	Complies	Complies	896f/01

Uo/U 300/500V

Notes
1. Solid conductor only.

A copy of the certificate, confirming the full scope of approval including notes relating to the superscript references in the above table, may be viewed online by clicking on the certificate link in the associated entry on www.RedBookLive.com

Certificate No: 896g to BS 6387:2013 Category CWZ, EN 60754-1:2014, EN 611034-2:2005+A1:2013, IEC 60332-1-2:2004, IEC 60331-21:1999 and IEC 60332-3-24:2000

BETAflam FR-MI 90 Cable Multicore

Nominal csa of conductor (mm²)	Core Construction	BS 6387	EN 60754-1	EN 60134-2	IEC 60332-1-2	IEC 60331-21	IEC 60332-3-24	LPCB Ref. No.
1.5[1]	2-41	CWZ	<0.5% HCl	>60%	Complies[4]	Complies[3]	Complies	896g/01
10[1]	2-5	CWZ	<0.5%HCl	>60%	Complies[4]	Complies[3]	Complies	
120[1]	3 & 4	CWZ	<0.5%HCl	-	Complies[4]	Complies[3]	Complies	
150[1]	3 & 4	CWZ	<0.5%HCl	-	Complies[4]	Complies[3]	Complies	
16[1]	2-5	CWZ	<0.5%HCl	>60%	Complies[4]	Complies[3]	Complies	
185[1]	3 & 4	CWZ	<0.5%HCl	-	Complies[4]	Complies[3]	Complies	

Nominal csa of conductor (mm²)	Core Construction	BS 6387	EN 60754-1	EN 60134-2	IEC 60332-1-2	IEC 60331-21	IEC 60332-3-24	LPCB Ref. No.
2.5[1]	2-24	CWZ	<0.5%HCl	>60%	Complies[4]	Complies[3]	Complies	
240[1]	3 & 4	CWZ	<0.5%HCl	-	Complies[4]	Complies[3]	Complies	
25[1]	2.5	CWZ	<0.5%HCl	>60%	Complies[4]	Complies[3]	Complies	
300[1]	3 & 4	CWZ	<0.5%HCl	-	Complies[4]	Complies[3]	Complies	
35[1]	2-5	CWZ	<0.5%HCl	>60%	Complies[4]	Complies[3]	Complies	
4.0[1]	2-7	CWZ	<0.5%HCl	>60%	Complies[4]	Complies[3]	Complies	
400[1]	3 & 4	CWZ	<0.5%HCl	-	Complies[4]	Complies[3]	Complies	
50[1]	2-5	CWZ	<0.5%HCl	>60%	Complies[4]	Complies[3]	Complies	
6.0[1]	2-5	CWZ	<0.5%HCl	>60%	Complies[4]	Complies[3]	Complies	
70[1]	2-5	CWZ	<0.5%HCl	>60%	Complies[4]	Complies[3]	Complies	
95[1]	2-5	CWZ	<0.5%HCl	-	Complies[4]	Complies[3]	Complies	

A copy of the certificate, confirming the full scope of approval including notes relating to the superscript references in the above table, may be viewed online by clicking on the product name in the associated entry on www.RedBookLive.com

Certificate No: 896g to BS 6387:2013 Category CWZ, EN 60754-1:2014, EN 61034-2:2005+A1:2013. IEC 60332-1-2:2004, IEC 60331-21:1999 and IEC 60332-3-24:2000

BETAflam FR-MI 90 Cable Multicore STA

Nominal csa of conductor (mm²)	Core Construction	BS 6387	EN 60754-1	EN 61034-2	IEC 60332-1-2	IEC 60331-21	IEC 60332-3-24	LPCB Ref. No.
1.5[1]	2-41	CWZ	<0.5%HCl	>60%	Complies[5]	Complies[4]	Complies	896g/02
10[1]	2-5	CWZ	<0.5%HCl	>60%	Complies[5]	Complies[4]	Complies	
120[1]	3 & 4	CWZ	<0.5%HCl	-	Complies[5]	Complies[4]	Complies	
150[1]	3 & 4	CWZ	<0.5%HCl	-	Complies[5]	Complies[4]	Complies	
16[1]	3-5	CWZ	<0.5%HCl	>60%	Complies[5]	Complies[4]	Complies	
185[1]	3 & 4	CWZ	<0.5%HCl	-	Complies[5]	Complies[4]	Complies	
2.5[1]	2-21	CWZ	<0.5%HCl	>60%	Complies[5]	Complies[4]	Complies	
240[1]	3 & 4	CWZ	<0.5%HCl	-	Complies[5]	Complies[4]	Complies	
25[1]	3-5	CWZ	<0.5%HCl	>60%	Complies[5]	Complies[4]	Complies	
300[1]	3 & 4	CWZ	<0.5%HCl	-	Complies[5]	Complies[4]	Complies	
35[1]	3-5	CWZ	<0.5%HCl	>60%	Complies[5]	Complies[4]	Complies	
4.0[1]	2-7	CWZ	<0.5%HCl	>60%	Complies[5]	Complies[4]	Complies	
400[1]	3 & 4	CWZ	<0.5%HCl	-	Complies[5]	Complies[4]	Complies	
50[1]	3 & 4	CWZ	<0.5%HCl	-	Complies[5]	Complies[4]	Complies	
6.0[1]	2-5	CWZ	<0.5%HCl	>60%	Complies[5]	Complies[4]	Complies	
70[1]	3 & 4	CWZ	<0.5%HCl	-	Complies[5]	Complies[4]	Complies	
95[1]	3 & 4	CWZ	<0.5%HCl	-	Complies[5]	Complies[4]	Complies	

A copy of the certificate, confirming the full scope of approval including notes relating to the superscript references in the above table, may be viewed online by clicking on the product name in the associated entry on www.RedBookLive.com

Certificate No: 896d to BS 6387:2013 (C W Z) EN 60754-1:2014 IEC 60754-1:2011 EN / IEC 61034-2:2005+A1:2013 IEC 60331-21:1999 EN / IEC 60332-3-24:2009 EN / IEC 60332-1-2:2004

BETAflam FR-MI 110 Cable Comms S/UTP

Nominal csa of conductor (mm²)	Core Construction (excluding drain wire)	BS 6387	EN / IEC 60754-1	EN / IEC 61034-2	IEC 60331-21	EN / IEC 60332-1-2	EN / IEC 60332-3-24	LPCB Ref. No.
0.75	1 to 10 pairs	C W Z	<0.5% HCl	>60%	Complies	Complies	Complies	896d/01
1.0	1 to 10 pairs	C W Z	<0.5% HCl	>60%	Complies	Complies	Complies	
1.5	1 to 10 pairs	C W Z	<0.5% HCl	>60%	Complies	Complies	Complies	
2.5	1 to 10 pairs	C W Z	<0.5% HCl	>60%	Complies	Complies	Complies	

A copy of the certificate, confirming the full scope of approval including notes relating to the superscript references in the above table, may be viewed online by clicking on the product name in the associated entry on www.RedBookLive.com

Certificate No: 896a to BS 6387:2013 (Categories CWZ) EN/IEC 60754-1: 2014/2011 EN/IEC 61034-2:2005+A1:2013 IEC 60331-21:1999 EN/IEC 60332-1-2:2004+A11:2016 EN/IEC 60332-3-24:2009 EN/IEC 60332-3-22:2009 EN/IEC 60332-3-23:2009

Nominal csa of conductor (mm^2)	Core Construction	BS 6387	EN / IEC 60754-1	EN / IEC 61034-2	EN / IEC 60332-1-2	IEC 60331-21	EN / IEC 60332-3-22	EN / IEC 60332-3-23	EN / IEC 60332-3-24	LPCB Ref. No.
1.5	One	C W Z	<0.5% HCl	>60%	Complies	Complies	-	-	Complies	896a/01
2.5	One	C W Z	<0.5% HCl	>60%	Complies	Complies	-	-	Complies	
4.0	One	C W Z	<0.5% HCl	>60%	Complies	Complies	-	-	Complies	
6.0	One	C W Z	<0.5% HCl	>60%	Complies	Complies	-	-	Complies	
10	One	C W Z	<0.5% HCl	>60%	Complies	Complies	-	-	Complies	
16	One	C W Z	<0.5% HCl	>60%	Complies	Complies	-	-	Complies	
25	One	C W Z	<0.5% HCl	>60%	Complies	Complies	-	-	Complies	
35	One	C W Z	<0.5% HCl	>60%	Complies	Complies	-	-	Complies	
50	One	C W Z	<0.5% HCl	>60%	Complies	Complies	-	-	Complies	
70	One	C W Z	<0.5% HCl	>60%	Complies	Complies	-	-	Complies	
95	One	C W Z	<0.5% HCl	>60%	Complies	Complies	-	-	Complies	
120	One	C	<0.5% HCl	>60%	Complies	Complies	-	-	Complies	
150	One	C	<0.5% HCl	>60%	Complies	Complies	-	-	Complies	
185	One	C	<0.5% HCl	>60%	Complies	Complies	-	-	Complies	
240	One	C	<0.5% HCl	>60%	Complies	Complies	-	-	Complies	
300	One	C	<0.5% HCl	>60%	Complies	Complies	-	-	Complies	
400	One	C	<0.5% HCl	>60%	Complies	Complies	-	-	Complies	
500	One	-	<0.5% HCl	>60%	Complies	Complies	-	-	Complies	
630	One	-	<0.5% HCl	>60%	Complies	Complies	-	-	Complies	
1.5	One	C W Z	<0.5% HCl	>60%	Complies	Complies	Complies	Complies	Complies	896a/02
2.5	One	C W Z	<0.5% HCl	>60%	Complies	Complies	Complies	Complies	Complies	
4.0	One	C W Z	<0.5% HCl	>60%	Complies	Complies	Complies	Complies	Complies	
6.0	One	C W Z	<0.5% HCl	>60%	Complies	Complies	Complies	Complies	Complies	
10	One	C W Z	<0.5% HCl	>60%	Complies	Complies	Complies	Complies	Complies	
16	One	C W Z	<0.5% HCl	>60%	Complies	Complies	Complies	Complies	Complies	
25	One	C W Z	<0.5% HCl	>60%	Complies	Complies	Complies	Complies	Complies	
35	One	C W Z	<0.5% HCl	>60%	Complies	Complies	Complies	Complies	Complies	
50	One	C W Z	<0.5% HCl	>60%	Complies	Complies	Complies	Complies	Complies	
70	One	C	<0.5% HCl	>60%	Complies	Complies	Complies	Complies	Complies	
95	One	C	<0.5% HCl	>60%	Complies	Complies	Complies	Complies	Complies	
120	One	C	<0.5% HCl	>60%	Complies	Complies	Complies	Complies	Complies	
150	One	C	<0.5% HCl	>60%	Complies	Complies	Complies	Complies	Complies	
185	One	C	<0.5% HCl	>60%	Complies	Complies	Complies	Complies	Complies	
240	One	C	<0.5% HCl	>60%	Complies	Complies	Complies	Complies	Complies	
300	One	C	<0.5% HCl	>60%	Complies	Complies	Complies	Complies	Complies	
400	One	-	<0.5% HCl	>60%	Complies	Complies	Complies	Complies	Complies	
500	One	-	<0.5% HCl	>60%	Complies	Complies	Complies	Complies	Complies	
630	One	-	<0.5% HCl	>60%	Complies	Complies	Complies	Complies	Complies	

