Honeywell

MORLEY IAS
FIRE SYSTEMS

Fire Alarm System

Product Catalog

valid from January 2017

1. DXc Series 3
Control Panel 4
Peripherals and Accessories 7

2. Intelligent Detectors 9

3. Modules 15
Manual Call Points 16
I/O Modules 19

4. Power Supplies 23

5. Alarm Devices 25
Addressable 26
Conventional 29

6. Detectors for Special Application 33
Air Duct Detectors 34
Beam Detectors 35
Aspirating Smoke Detectors 36

DXc Design and Order Diagram 42
Design Guide 43

Index 46

Control Panels 4
Peripherals and Accessories 7

DXC SERIES

Control Panels

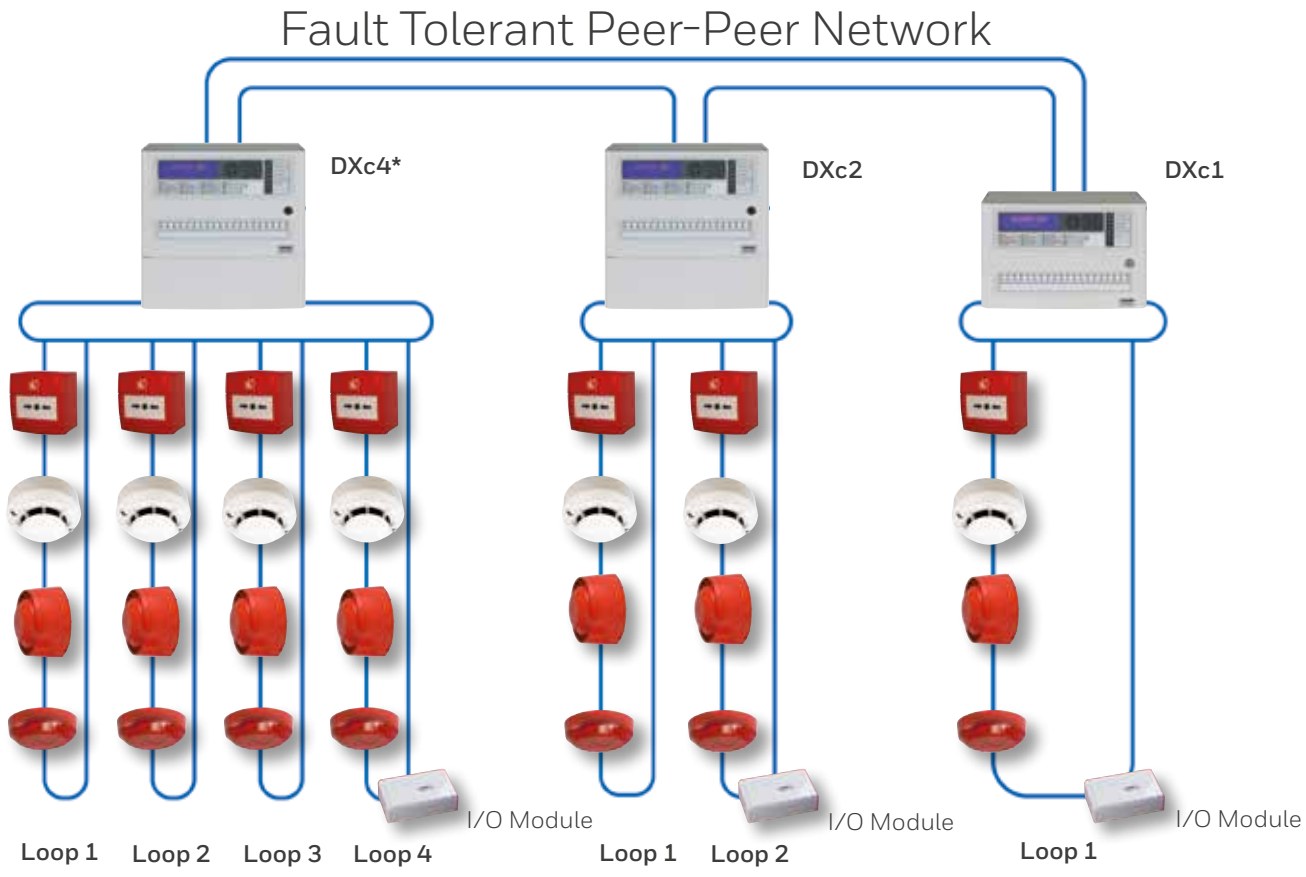
DXc Series

The Honeywell Morley-IAS DX Connection panel is ideally suitable for use in the protection of small to medium sized buildings. All in all, a compact, high performance, feature rich, economical fire alarm control panel designed to help for both the installer and the end user.

The DX Connexion range of fire alarm control panels have been developed to be the most time efficient fire panel on the market to install. Simply fix the control panel to the wall, connect the field wiring, and in as few as four button presses later you can have a compliant, working fire alarm system.

The panel's large graphical display provides a clear menu structure making the whole initial set-up process quick, clear and intuitive.

Programming the control panel couldn't be easier. Text can be quickly inserted from the panel's mobile phone style keypad to identify the exact location of each field device. Alternatively, with the use of the DX Connexion PC tools, text can be input easily. All panel features and system cause and effect can be programmed via either the panels large LCD display or by using the Windows configuration tool.



*DXc4 = DXc2 + 2 loop expansion card (Part No. 795/111)

DXC SERIES

Control Panels

714/001/117

DXc1, Single-loop control panel, Latin letters

DXc1 is a single-loop fire control panel. It can operate as stand-alone or networked system with other DXc series panels up to 16 loops.

TECHNICAL DATA	
OPERATING VOLTAGE	230 V, 50-60 Hz AC (+15%,-15% tolerance)
MAX PSU RATING	2 A / 24 V DC
SOUNDER CKT RATING	1 A
AUXILIARY OUTPUT	24 V DC / 250 mA
LOOP LOAD	500 mA
AMBIENT TEMPERATURE	0°C ... 40°C
HUMIDITY	5% ... 95% non-condensing
BATTERIES	2 x 12 V / 7 Ah
DIMENSION	H: 260 mm W: 390 mm D: 147 mm
WEIGHT	4 kg
HOUSING MATERIAL	Mild Steel (rear enclosure), ABS plastic front cover complying BS EN60950
COLOR	gray white, similar to RAL 9002
INGRESS PROTECTION	IP30
CABLE ENTRY	25 x 20 mm knock-outs at the top and 2 x 20 mm knock-outs at the bottom

Features

- Networking up to 16 loops
- 1 loop control panel (inbuilt loop card)
- 6x40 characters, blue liquid crystal display with backlight illumination
- Supports Austrian, Turkish, Polish, Romanian, Hungarian, Czech, Slovakian, Slovenian, Croatian, Lativa, Lithuania and Estonia languages.
- Option to upload company logo
- Configuration by Keypad and PC
- 160 Fire Zones
- RS-485 port for peripherals connection
- 2 programmable output sounder circuits (monitored)
- Fire, Fault and Auxiliary relay (each one)
- Loop-Battery calculator for reliable system design
- 7 day timer
- Onboard diagnostic
- Specification: EN54-2, EN54- 4
- LPCB approved

714/001/118

DXc1, Single-loop control panel, Cyrillic letters

As 714/001/117, but with cyrillic letters.

Features

- Supports Bulgarian and Russian languages

714/001/119

DXc1, Single-loop control panel, Greek letters

as 714/001/117, but with greek letters.

Features

- Supports Greek language

DXC SERIES

Control Panels

714/001/227

Features

- Networking up to 16 loops
- 2 loop control panel (inbuilt loop card)
- 6x40 characters, blue liquid crystal display with backlight illumination
- Supports Austrian, Turkish, Polish, Romanian, Hungarian, Czech, Slovakian, Slovenian, Croatian, Lativa, Lithuania and Estonia languages. Option to upload company logo
- Configuration by Keypad and PC
- 160 Fire Zones
- RS-485 port for peripherals connection
- 2 programmable output sounder circuits (monitored)
- Fire, Fault and Auxiliary relay (each one)
- Loop-Battery calculator for reliable system design
- 7 day timer
- Onboard diagnostic
- Specification: EN54-2, EN54- 4
- LPCB approved
- Meets CNBOP requirements

DXc2, Two-loop control panel, Latin letters

DXc2 is a two-loop fire control panel. It can operate as stand-alone or networked system with other DXc series panels up to 16 loops (8 x DXc2).

Additionally the system can be expanded up to 16 of DXc1 or 4 of DXc4 (DXc2 in combination with 2 loop expantion card) or a mix & match of different variants up to 16 loops networked solution.