A copy of the certificate, confirming the full scope of approval including notes relating to the superscript references in the above table, may be viewed online by clicking on the product name in the associated entry on www.RedBookLive.com

Certificate No: 896b to BS 6387:2013 (Categories CWZ) EN/IEC 60754-1: 2014/2011 EN/IEC 61034-2:2005+A1:2013 IEC 60331-21:1999 EN/IEC 60332-3-24:2009 EN/IEC 60332-3-22:2009 EN/IEC 60332-3-23:2009

Nominal csa of conductor (mm^2)	Core Construction	BS 6387	EN / IEC 60754-1	EN / IEC 61034-2	IEC 60331-21	EN / IEC 60332-3-22	EN / IEC 60332-3-23	EN / IEC 60332-3-24	LPCB Ref. No.
1.5	One	C W Z	<0.5% HCl	>60%	Complies	-	-	Complies	896b/01
2.5	One	C W Z	<0.5% HCl	>60%	Complies	-	-	Complies	
4.0	One	C W Z	<0.5% HCl	>60%	Complies	-	-	Complies	
6.0	One	C W Z	<0.5% HCl	>60%	Complies	-	-	Complies	
10	One	C W Z	<0.5% HCl	>60%	Complies	-	-	Complies	
16	One	C W Z	<0.5% HCl	>60%	Complies	-	-	Complies	
25	One	C W Z	<0.5% HCl	>60%	Complies	-	-	Complies	
35	One	C W Z	<0.5% HCl	>60%	Complies	-	-	Complies	
50	One	C W Z	<0.5% HCl	>60%	Complies	-	-	Complies	
70	One	C W Z	<0.5% HCl	>60%	Complies	-	-	Complies	
95	One	C W Z	<0.5% HCl	>60%	Complies	-	-	Complies	
120	One	C	<0.5% HCl	>60%	Complies	-	-	Complies	
150	One	C	<0.5% HCl	>60%	Complies	-	-	Complies	
185	One	C	<0.5% HCl	>60%	Complies	-	-	Complies	
240	One	C	<0.5% HCl	>60%	Complies	-	-	Complies	
300	One	C	<0.5% HCl	>60%	Complies	-	-	Complies	
400	One	C	<0.5% HCl	>60%	Complies	-	-	Complies	
500	One	-	<0.5% HCl	>60%	Complies	-	-	Complies	
630	One	-	<0.5% HCl	>60%	Complies	-	-	Complies	
1.5	One	C W Z	<0.5% HCl	>60%	Complies	Complies	Complies	Complies	896b/02
2.5	One	C W Z	<0.5% HCl	>60%	Complies	Complies	Complies	Complies	
4.0	One	C W Z	<0.5% HCl	>60%	Complies	Complies	Complies	Complies	
6.0	One	C W Z	<0.5% HCl	>60%	Complies	Complies	Complies	Complies	
10	One	C W Z	<0.5% HCl	>60%	Complies	Complies	Complies	Complies	
16	One	C W Z	<0.5% HCl	>60%	Complies	Complies	Complies	Complies	
25	One	C W Z	<0.5% HCl	>60%	Complies	Complies	Complies	Complies	
35	One	C W Z	<0.5% HCl	>60%	Complies	Complies	Complies	Complies	
50	One	C W Z	<0.5% HCl	>60%	Complies	Complies	Complies	Complies	
70	One	C	<0.5% HCl	>60%	Complies	Complies	Complies	Complies	
95	One	C	<0.5% HCl	>60%	Complies	Complies	Complies	Complies	
120	One	C	<0.5% HCl	>60%	Complies	Complies	Complies	Complies	
150	One	C	<0.5% HCl	>60%	Complies	Complies	Complies	Complies	
185	One	C	<0.5% HCl	>60%	Complies	Complies	Complies	Complies	
240	One	C	<0.5% HCl	>60%	Complies	Complies	Complies	Complies	
300	One	C	<0.5% HCl	>60%	Complies	Complies	Complies	Complies	

Nominal csa of conductor (mm^2)	Core Construction	BS 6387	EN / IEC 60754-1	EN / IEC 61034-2	IEC 60331-21	EN / IEC 60332-3-22	EN / IEC 60332-3-23	EN / IEC 60332-3-24	LPCB Ref. No.
400	One	-	<0.5% HCl	>60%	Complies	Complies	Complies	Complies	
500	One	-	<0.5% HCl	>60%	Complies	Complies	Complies	Complies	
630	One	-	<0.5% HCl	>60%	Complies	Complies	Complies	Complies	

A copy of the certificate, confirming the full scope of approval including notes relating to the superscript references in the above table, may be viewed online by clicking on the product name in the associated entry on www.RedBookLive.com

Tai Sin Electric Limited

24 Gul Crescent, Jurong Town 629531, Singapore
Tel: 65 6672 9292 • Fax: 65 6861 4084
E-mail: yoononn@taisin.com.sg • Website: www.taisin.com.sg

Certificate No: 982d to BS 6387:2013 (Category CWZ) EN 61034-2:2005+A1:2013 EN 60754-1:2014 EN 60754-2:2014 IEC 60331-21:1999 EN 60332-3-22:2009 EN 60332-3-24:2009

FR-H110

Nominal csa of conductor (mm^2)	Core Construction	BS 6387	EN 61034-2	EN 60754-1	EN 60754-2	IEC 60331-21	EN 60332-3-22	EN 60332-3-24	LPCB Ref. No.
1.5	One	C, W, Z	>60%	0.5%HCl	Complies	Complies	Complies	-	982d/01
2.5	One	C, W, Z	>60%	0.5%HCl	Complies	Complies	Complies	-	
4.0	One	C, W, Z	>60%	0.5%HCl	Complies	Complies	Complies	-	
6.0	One	C, W, Z	>60%	0.5%HCl	Complies	Complies	Complies	-	
10	One	C, W, Z	>60%	0.5%HCl	Complies	Complies	Complies	-	
16	One	C, W, Z	>60%	0.5%HCl	Complies	Complies	Complies	-	
25	One	C, W, Z	>60%	0.5%HCl	Complies	Complies	Complies	-	
35	One	C, W, Z	>60%	0.5%HCl	Complies	Complies	Complies	-	
50	One	C, W, Z	>60%	0.5%HCl	Complies	Complies	-	Complies	
70	One	C, W, Z	>60%	0.5%HCl	Complies	Complies	-	Complies	
95	One	-	>60%	0.5%HCl	Complies	Complies	-	Complies	
120	One	C	>60%	0.5%HCl	Complies	Complies	-	Complies	
150	One	C	>60%	0.5%HCl	Complies	Complies	-	Complies	
185	One	C	>60%	0.5%HCl	Complies	Complies	-	Complies	
240	One	C	>60%	0.5%HCl	Complies	Complies	-	Complies	
300	One	C	>60%	0.5%HCl	Complies	Complies	-	Complies	
400	One	C	>60%	0.5%HCl	Complies	Complies	-	Complies	
500	One	C	>60%	0.5%HCl	Complies	Complies	-	Complies	
630	One	-	>60%	0.5%HCl	Complies	Complies	-	Complies	

A copy of the certificate, confirming the full scope of approval including notes relating to the superscript references in the above table, may be viewed online by clicking on the product name in the associated entry on www.RedBookLive.com

Certificate No: 982c to BS 6387:2013 (Category CWZ) IEC 60331-21:1999 EN 61034-2:2005+A1:2013 EN 60754-1:2014 EN 60754-2:2014 EN 60332-3-22:2009 EN 60332-3-24:2009