TECHNICAL DATA	
OPERATING VOLTAGE	230 V, 50-60 Hz AC (+15%,-15% tolerance)
MAX PSU RATING	4 A / 24 V DC
SOUNDER CKT RATING	1 A
AUXILIARY OUTPUT	24 V DC / 250 mA
LOOP LOAD	500 mA
AMBIENT TEMPERATURE	0°C ... 40°C
HUMIDITY	5% ... 95% non-condensing
BATTERIES	2 x 12 V / 17 Ah
DIMENSION	H: 391.5 mm W: 390 mm D: 147 mm
WEIGHT	4.5 kg
HOUSING MATERIAL	Mild Steel (rear enclosure), ABS plastic front cover complying BS EN60950
COLOR	gray white, similar to RAL 9002
INGRESS PROTECTION	IP30
CABLE ENTRY	25 x 20 mm knock-outs at the top and 2 x 20 mm knock-outs at the bottom

714/001/228

Features

- Supports Bulgarian and Russian languages

DXc2, Two-loop control panel, Cyrillic letters

As 714/001/227, but with cyrillic letters.

714/001/229

Features

- Supports Greek language

DXc2, Two-loop control panel, Greek letters

as 714/001/227, but with greek letters.

DXC SERIES

Peripherals and Accessories

795/111

2 loop expantion card

Expansion 2 loop card for DXc2 panels. Plug and play card to expand the DXc2 panel capacity to 4 loops (396 sensors + 396 Modules).

795-099

Network card

The DXc Network card order to connect panels together to create a DXc panel Network. It is required one Network card on each networking panel. The Honeywell Morley-IAS network is a peer to peer network with shared zones and keyboard, were each panel is equal in the network. The Network card is fitted in the control panel.

795-132

System IO Card interface

The System IO card provides a VdS DXc panel compliance interface to communicate with the required Fire Brigade equipment as part of the VdS compliant Fire System. The System IO card is installed inside the DXc panel in the expansion board connector.

795-122

RS232 kit for peripherals connection

The RS232 port card provides the external connection of peripherals with a proprietary protocol to give and control external equipment. The RS232 card is fitted in the control panel.

795-118

User access key switch kit

Optional key switch kit for user access level 2 for the front panel door. The User key switch enable or disable user access level 2 without the need to insert the access level 2 code in the keypad. The switch fits the existing panel door hole and is connected to the panel display PCB.

020-891

USB isolated upload/download lead

The USB upload/download lead provides the interface between a PC and Honeywell Morley-IAS fire alarm control panel and is required to upload and download panel configuration from the DXc free configuration tool, to firmware panel updating or to download history logs from panel.

POL-200-TS

Intelligent loop diagnostic hand tool

Intelligent loop diagnostic hand tool helps in the start-up installation process and maintenance works of Fire Alarm Systems. The tool visualizes Information on the Screen with Color graphic symbols. It allows to perform a loop diagnostic before connect to the fire alarm panel and verifies loop device addresses for errors or possible double addressing. The tool also identifies where cable breaks or short-cuts appear on the wiring. It has a multimeter option to check loop cable as well.

Features

- Identities Installation an connection faults early
- Onboard Multimeter measures cable resistance/ impedance/isolation (Earth)
- USB port for updates and to copy files
- 6 h battery time with 1 h fast charge

INTELLIGENT DETECTORS

HM Series Detectors

The new series of Honeywell Morley-IAS HM detectors incorpoate latest hardware and software technology. A completely new optical chamber design is proven in extensive testing to be more efficient, less liable to false alarm due to dust and insects and less susceptible to fault in high air velocities or back pressure. Extensive hydrodynamic modeling has confirmed the greater efficiency of the new chamber and housing shape combination. Large-scale integration of the all-new electronics, through the fully automated surface mount PCB assembly, coupled with in-line testing through the manufacturing process, laser PCB cutting along with a completely new compound of plastic offers improved quality and reliability.

All HM detectors are enviromentally friendly and meet the WEEE and RoHS legislative requirements which minimize the end of life disposal costs.

HM/PSE

Features

- Genuine and fast response
- Advanced protocol and smoothing filter to suppress false alarm
- Rotary decade address switches
- Analog addressable communication
- Dual integrated LED for 360° visibility
- Specification: EN54-7
- LPCB approved
- Environment friendly - meets RoHS legislative requirements

ACCESSORIES	
MI/B501AP/IV	Detector and AV standard base
SMK400AP-IV	Deep base for MI/B501AP/IV

Optical smoke detector

The photoelectric smoke sensor delivers high responsiveness, reduced sensitivity to dust and false alarms resulting from ingress of insect and other debris. The plug-in unit uses sophisticated processing circuitry that incorporates smoothing filters to help eliminate transient environmental noise conditions that can be the cause of unwanted alarms. The devices are managed by embedded software running complex algorithms that further improve resilience to false alarms and improve detection speed.