FR-ZH110

Nominal csa of conductor (mm^2)	Core Construction	BS 6387	EN 61034-2	EN 60754-1	EN 60754-2	IEC 60331-21	EN 60332-3-22	EN 60332-3-24	LPCB Ref. No.
1.5	One	C, W, Z	>60%	0.5% HCl	Complies	Complies	Complies	-	982c/01
2.5	One	C, W, Z	>60%	0.5% HCl	Complies	Complies	Complies	-	
4.0	One	C, W, Z	>60%	0.5% HCl	Complies	Complies	Complies	-	
6.0	One	C, W, Z	>60%	0.5% HCl	Complies	Complies	Complies	-	
10	One	C, W, Z	>60%	0.5% HCl	Complies	Complies	Complies	-	
16	One	C, W, Z	>60%	0.5% HCl	Complies	Complies	Complies	-	
25	One	C, W, Z	>60%	0.5% HCl	Complies	Complies	Complies	-	
35	One	C, W, Z	>60%	0.5% HCl	Complies	Complies	Complies	-	
50	One	C, W, Z	>60%	0.5% HCl	Complies	Complies	-	Complies	
70	One	-	>60%	0.5% HCl	Complies	Complies	-	Complies	
95	One	-	>60%	0.5% HCl	Complies	Complies	-	Complies	
120	One	-	>60%	0.5% HCl	Complies	Complies	-	Complies	
150	One	-	>60%	0.5% HCl	Complies	Complies	-	Complies	
185	One	C	>60%	0.5% HCl	Complies	Complies	-	Complies	
240	One	C	>60%	0.5% HCl	Complies	Complies	-	Complies	
300	One	C	>60%	0.5% HCl	Complies	Complies	-	Complies	
400	One	C	>60%	0.5% HCl	Complies	Complies	-	Complies	
500	One	-	>60%	0.5% HCl	Complies	Complies	-	Complies	
630	One	-	>60%	0.5% HCl	Complies	Complies	-	Complies	

A copy of the certificate, confirming the full scope of approval including notes relating to the superscript references in the above table, may be viewed online by clicking on the product name in the associated entry on www.RedBookLive.com

TecniKabel S.p.A.

Via Brandizzo 243, 10088 Volpiano (TO), Italy
Tel: +39 011 995 19 97 • Fax: +39 011 995 30 62
E-mail: clerici@tecnikabel.it • Website: www.tecnikabel.it

Certificate No: 1352b to BS 6387:2013, EN 50267-2-1:1999, EN 61034-2:2005 and EN 50200:2006 PH30

TK FR 30 Standard

Nominal csa of conductor (mm^2)	Core Construction (excluding drain wire & earth)	BS 6387	EN 50267-2-1	EN 61034-2	EN 50200	LPCB Ref. No.
0.5(1)	2, 3 & 4	C, W, Z	<0.5% HCl	>60%	PH30	1352b/01
0.75(1)	2, 3 & 4	C, W, Z	<0.5% HCl	>60%	PH30	
1.0(1)	2, 3 & 4	C, W, Z	<0.5% HCl	>60%	PH30	
1.5(1)	2, 3 & 4	C, W, Z	<0.5% HCl	>60%	PH30	
2.5(1)	2, 3 & 4	C, W, Z	<0.5% HCl	>60%	PH30	
4.0(2)	2, 3 & 4	C, W, Z	<0.5% HCl	>60%	PH30	

Uo/U 300/500

Notes:

1. Solid conductor only.
2. Stranded conductor only.

A copy of the certificate, confirming the full scope of approval including notes relating to the superscript references in the above table, may be viewed online by clicking on the certificate link in the associated entry on www.RedBookLive.com

Certificate No: 1352a to BS 6387:2013 CWZ, EN 50267-2-1:1999, EN 61034-2:2005+A1:2013, EN 50200:2006 Annex E (30 mins), EN 50200:2006 (Class PH120), EN 60332-3-24:2009 and EN 60332-3-25:2009

TK FR 120 Enhanced

Nominal csa of conductor (mm^2)	Core Construction (excluding drain wire and earth)	BS 6387	EN 50267-2-1	EN 61034-2	EN 50200 Annex E	EN 50200	LPCB Ref. No.
0.5	2, 3 & 4	C,W,Z	<0.5% HCl	>60%	30min	Class PH120	1352a/01
0.75	2, 3 & 4	C,W,Z	HCl	>60%	30min	Class PH120	
1.0	2, 3 & 4	C,W,Z	<0.5% HCl	>60%	30min	Class PH120	
1.5	2, 3 & 4	C,W,Z	<0.5% HCl	>60%	30min	Class PH120	
2.5	2, 3 & 4	C,W,Z	<0.5% HCl	>60%	30min	Class PH120	
4.0	2, 3 & 4	C,W,Z	<0.5% HCl	>60%	30min	Class PH120	

A copy of the certificate, confirming the full scope of approval including notes relating to the superscript references in the above table, may be viewed online by clicking on the product name in the associated entry on www.RedBookLive.com

Certificate No: 1352e to IEC 60331-25:1999 EN 61034-2:2005+A1:2013 EN 60754-1:2014 BS 6387:2013 (CWZ) EN 60332-3-24:2009

TOL6xD 48 4(12 LWP)VH9M

No of Fibre Optic	Type of Fibre	IEC 60331-25	EN 60332-3-24	EN 61034-2	EN 60754-1	LPCB Ref. No.
48	SM	Complies	Complies	>60%	<0.5% HCl	1352e/01

A copy of the certificate, confirming the full scope of approval including notes relating to the superscript references in the above table, may be viewed online by clicking on the product name in the associated entry on www.RedBookLive.com

Certificate No: 1352f to IEC 60331-25:1999 EN 61034-2:2005+A1:2013 EN 60754-1:2014 BS 6387:2013 (CWZ) EN 60332-3-24:2009

TOL8xD 96 8(12 LWP)VH9M

No of Fibre Optic	Type of Fibre	IEC 60331-25	IEC 60332-3-24	EN 61034-2	EN 60754-1	LPCB Ref. No.
96	SM	Complies	Complies	>60%	<0.5% HCl	1352f/01

A copy of the certificate, confirming the full scope of approval including notes relating to the superscript references in the above table, may be viewed online by clicking on the product name in the associated entry on www.RedBookLive.com

Certificate No: 1352g to BS 7629-1:2015 Enhanced 120 BS 6387:2013 (Category CWZ) BS 5839-1:2013 Clause 26.2e

TK Flexible Extreme Fire Safety Cable

Nominal csa of conductor (mm^2)	Core Construction	BS 7629-1	BS 6387	BS 5839-1 Clause 26.2e	LPCB Ref. No.
1.5	2 , 3 & 4	Enhanced 120	C,W,Z	Enhanced	1352g/01
2.5	2 , 3 & 4	Enhanced 120	C,W,Z	Enhanced	
4.0	2 , 3 & 4	Enhanced 120	C,W,Z	Enhanced	

A copy of the certificate, confirming the full scope of approval including notes relating to the superscript references in the above table, may be viewed online by clicking on the product name in the associated entry on www.RedBookLive.com

Certificate No: 1352c to BS 6387:2013 (CWZ) EN 60754-1:2014 EN 61034-2:2005+A1:2013 EN 50200:2015 (Class PH30)

TK Prime Fire Resistant Cable

Nominal csa of conductor (mm^2)	Core Construction (excluding drain wire and earth)	BS 6387	EN 60754-1	EN 61034-2	EN 50200	LPCB Ref. No.
1.5	2, 3 & 4	CWZ	<0.5% HCl	>60%	PH30	1352c/01
2.5	2, 3 & 4	CWZ	<0.5% HCl	>60%	PH30	1352C/01
4.0	2, 3 & 4	CWZ	<0.5% HCl	>60%	PH30	

A copy of the certificate, confirming the full scope of approval including notes relating to the superscript references in the above table, may be viewed online by clicking on the product name in the associated entry on www.RedBookLive.com

Certificate No: 1352d to BS 6387:2013 (CWZ) EN 60754-1:2014 EN 61034-2:2005+A1:2013 EN 50200:2015 (Class PH120) EN 50200:2015 Annex E (30 mns)

TK Supreme Fire Resistant Cable

Nominal csa of conductor (mm^2)	Core Construction(excluding drain wire and earth)	BS 6387	EN 60754-1	EN 61034-2	EN 50200	EN 50200 Annex E	LPCB Ref. No.
2.5	2, 3 & 4	CWZ	<0.5% HCl	>60%	PH120	30 mins	1252d/01
1.5	2, 3 & 4	CWZ	<0.5% HCl	>60%	PH120	30 mins	1352d/01
4.0	2, 3 & 4	CWZ	<0.5% HCl	>60%	PH120	30 mins	

A copy of the certificate, confirming the full scope of approval including notes relating to the superscript references in the above table, may be viewed online by clicking on the product name in the associated entry on www.RedBookLive.com

Certificate No: 1352h to IEC 60331-25:1999 EN 60332-3-22:2009 EN 61034-2:2005+A1:2013 EN 60754-1:2014 BS 6387:2013 CWZ BS 8434-2:2003+A2:2009 (120 mins)

TK OPTIFIRE MTX OPTICAL FIBRE CABLE

Total No of FO	No of FO in each tube	No tubes/fillers	Type of Fibre	IEC 60331-25	BS 6387	BS 8434-2	EN 60332-3-22	EN 61034-2	EN 60754-1	LPCB Ref. No.
2	2	1 tube + 5 fillers	SM or MM	(90+15) min	CWZ	120 min	Complies	>60%	<0.5% HCl	1352h/01
4	4	1 tube + 5 fillers	SM or MM	(90+15) min	CWZ	120 min	Complies	>60%	<0.5% HCl	
6	6	1 tube + 5 fillers	SM or MM	(90+15) min	CWZ	120 min	Complies	>60%	<0.5% HCl	
8	8	1 tube + 5 fillers	SM or MM	(90+15) min	CWZ	120 min	Complies	>60%	<0.5% HCl	
12	6	2 tubes + 4 fillers	SM or MM	(90+15) min	CWZ	120 min	Complies	>60%	<0.5% HCl	
12	12	1 tube + 5 fillers	SM or MM	(90+15) min	CWZ	120 min	Complies	>60%	<0.5% HCl	
24	12	2 tubes + 4 fillers	SM or MM	(90+15) min	CWZ	120 min	Complies	>60%	<0.5% HCl	
24	24	1 tube + 5 fillers	SM or MM	(90+15) min	CWZ	120 min	Complies	>60%	<0.5% HCl	
36	12	3 tubes + 3 fillers	SM or MM	(90+15) min	CWZ	120 min	Complies	>60%	<0.5% HCl	
48	12	4 tubes + 2 fillers	SM or MM	(90+15) min	CWZ	120 min	Complies	>60%	<0.5% HCl	
48	24	2 tubes + 4 fillers	SM or MM	(90+15) min	CWZ	120 min	Complies	>60%	<0.5% HCl	
60	12	5 tubes + 1 filler	SM or MM	(90+15) min	CWZ	120 min	Complies	>60%	<0.5% HCl	
72	12	6 tubes	SM or MM	(90+15) min	CWZ	120 min	Complies	>60%	<0.5% HCl	
72	24	3 tubes + 3 fillers	SM or MM	(90+15) min	CWZ	120 min	Complies	>60%	<0.5% HCl	
96	24	4 tubes + 2 fillers	SM or MM	(90+15) min	CWZ	120 min	Complies	>60%	<0.5% HCl	
120	24	5 tubes + 1 filler	SM or MM	(90+15) min	CWZ	120 min	Complies	>60%	<0.5% HCl	
144	24	6 tubes	SM or MM	(90+15) min	CWZ	120 min	Complies	>60%	<0.5% HCl	

A copy of the certificate, confirming the full scope of approval including notes relating to the superscript references in the above table, may be viewed online by clicking on the product name in the associated entry on www.RedBookLive.com

Tekab Co. LLC

Industrial Area No. 13, PO Box 40474, Sharjah, United Arab Emirates
Tel: 0097 165 034 900
E-mail: general@tekab.com • Website: www.tekab.com

Certificate No: 1517b to BS 6387:2013 (Category CWZ)
EN 50200:2015 (Class PH120)
EN 61034-2:2005+A2:2020
EN 60754-1:2014
IEC 60331-21:1999

EN 50200:2015 (Class PH120)
EN 61034-2:2005+A2:2020
EN 60754-1:2014
IEC 60331-21:1999

Firetek

Nominal csa of conductor (mm^2)	Core Construction	BS 6387	EN 50200	IEC 60331-21	EN 60754-1	EN 61034-2	LPCB Ref. No.
1.5	2, 3 & 4	C W Z	PH120	-	<0.5%HCl	>60%	1517b/01
2.5	2, 3 & 4	C W Z	PH 120	-	<0.5% HCl	>60%	
2.5	5	C W Z	PH 120	-	<0.5% HCl	>60 %	
4.0	2, 3 & 4	C W Z	PH 120	-	<0.5% HCl	>60%	
1.5	2 , 3 & 4	C W Z	PH120	(180+15) minutes	<0.5% HCl	>60%	1517b/02
2.5	2 , 3 & 4	C W Z	PH 120	(180+15) minutes	<0.5% HCl	>60%	
4.0	2 , 3 & 4	C W Z	PH 120	(180+15) minutes	<0.5% HCl	>60%	
1.5	2 , 3 & 4	C W Z	PH 120	(180+15) minutes	<0.5% HCl	>60%	1517b/03
2.5	2 , 3 & 4	C W Z	PH 120	(180+15) minutes	<0.5% HCl	>60%	
4.0	2 , 3 & 4	C W Z	PH 120	(180+15) minutes	<0.5% HCl	>60%	

A copy of the certificate, confirming the full scope of approval including notes relating to the superscript references in the above table, may be viewed online by clicking on the product name in the associated entry on www.RedBookLive.com

Certificate No: 1517c to BS 6387:2013 (Category CWZ)
EN 50200:2015 (Class PH120)
EN 61034-2:2005+A2:2020
EN 60754-1:2014
IEC 60331-21:1999

FireTek Smart

Nominal csa of conductor (mm^2)	Core Construction	BS 6387	EN 50200	IEC 60331-21	EN 60754-1	EN 61034-2	LPCB Ref. No.
1.5	2, 3 & 4	C W Z	PH 120	(180 +15) minutes	<0.5% HCl	>60%	1517c/01
2.5	2, 3 & 4	C W Z	PH 120	(180 +15) minutes	<0.5% HCl	>60%	
4.0	2, 3 & 4	C W Z	PH 120	(180 +15) minutes	<0.5% HCl	>60%	

A copy of the certificate, confirming the full scope of approval including notes relating to the superscript references in the above table, may be viewed online by clicking on the product name in the associated entry on www.RedBookLive.com

Teksfera Mechanical and Engineering Trading LLC

P O Box 122362, Dubai, United Arab Emirates
Tel: 00 971 423 40 880
E-mail: nisham@teksfera.com

Certificate No: 1383b-(cl-6) to BS 6387:2013 (Category CWZ) EN 50200:2015 (Class PH120) EN 50200:2015 Annex E (30 mins) EN 61034-2:2005+A2:2020 EN 60754-1:2014 EN 60332-1-2:2004

nTek Fire Resistant Cable

Nominal csa of conductor	Core Construction	BS 6387	EN 50200	EN50200 Annex E	EN 60754-1	EN 61034-2	EN 60332-1-2	LPCB Ref. No.
1.5	2, 3 & 4	C, W, Z	PH120	30 min	<0.5%	>60%	Complies	1383b-(cl-6)
2.5	2, 3 & 4	C, W, Z	PH120	30 min	<0.5%	>60%	Complies	

A copy of the certificate, confirming the full scope of approval including notes relating to the superscript references in the above table, may be viewed online by clicking on the product name in the associated entry on www.RedBookLive.com

TELE-FONIKA kable S.A.

ul. Hipolita Cegielskiego 1, Myslenice 32400, Poland
Tel: +48 12 652 00 00 • Fax: +48 12 652 51 56
E-mail: robert.slapak@tfkable.com • Website: www.tfkable.com

Certificate No: 1354e to BS 7629-1:2015 Standard 30 & 60 EN 50200:2015 Annex E BS 6387:2013 (CWZ) BS 5839-1:2013 (Clause 26.2d)

FLAME-X 950 SERIES 2

Nominal csa of conductor (mm^2)	Core Construction	BS7629-1	BS 6387	EN 50200	BS 5839-1	LPCB Ref. No.
1.0	2	STANDARD 30,60	C, W, Z	PH120 & Annex E	26.2d	1354e/01
1.5	2, 3, 4, 7, 12 & 19	STANDARD 30,60	C, W, Z	PH120 & Annex E	26.2d	
2.5	2, 3, 4, 7 & 12	STANDARD 30,60	C, W, Z	PH120 & Annex E	26.2d	
4.0	2, 3 & 4	STANDARD 30,60	C, W, Z	PH120 & Annex E	26.2d	

A copy of the certificate, confirming the full scope of approval including notes relating to the superscript references in the above table, may be viewed online by clicking on the product name in the associated entry on www.RedBookLive.com

Certificate No: 1354f to BS 7629-1:2015 Enhanced 120 EN 50200:2015 Annex E BS 6387:2013 (CWZ) BS 8434-2:2003+A2:2009 (120 mins)

FLAME-X 950 SERIES 2E

Nominal csa of conductor (mm^2)	Core Construction	BS 7629-1	BS 6387	EN 50200	BS 8434-2	BS 5839-1	LPCB Ref. No.
1.0	2	ENHANCED 120	C, W, Z	PH120 & Annex E	120 mins	26.2e	1354f/01
1.5	2, 3, & 4	ENHANCED 120	C, W, Z	PH120 & Annex E	120 mins	26.2e	
2.5	2, 3, & 4	ENHANCED 120	C, W, Z	PH120 & Annex E	120 mins	26.2e	
4.0	2, 3, & 4	ENHANCED 120	C, W, Z	PH120 & Annex E	120 mins	26.2e	

A copy of the certificate, confirming the full scope of approval including notes relating to the superscript references in the above table, may be viewed online by clicking on the product name in the associated entry on www.RedBookLive.com

Tianjin Pro Made Fire Equipment Company Limited

25th Floor, 2nd Tower, Beichen Building, Beichen District, Tianjin, China
Tel: +86 22 5889 2190 • Fax: +86 22 5889 2195
E-mail: info@tpmcsteel.com • Website: www.tpmcsteel.com

Certificate No: 1383a-(cl-2) to BS 6387:2013 (Category CWZ) EN 50200:2015 (Class PH30) EN 50200:2015 Annex E (30 mins) EN 61034-2:2005+A2:2020 EN 60754-1:2014 EN 60332-1-2:2004

TPMC FIRE RESISTANT CABLE

Nominal conductor of csa	Core Construction	BS 6387	EN 50200	EN 50200 Annex E	EN 60754-1	EN 61034-2	EN 60332-1-2	LPCB Ref. No.
1.0	2, 3 & 4	C, W, Z	PH30	30 min	<0.5%	>60%	Complies	1383a-(cl-2)
1.5	2, 3 & 4	C, W, Z	PH30	30 min	<0.5%	>60%	Complies	
2.5	2, 3 & 4	C, W, Z	PH30	30 min	<0.5%	>60%	Complies	

A copy of the certificate, confirming the full scope of approval including notes relating to the superscript references in the above table, may be viewed online by clicking on the product name in the associated entry on www.RedBookLive.com

Turk Prysmian Kablo ve Sistemleri A.S.

Omerbey Mah, Bursa Asfalti Cad. No: 51, 16941 Mudanya, Bursa, Turkey
Tel: 00 90 224 270 3000 • Fax: 0090 224 270 3030
E-mail: tpks@prysmiangroup.com • Website: www.prysmian.com.tr

Certificate No: 1151a to BS EN 60332-1-2: 2004, BS EN 60332-3-24: 2009, BS EN 61034-2: 2005, BS EN 50267-2-1: 1999, BS EN 50267-2-2: 1999 and BS EN 50267-2-3: 1999

AFUMEX NHXMH

Nominal csa of conductor (mm^2)	Core construction	EN 60332-1-2	EN 60332-3-24	EN 50267-2-1	EN 50267-2-3 (see note 3)	EN 61034-2	LPCB Ref. No.
1.5[1]	2, 3, 4 & 5	Complies	Complies	<0.5% HCl	Complies	>60%	1151a/01
10[1, 2]	2, 3, 4 & 5	Complies	Complies	<0.5% HCl	Complies	>60%	
16[2]	2, 3, 4 & 5	Complies	Complies	<0.5% HCl	Complies	>60%	
2.5[1]	2, 3, 4 & 5	Complies	Complies	<0.5% HCl	Complies	>60%	
4.0[1]	2, 3, 4 & 5	Complies	Complies	<0.5% HCl	Complies	>60%	
6.0[1]	2, 3, 4 & 5	Complies	Complies	<0.5% HCl	Complies	>60%	

U0/U 300/500V

Notes:

1. Solid conductor only.
2. Stranded conductor only.
3. In achieving a weighted average of pH greater than 4.3 and a weighted average of Conductivity less than 10µS/mm on the constituent materials when tested in accordance with BS EN 50267-2-3: 1999, the AFUMEX NHXMH cables listed also met the requirements of BS EN 50267-2-2: 1999.

A copy of the certificate, confirming the full scope of approval including notes relating to the superscript references in the above table, may be viewed online by clicking on the product name in the associated entry on www.RedBookLive.com

Certificate No: 1151b to BS EN 60332-1-2: 2004, BS EN 60332-3-24: 2009, BS EN 61034-2: 2005. BS EN 50267-2-1: 1999, BS EN 50267-2-2: 1999 and BS EN 50267-2-3: 1999

AFUMEX H07Z1

Nominal csa of conductor (mm^2)	Core construction	BS EN 60332-1-2	BS EN 60332-3-24	BS EN 50267-2-1	BS EN 50267-2-3 (see note 4)	BS EN 60134-2	LPCB Ref. No.
1.5	One[3]	Complies	Complies	0.5% HCl	Complies	>60%	1151b/01

Nominal csa of conductor (mm²)	Core construction	BS EN 60332-1-2	BS EN 60332-3-24	BS EN 50267-2-1	BS EN 50267-2-3 (see note 4)	BS EN 60134-2	LPCB Ref. No.
2.5	One(3)	Complies	Complies	0.5% HCl	Complies	>60%	
4.0	One(3)	Complies	Complies	0.5% HCl	Complies	>60%	
6.0	One(3)	Complies	Complies	0.5% HCl	Complies	>60%	
10	One(3)	Complies	Complies	0.5% HCl	Complies	>60%	
16	One(3)	Complies	Complies	0.5% HCl	Complies	>60%	
25	One(3)	Complies	Complies	0.5% HCl	Complies	>60%	
35	One(3)	Complies	Complies	0.5% HCl	Complies	>60%	
50	One(3)	Complies	Complies	0.5% HCl	Complies	>60%	
70	One(3)	Complies	Complies	0.5% HCl	Complies	>60%	
95	One(3)	Complies	Complies	0.5% HCl	Complies	>60%	
120	One(3)	Complies	Complies	0.5% HCl	Complies	>60%	
150	One(3)	Complies	Complies	0.5% HCl	Complies	>60%	
185	One(3)	Complies	Complies	0.5% HCl	Complies	>60%	
240	One(3)	Complies	Complies	0.5% HCl	Complies	>60%	
10	One(2)	Complies	Complies	0.5% HCl	Complies	>60%	
16	One(2)	Complies	Complies	0.5% HCl	Complies	>60%	
25	One(2)	Complies	Complies	0.5% HCl	Complies	>60%	
35	One(2)	Complies	Complies	0.5% HCl	Complies	>60%	
50	One(2)	Complies	Complies	0.5% HCl	Complies	>60%	
70	One(2)	Complies	Complies	0.5% HCl	Complies	>60%	
95	One(2)	Complies	Complies	0.5% HCl	Complies	>60%	
120	One(2)	Complies	Complies	0.5% HCl	Complies	>60%	
150	One(2)	Complies	Complies	0.5% HCl	Complies	>60%	
185	One(2)	Complies	Complies	0.5% HCl	Complies	>60%	
240	One(2)	Complies	Complies	0.5% HCl	Complies	>60%	
1.5	One(1)	Complies	Complies	0.5% HCl	Complies	>60%	
2.5	One(1)	Complies	Complies	0.5% HCl	Complies	>60%	
4.0	One(1)	Complies	Complies	0.5% HCl	Complies	>60%	
6.0	One(1)	Complies	Complies	0.5% HCl	Complies	>60%	
10	One(1)	Complies	Complies	0.5% HCl	Complies	>60%	

Uo/U 450/750V

Notes:
1. Solid (Class 1) conductor.
2. Stranded (Class 2) conductor.
3. Flexible (Class 5) conductor.
4. In achieving a weighted average of pH greater than 4.3 and a weighted average of conductivity less thant 10µS/mm on the constituent materials when tested in accordance with BS EN 50267-2-3: 1999, the AFUMEX H07Z1 cables listed also met the requirements of BS EN 50267-2-2: 1999.

A copy of the certificate, confirming the full scope of approval including notes relating to the superscript references in the above table, may be viewed online by clicking on the product name in the associated entry on www.RedBookLive.com

Certificate No: 1151c to EN 61034-2:2005, EN 50267-2-1:1999, EN 50267-2-2:1999, EN 50267-2-3:1999, IEC 60331-21:1999, EN 60332-1-2:2004, EN 60332-3-24:2009

AFUMEX N2XH FE 180

Nominal csa of conductor (mm²)	Core Construction drain wire and earth)	EN 61034-2	EN 50267-2-1	EN 50267-2-3	IEC 60331-21	EN 60332-3-24	LPCB Ref. No.
120/70	3	>60%	<0.5% HCl	Complies	Complies	Complies	1151c/01
150/70	3	>60%	<0.5% HCl	Complies	Complies	Complies	
16/10	3	>60%	<0.5% HCl	Complies	Complies	Complies	
185/95	3	>60%	<0.5% HCl	Complies	Complies	Complies	
240/120	3	>60%	<0.5% HCl	Complies	Complies	Complies	
25/16	3	>60%	<0.5% HCl	Complies	Complies	Complies	
35/16	3	>60%	<0.5% HCl	Complies	Complies	Complies	

Nominal csa of conductor (mm^2)	Core Construction drain wire and earth)	EN 61034-2	EN 50267-2-1	EN 50267-2-3	IEC 60331-21	EN 60332-3-24	LPCB Ref. No.
50/25	3	>60%	<0.5% HCl	Complies	Complies	Complies	
70/35	3	>60%	<0.5% HCl	Complies	Complies	Complies	
95/50	3	>60%	<0.5% HCl	Complies	Complies	Complies	

Uo/U 600/1000V

Notes:
1. Solid conductor only.
2. Stranded conductor only.
3. The AFUMEX N2XH FE 180 cables met the requirements of IEC 60331-21:1999 when tested at a temperature of 750°C for a duration of 180mins at a voltage rating of 600/1000V.
4. In achieving a weighted average of pH greater than 4.3 and a weighted average of donductivity less than 10µS/mm on the constituent materials when tested in accordance with EN 50267-2-3:1999, the AFEMEX N2XH FE 180 cables listed also met the requirements of EN 50267-2-2:1999.
5. The AFUMEX N2XH FE 180 cables listed also met the requirements of EN 60332-1-2:2004.

A copy of the certificate, confirming the full scope of approval including notes relating to the superscript references in the above table, may be viewed online by clicking on the product name in the associated entry on www.RedBookLive.com

Certificate No: 1151d to EN 61034-2:2005, EN 50267-2-1:1999, EN 50267-2-2:1999, EN 50267-2-3:1999, EN 60332-1-2:2004, EN 60332-3-24:2009

AFUMEX N2XH

Nominal csa of conductor (mm^2)	Core Construction (excluding drain wire and earth)	EN 61034-2	EN 50267-2-1	EN 50267-2-3	EN 60332-3-24	LPCB Ref. No.
120/70	3	>60%	<0.5% HCl	Complies	Complies	1151d/01
150/70	3	>60%	<0.5% HCl	Complies	Complies	
16/10	3	>60%	<0.5% HCl	Complies	Complies	
185/95	3	>60%	<0.5% HCl	Complies	Complies	
240/120	3	>60%	<0.5% HCl	Complies	Complies	
25/16	3	>60%	<0.5% HCl	Complies	Complies	
35/16	3	>60%	<0.5% HCl	Complies	Complies	
50/25	3	>60%	<0.5% HCl	Complies	Complies	
70/35	3	>60%	<0.5% HCl	Complies	Complies	
95/50	3	>60%	<0.5% HCl	Complies	Complies	

Uo/U 600/1000V

Notes:
1. Solid conductor only.
2. Stranded conductor only.
3. In achieving a weighted average of pH greater than 4.3 and a weighted average of donductivity less than 10µS/mm on the constituent materials when tested in accordance with EN 50267-2-3:1999, the AFEMEX N2XH cables listed also met the requirements of EN 50267-2-2:1999.
4. The AFUMEX N2XH cables listed also met the requirements of EN 60332-1-2:2004.

A copy of the certificate, confirming the full scope of approval including notes relating to the superscript references in the above table, may be viewed online by clicking on the product name in the associated entry on www.RedBookLive.com

Union Cable Company Ltd

Unit 15, Faraday Road, Astmoor Industrial Estate, Runcorn, Cheshire WA7 1QF, United Kingdom
Tel: +44 (0)1928 577 418 • Fax: +44 (0)1928 581 099jim@unioncable.co.uk
E-mail: sales@unioncable.co.uk • Website: www.unioncable.co.uk

Certificate No: 682d-(cl-3) to BS 7629-1:2015 (ENHANCED 120) BS 6387:2013 (CWZ) EN 50200:2015 (Class PH120) BS 8434-2:2003 BS 5839-1:2013 (Clause 26.2 Enhanced) EN 60332-3-24 EN 60332-3-25

Firetrax Xcel

Nominal csa of conductor (mm^2)	Core Construction (excluding drain wire and earth)	BS 7629-1	BS 6387	EN 50200	BS 8434-2	BS 5839-1 Clause 26.2	LPCB Ref. No.
1.0	2	ENHANCED 120	C, W, Z	Class PH120	120 min	Enhanced	682d/01
1.5	2, 3 & 4	ENHANCED 120	C, W, Z	Class PH120	120 min	Enhanced	
2.5	2, 3 & 4	ENHANCED 120	C, W, Z	Class PH120	120 min	Enhanced	
4.0	2, 3 & 4	ENHANCED 120	C, W, Z	Class PH120	120 min	Enhanced	

A copy of the certificate, confirming the full scope of approval including notes relating to the superscript references in the above table, may be viewed online by clicking on the product name in the associated entry on www.RedBookLive.com

Certificate No: 682a-(cl-2) to BS 7629-1:2015 (STANDARD 60), BS 6387:2013 (CWZ), EN 50200:2015 (Class PH120), EN 50200:2015 Annex E (30 mins), BS 5839-1:2013 (26.2 Standard), EN 603323-24:2009 and EN 60332-3-25: 2009

Firetrax Gold

Nominal csa of conductor (mm^2)	Core Construction (excluding drain wire and earth)	BS 7629-1	BS 6387	EN 50200	EN 50200 Annex E	BS 5839-1 Clause 26.2	LPCB Ref. No.
1.0	2	STANDARD 60	C, W, Z	Class PH120	30 min	Standard	682a/01
1.5	2, 3 & 4	STANDARD 60	C, W, Z	Class PH120	30 min	Standard	
2.5	2, 3 & 4	STANDARD 60	C, W, Z	Class PH120	30 min	Standard	
4.0	2, 3 & 4	STANDARD 60	C, W, Z	Class PH120	30 min	Standard	

A copy of the certificate, confirming the full scope of approval including notes relating to the superscript references in the above table, may be viewed online by clicking on the product name in the associated entry on www.RedBookLive.com

Ventcroft Limited

Faraday Road, Astmoor Industrial Estate, Runcorn, Cheshire WA7 1PE, United Kingdom
Tel: +44 (0)1928 581098 • Fax: +44 (0)1928 581099
E-mail: sales@ventcroft.co.uk • Website: www.ventcroft.co.uk

Certificate No: 682a to BS 7629-1:2015 (STANDARD 60) BS 6387:2013 (CWZ) EN 50200:2015 (Class PH120) EN 50200:2015 Annex E (30 mins) BS 5839-1:2013 (Clause 26.2d Standard) EN 60332-3-24:2009 EN 60332-3-25:2009

NoBurn Platinum

Nominal csa of conductor (mm^2)	Core Construction (excluding drain wire and earth)	BS 7629-1	BS 6387	EN 50200	EN 50200 Annex E	BS 5839-1 Clause 26.2	LPCB Ref. No.
1.0	2	STANDARD 60	C, W, Z	Class PH120	30 min	Standard	682a/01
1.5	2, 3 & 4	STANDARD 60	C, W, Z	Class PH120	30 min	Standard	
2.5	2, 3 & 4	STANDARD 60	C, W, Z	Class PH120	30 min	Standard	
4.0	2, 3 & 4	STANDARD 60	C, W, Z	Class PH120	30 min	Standard	

A copy of the certificate, confirming the full scope of approval including notes relating to the superscript references in the above table, may be viewed online by clicking on the product name in the associated entry on www.RedBookLive.com

Certificate No: 682d to BS 7629-1:2015 (ENHANCED 120) BS 6387:2013 (CWZ) EN 50200:2015 (Class PH120) BS 8434-2:2003 BS 5839-1:2013 (Clause 26.2e Enhanced) EN 60332-3-24:2009 EN 60332-3-25:2009

NoBurn Plus

Nominal csa of conductor (mm^2)	Core Construction (excluding drain wire and earth)	BS 7629-1	BS 6387	EN 50200	BS 8434-2	BS 5839-1 Clause 26.2	LPCB Ref. No.
1.0	2	ENHANCED 120	C, W, Z	Class PH120	120min	Enhanced	682d/01
1.5	2, 3, & 4	ENHANCED 120	C, W, Z	Class PH120	120min	Enhanced	
2.5	2, 3 & 4	ENHANCED 120	C, W, Z	Class PH120	120min	Enhanced	
4.0	2, 3 & 4	ENHANCED 120	C, W, Z	Class PH120	120min	Enhanced	

A copy of the certificate, confirming the full scope of approval including notes relating to the superscript references in the above table, may be viewed online by clicking on the product name in the associated entry on www.RedBookLive.com

Certificate No: 682e to BS 6387:2013 (Category CWZ), EN 60754-1:2014, EN 61034-2:2005+A1:2013, EN 50200:2015 (Class PH30), EN 60332-3-24:2009 and EN 60332-3-25:2009

NoBurn XPS

Nominal csa of conductor (mm^2)	Core Construction (excluding drain wire and earth)	BS 6387	EN 60754-1	EN 61034-2	EN 50200	LPCB Ref. No.
1.0	2,3 & 4	C, W, Z	<0.5% HCl	>60%	PH30	682e/01
1.5	2, 3 & 4	C, W, Z	<0.5% HCl	>60%	PH30	
2.5	2, 3 & 4	C, W, Z	<0.5% HCl	>60%	PH30	
4.0	2, 3 & 4	C, W, Z	<0.5% HCl	>60%	PH30	

A copy of the certificate, confirming the full scope of approval including notes relating to the superscript references in the above table, may be viewed online by clicking on the product name in the associated entry on www.RedBookLive.com

Certificate No: 682c to BS 6387:2013 (Category CWZ) EN 60754-1-1:2014 EN 61034-2:2005+A1:2013 EN 50200:2015 Annex E (30 mins) EN 50200:2015 (Class PH120) EN 60332-3-24:2009 EN 60332-3-25:2009

NoBurn XP

Nominal csa of conductor (mm^2)	Core Construction (excluding drain wire and earth)	BS 6387	EN 60754-1	EN 61034-2	EN 50200 Annex E	EN 50200	LPCB Ref. No.
1.0	2, 3 & 4	C, W, Z	<0.5% HCl	>60%	30 min	Class PH120	682c/01
1.5	2, 3 & 4	C, W, Z	<0.5% HCl	>60%	30min	Class PH120	
2.5	2, 3 & 4	C, W, Z	<0.5% HCl	>60%	30min	Class PH120	
4.0	2, 3 & 4	C, W, Z	<0.5% HCl	>60%	30min	Class PH120	

A copy of the certificate, confirming the full scope of approval including notes relating to the superscript references in the above table, may be viewed online by clicking on the product name in the associated entry on www.RedBookLive.com

Walsin Lihwa Corporation

No 256 & 397, Xinshu Road, Xinzhuang Dist., New Taipei City 24262, Taiwan ROC
Tel: +886-2 2202-9121
E-mail: yujia_huang@walsin.com • Website: https://www.walsin.com

Certificate No: 1609c to BS 7846:2015 (Category F2) EN 50200:2015 (Class PH120)

WS 400 Fire Resistant Cable

Nominal csa of conductor (mm^2)	Core Construction	BS 7846	EN 50200	LPCB Ref. No.
1.5	2, 3 & 4	F2	PH120	1609c/01
2.5	2, 3 & 4	F2	PH120	

Nominal csa of conductor (mm^2)	Core Construction	BS 7846	EN 50200	LPCB Ref. No.
4.0	2, 3 & 4	F2	PH120	
6.0	2, 3 & 4	F2	-	
10	2, 3 & 4	F2	-	
16	2, 3 & 4	F2	-	
25	2, 3 & 4	F2	-	
35	2, 3 & 4	F2	-	
50	2, 3 & 4	F2	-	
70	2, 3 & 4	F2	-	
95	2, 3 & 4	F2	-	
120	2, 3 & 4	F2	-	
150	2, 3 & 4	F2	-	
185	2, 3 & 4	F2	-	
240	2, 3 & 4	F2	-	
300	2, 3 & 4	F2	-	
400	2, 3 & 4	F2	-	

A copy of the certificate, confirming the full scope of approval including notes relating to the superscript references in the above table, may be viewed online by clicking on the product name in the associated entry on www.RedBookLive.com

Certificate No: 1609a to BS 6387:2013 (Category CWZ) EN 50200:2015 (Class PH120) EN 61034-2:2005+A1:2013 EN 60754-1:2014 EN 60754-2:2014 IEC 60331-21:1999 IEC 60332-3-24:2009

WS 300 Fire Resistant Conduit Cable

Nominal csa of conductor (mm^2)	Core Construction	BS 6387	IEC 60331-21	EN 50200	EN 60754-1	EN 60754-2	EN 61034-2	IEC 60332-3-24	LPCB Ref. No.
1.5	One	CWZ	90 mins + 15 mins	PH120	<0.5%HCl	Complies	>60%	-	1609a/01
2.5	One	CWZ	90 mins + 15 mins	PH120	<0.5%HCl	Complies	>60%	-	
4.0	One	CWZ	90 mins + 15 mins	PH120	<0.5%HCl	Complies	>60%	-	
6.0	One	CWZ	90 mins + 15 mins	PH120	<0.5%HCl	Complies	>60%	-	
10	One	CWZ	90 mins + 15 mins	PH120	<0.5%HCl	Complies	>60%	-	
16	One	CWZ	90 mins + 15 mins	PH120	<0.5%HCl	Complies	>60%	-	
25	One	CWZ	90 mins + 15 mins	PH120	<0.5%HCl	Complies	>60%	-	
35	One	CWZ	90 mins + 15 mins	PH120	<0.5%HCl	Complies	>60%	-	
50	One	CWZ	90 mins + 15 mins	PH120	<0.5%HCl	Complies	>60%	Complies	
70	One	C	90 mins + 15 mins	-	<0.5%HCl	Complies	>60%	Complies	
95	One	C	90 mins + 15 mins	-	<0.5%HCl	Complies	>60%	Complies	
120	One	C	90 mins + 15 mins	-	<0.5%HCl	Complies	>60%	Complies	
150	One	C	90 mins + 15 mins	-	<0.5%HCl	Complies	>60%	Complies	
185	One	C	90 mins + 15 mins	-	<0.5%HCl	Complies	>60%	Complies	
240	One	C	90 mins + 15 mins	-	<0.5%HCl	Complies	>60%	Complies	

Nominal csa of conductor (mm^2)	Core Construction	BS 6387	IEC 60331-21	EN 50200	EN 60754-1	EN 60754-2	EN 61034-2	IEC 60332-3-24	LPCB Ref. No.
300	One	C	90 mins + 15 mins	-	<0.5%HCl	Complies	>60%	Complies	
400	One	-	90 mins + 15 mins	-	<0.5%HCl	Complies	>60%	Complies	
500	One	-	90 mins + 15 mins	-	<0.5%HCl	Complies	>60%	Complies	
630	One	-	90 mins + 15 mins	-	<0.5%HCl	Complies	>60%	Complies	
800	One	-	90 mins + 15 mins	-	<0.5%HCl	Complies	>60%	Complies	
1000	One	-	90 mins + 15 mins	-	<0.5%HCl	Complies	>60%	Complies	

A copy of the certificate, confirming the full scope of approval including notes relating to the superscript references in the above table, may be viewed online by clicking on the product name in the associated entry on www.RedBookLive.com

Certificate No: 1609b to BS 6387:2013 (Category CWZ) EN 61034-2:2005+A2:2020 EN 60754-1:2014 EN 60754-2:2014 IEC 60331-21:1999

WS 100 Fire Resistant Conduit Wire

Nominal csa of conductor (mm^2)	Core Construction	BS 6387	IEC 60331-21	EN 60754-1	EN 60754-2	EN 61034-2	LPCB Ref. No.
1.5	One	CWZ	90 mins + 15 mins	<0.5% HCl	Complies	>60%	1609b/01
2.5	One	CWZ	90 mins + 15 mins	<0.5% HCl	Complies	>60%	
4.0	One	CWZ	90 mins + 15 mins	<0.5% HCl	Complies	>60%	
6.0	One	CWZ	90 mins + 15 mins	<0.5% HCl	Complies	>60%	
10	One	CWZ	90 mins + 15 mins	<0.5% HCl	Complies	>60%	
16	One	CWZ	90 mins + 15 mins	<0.5% HCl	Complies	>60%	
25	One	CWZ	90 mins + 15 mins	<0.5% HCl	Complies	>60%	
35	One	CWZ	90 mins + 15 mins	<0.5% HCl	Complies	>60%	
50	One	CWZ	90 mins + 15 mins	<0.5% HCl	Complies	>60%	
70	One	CWZ	90 mins + 15 mins	<0.5% HCl	Complies	>60%	
95	One	CWZ	90 mins + 15 mins	<0.5% HCl	Complies	>60%	
120	One	C	90 mins + 15 mins	<0.5% HCl	Complies	>60%	
150	One	C	90 mins + 15 mins	<0.5% HCl	Complies	>60%	
185	One	C	90 mins + 15 mins	<0.5% HCl	Complies	>60%	
240	One	C	90 mins + 15 mins	<0.5% HCl	Complies	>60%	
300	One	C	90 mins + 15 mins	<0.5% HCl	Complies	>60%	
400	One	-	90 mins + 15 mins	<0.5% HCl	Complies	>60%	
500	One	-	90 mins + 15 mins	<0.5% HCl	Complies	>60%	
630	One	-	90 mins + 15 mins	<0.5% HCl	Complies	>60%	

A copy of the certificate, confirming the full scope of approval including notes relating to the superscript references in the above table, may be viewed online by clicking on the product name in the associated entry on www.RedBookLive.com

Certificate No: 1609d to BS 7846:2015 Cat F2 & F120

WS 600 Fire Resistant Cable

Nominal csa of conductor (mm^2)	Core Construction (excluding drain wire and earth)	BS 7846	LPCB Ref. No.
4.0	2, 3 & 4	F2 & F120	1609d/01
6.0	2, 3 & 4	F2 & F120	
10	2, 3 & 4	F2 & F120	
16	2, 3 & 4	F2 & F120	
25	2, 3 & 4	F2 & F120	
35	2, 3 & 4	F2 & F120	
50	2, 3 & 4	F2 & F120	
70	2, 3 & 4	F2 & F120	
95	2, 3 & 4	F2 & F120	
120	2, 3 & 4	F2 & F120	
150	2, 3 & 4	F2 & F120	
185	2, 3 & 4	F2 & F120	
240	2, 3 & 4	F2 & F120	
300	2, 3 & 4	F2 & F120	
400	2, 3 & 4	F2 & F120	

A copy of the certificate, confirming the full scope of approval including notes relating to the superscript references in the above table, may be viewed online by clicking on the product name in the associated entry on www.RedBookLive.com

Wrexham Mineral Cables

Wynnstay Technology Park, Ruabon, Wrexham, Clwyd LL14 6EN, United Kingdom
Tel: +44 (0)1978 810789 • Fax: +44 (0)1978 821502
E-mail: sales@wrexhammineralcable.com • Website: www.wrexhammineralcables.com

Certificate No: 333a to EN 60702-1:2002+A1:2015 BS 6387:2013 CWZ EN 60754-1:2014 EN 50200:2015 PH120 BS 8434-2:2003+A2:2009 BS 5839-1:2013 (Enhanced) BS 8491:2008 BS 8519:2010 Category 3

Wrexham Mineral Insulated Cables

Nominal csa of conductor (mm^2)	Core Construction	EN 60702-1	BS 6387	EN 60754-1 (outer covering)	EN 50200	BS 8434-2	BS 5839-1 (Clause 26.2)	BS 8519 Clause 11	LPCB Ref. No.
1.5	One, 2, 3, 4, 7, 12 & 19	Complies	CWZ	<0.5 HCl	-	-	-	-	333a/01
2.5	One, 2, 3, 4, 7, 12 & 19	Complies	CWZ	<0.5 HCl	-	-	-	-	
4	One, 2, 3 & 4	Complies	CWZ	<0.5 HCl	-	-	-	-	
6	One, 2, 3 & 4	Complies	CWZ	<0.5 HCl	-	-	-	-	
10	One, 2, 3 & 4	Complies	CWZ	<0.5 HCl	-	-	-	-	
16	One, 2, 3 & 4	Complies	CWZ	<0.5 HCl	-	-	-	-	
25	One, 2, 3 & 4	Complies	CWZ	<0.5 HCl	-	-	-	Cat 3	
35	One	Complies	CWZ	<0.5 HCl	-	-	-	Cat 3	
50	One	Complies	CWZ	<0.5 HCl	-	-	-	Cat 3	
70	One	Complies	CWZ	<0.5 HCl	-	-	-	Cat 3	
95	One	Complies	CWZ	<0.5 HCl	-	-	-	Cat 3	
120	One	Complies	CWZ	<0.5 HCl	-	-	-	Cat 3	
150	One	Complies	CWZ	<0.5 HCl	-	-	-	Cat 3	
185	One	Complies	CWZ	<0.5 HCl	-	-	-	Cat 3	
240	One	Complies	CWZ	<0.5 HCl	-	-	-	Cat 3	
300	One	Complies	CWZ	<0.5 HCl	-	-	-	Cat 3	
400	One	Complies	CWZ	<0.5 HCl	-	-	-	Cat 3	
1.5 - 2.5	2, 3, 4, 7, 12 & 19	-	-	-	-	-	-	Cat 3	
4 - 25	2, 3 & 4	-	-	-	-	-	-	Cat 3	
1.0	2, 3, 4 & 7	Complies	CWZ	<0.5% HCl	PH 120	120min	Enhanced	-	
1.5	2, 3, 4 & 7	Complies	CWZ	<0.5% HCl	PH 120	120min	Enhanced	-	
2.5	2, 3, 4 & 7	Complies	CWZ	<0.5% HCl	PH 120	120min	Enhanced	-	

Nominal csa of conductor (mm^2)	Core Construction	EN 60702-1	BS 6387	EN 60754-1 (outer covering)	EN 50200	BS 8434-2	BS 5839-1 (Clause 26.2)	BS 8519 Clause 11	LPCB Ref. No.
4.0	2	Complies	CWZ	<0.5% HCl	PH 120	120min	Enhanced	-	
1.0	2	Complies	CWZ	<0.5% HCl	PH 120	120min	Enhanced	-	

A copy of the certificate, confirming the full scope of approval including notes relating to the superscript references in the above table, may be viewed online by clicking on the product name in the associated entry on www.RedBookLive.com

Yilu Wire and Cable Tchnology Co., Ltd

Da Songshu Ling, Xiekeng Village, Qingxi Town, Dongguan, Guangdong Province 523652, China
Tel: +86 1382 6492 897
E-mail: yilucable@gmail.com

Certificate No: 1383b-(cl-3) to BS 6387:2013 (Category CWZ) EN 50200:2015 (Class PH120) EN 50200:2015 Annex E (30 mins) EN 61034-2:2005+A2:2020 EN 60754-1:2014 EN 60332-1-2:2004

YILUFR FIRE RESISTANT CABLE

Nominal csa of conductor (mm^2)	Core Construction	BS 6387	EN 50200	EN 50200 Annex E	EN 60754-1	EN 61034-2	EN 60332-1-2	LPCB Ref. No.
1.5	2, 3 & 4	C, W, Z	PH120	30 min	<0.5%	>60%	Complies	1383b-(cl-3)
2.5	2, 3 & 4	C, W, Z	PH120	30 min	<0.5%	>60%	Complies	

A copy of the certificate, confirming the full scope of approval including notes relating to the superscript references in the above table, may be viewed online by clicking on the product name in the associated entry on www.RedBookLive.com

Zhejiang Tianjie Industrial Corp.

Linglong Economic Development Zone, Lin'an Hangzhou 311301, China
Tel: +86-0571-23656078
E-mail: info@tian-jie.com • Website: www.tian-jie.com

Certificate No: 1759a to BS 6387:2013 (Category CWZ)
EN 50200:2015 (PH120)
EN 61034-2:2005+A2:2020
EN 60754-1:2014

Fire Resistant Cable

Nominal csa of conductor (mm^2)	Core Construction	BS 6387	EN 50200	EN 61034-2	EN 60754-1	LPCB Ref. No.
1.0	2, 3 & 4	CWZ	PH120	>60%	>0.5% HCl	1759a/01
1.5	2, 3 & 4	CWZ	PH 120	>60%	<0.5% HCl	
2.5	2, 3 & 4	CWZ	PH 120	>60%	<0.5% HCl	

A copy of the certificate, confirming the full scope of approval including notes relating to the superscript references in the above table, may be viewed online by clicking on the product name in the associated entry on www.RedBookLive.com

Fire retardant cables are designed such that in the event of a fire they limit the generation and spread of fire and smoke.

This section lists fire retardant cables for use in fire safety, fire detection and fire alarm systems and other applications where specifications require cables with specific performance in the event of a fire.

The below standards are most commonly used to check the fire performances of the fire retardant cables.

- EN 60332 Tests on electric and optical fibre cables under fire conditions
- EN 61034-2 Measurement of smoke density of cables burning under defined conditions - Part 2: Test procedure and requirements (IEC 61034-2)
- IEC 60754-1 Tests on gases evolved during combustion of materials from cables - Part 1: Determination of the amount of halogen acid gas
- IEC 60754-2 Tests on gases evolved during combustion of materials from cables - Part 2: Determination of acidity (by pH measurement) and conductivity

MCI-Draka Cable Co. Ltd

2/7 Moo 2, Banbung-Bankhai Road, KM 57 Nongbua, Bankhai Rayong 22110, Thailand
Tel: +66 3896 1158 60
E-mail: hatthakrit.klinjan@prysmiangroup.com • Website: www.prysmiangroup.com

Certificate No: 1614a to EN 60332-1-2:2004+A11:2016
IEC 61034-2:2005+A2:2020
IEC 60754-1:2011

CU/LSHF

Product Name	Nominal csa of conductor (mm^2)	Core Construction	EN 60332-1-2	IEC 60754-1	IEC 61034-2	LPCB Ref. No.
CU/LSHF	50	1	Complies	<0.5% HCl	>60%	1614a/01

A copy of the certificate, confirming the full scope of approval including notes relating to the superscript references in the above table, may be viewed online by clicking on the product name in the associated entry on www.RedBookLive.com

Studer Cables AG

Herrenmattstr. 20, CH 4658 Däniken, Switzerland
Tel: +41 62 288 82 82 • Fax: +41 62 288 83 83
E-mail: sales-export@studercables.com • Website: www.studercables.com

Certificate No: 896h to EN/IEC 60332-3-24 EN/IEC 61034-2 EN/IEC60754-1 EN/IEC 60332-1-2

Product Name	LPCB Ref. No.
BETAflam FRT-MI90 SCSI Cable	896h/01
BETAflam FRT-MI90 SCDI Cable	896h/02

A copy of the certificate, confirming the full scope of approval including notes relating to the superscript references in the above table, may be viewed online by clicking on the certificate link in the associated entry on www.RedBookLive.com

This Section lists Power supply equipment which is either not intended to supply power to Fire Alarm Control Panels or which is standalone and has not been tested and approved as part of a Fire Alarm System.

Products listed in this section have been approved to:

- EN 54-4 *Power supply equipment;*
- ISO 7240-4 *Power supply equipment;*

Audit:
Regular product auditing and regular factory inspections are carried out by LPCB ensuring high manufacturing standards and continued compliance with the applicable product standard.

Kentec Electronics Limited

Units 25-27, Fawkes Avenue, Questor, Dartford, Kent DA1 1JQ, United Kingdom
Tel: +44 (0)1322 222121 • Fax: +44 (0)1322 291794
E-mail: sales@kentec.co.uk • Website: www.kentec.co.uk

Certificate No: 360a to EN 54-4:1997+A1:2002+A2:2006

Power Supply Equipment

Certificated Products		**LPCB Ref. No.**
K25800 03	10.25 A Power supply with maximum 8Ah Batteries Incorporating the following units: S408 Power supply module S584 Power supply LED indication PCB	360a/01
KD25800 03	Dual O/P 10.25 A Power supply with maximum 8Ah Batteries Incorporating the following units: S408 Power supply module S584 Power supply LED indication PCB S789 Dual output PCB	360a/02
K25800 15	10.25 A Power supply with maximum 45Ah Batteries Incorporating the following units: S408 Power supply module S584 Power supply LED indication PCB	360a/03
KD25800 15	Dual O/P 10.25 A Power supply with maximum 45Ah Batteries Incorporating the following units: S408 Power supply module S584 Power supply LED indication PCB S789 Dual output PCB	360a/04
K25800 M3	10.25 A Power supply with maximum 18Ah Batteries in M3 housing Incorporating the following units: S408 Power supply module S584 Power supply LED indication PCB	360a/05
KD25800 M3	Dual O/P 10.25 A Power supply with maximum 18Ah Batteries Incorporating the following units: S408 Power supply module S584 Power supply LED indication PCB S789 Dual output PCB	360a/06
K25800 D3	10.25 A Power supply with maximum 45Ah Batteries in D3 housing Incorporating the following units: S408 Power supply module S584 Power supply LED indication PCB	360a/07
KD25800 D3	Dual O/P 10.25 A Power supply with maximum 18Ah Batteries in D3 housing	360a/08

Certificated Products	LPCB Ref. No.
Incorporating the following units: S408 Power supply module S584 Power supply LED indication PCB S789 Dual output PCB	

A copy of the certificate, confirming the full scope of approval including notes relating to the superscript references in the above table, may be viewed online by clicking on the product name in the associated entry on www.RedBookLive.com