The HM/PSE optical smoke detector has two integral red LEDs that provide 360° local visual indication of the device status.

TECHNICAL DATA	
OPERATING VOLTAGE	15 ... 32 V DC
MAXIMUM STANDBY CURRENT	200 uA @ 24 V DC (no LED blink)
	300 uA @ 24 V DC (LED blink enabled)
LED CURRENT	3.5 mA @ 24 V DC
REMOTE OUTPUT VOLTAGE	22.5 V DC @ 24 V DC input
REMOTE OUTPUT CURRENT	10.8 mA @ 24 V DC
TEMPERATURE RANGE	-30°C ... +70°C
HUMIDITY RANGE	10 ... 93% (non-condensing)
DIMENSION	Ø: 102 mm (with base MI/B501AP/IV) H: 52 mm (with base MI/B501AP/IV)
WEIGHT	97 g
MAXIMUM WIRE GUAGE	2.5 sqmm
MATERIAL	PC / ABS
COLOR	Ivory

HM/PTSE

Features

- Genuine and fast response
- Advanced protocol and smoothing filter to suppress false alarm
- Rotary decade address switches
- Analog addressable communication
- Dual integrated LED for 360° visibility
- Specification: EN54-7, EN54-5
- LPCB approved
- Environment friendly - meets RoHS legislative requirements
-

Sensitivity Settings

Level 1	3% Obs./m + Class A1R
Level 2	3% ... 6.1% variable Obs./m + Class A1R
Level 3	6.1% Obs./m + Class A1R
Level 4	6.1 ... 9.4% variable Obs./m + Class A1R
Level 5	9.4% Obs./m + Class A1R
Level 6	Class A1R

ACCESSORIES	
MI/B501AP/IV	Detector and AV standard base
SMK400AP-IV	Deep base for MI/B501AP/IV

Optical-thermal smoke detector

The optical-thermal sensor uses thermal assistance to the core photoelectric smoke detector to give enhanced false alarm immunity and faster response to a wide range of incipient fires. The plug-in unit combines two separate sensing elements that are managed by embedded software to act as a single unit.

The optical-thermal detector conforms to EN54-7, a 58°C fixed temperature and rate of rise thermal assistance conforming to EN54-5. The thermal detection function combines thermistor technology with a software corrected linear temperature response. In areas where the normal daytime activities may potentially create unwanted alarms, the detector can be programmed to operate in a “heat only” mode, automatically reverting to full photo-thermal operation during unoccupied periods.

The sensing elements of the HM/PTSE optical-thermal detector are panel controllable so the sensitivity thresholds of each element can be changed by the panel offering the ability to customise the device for the changing use of the area it is protecting. The detector has two integral red LEDs that provide 360° local visual indication of the device status.

TECHNICAL DATA	
OPERATING VOLTAGE	15 ... 32 V DC
MAXIMUM STANDBY CURRENT	200 uA @ 24 V DC (no LED blink)
	300 uA @ 24 V DC (LED blink enabled)
LED CURRENT	3.5 mA @ 24 V DC
REMOTE OUTPUT VOLTAGE	22.5 V DC @ 24 V DC input
REMOTE OUTPUT CURRENT	10.8 mA @ 24 V DC
TEMPERATURE RANGE	-30°C ... +70°C
HUMIDITY RANGE	10 ... 93% (non-condensing)
DIMENSION	Ø: 102 mm (with base MI/B501AP/IV) H: 61 mm (with base MI/B501AP/IV)
WEIGHT	99 g
MAXIMUM WIRE GUAGE	2.5 sqmm
MATERIAL	PC / ABS
COLOR	Ivory

* Do not install detectos in locations where normal ambient temperature exceeds 50° C.

INTELLIGENT DETECTORS

HM/RHSE

Rate of rise thermal detector

The detector uses the thermister and microprocessor technology to provide an alarm when the rate of rise in temperature exceeds 10°C/minute (typical) or if the temperature exceeds a threshold of 58°C response Class A1R). The detector has two integral red LEDs that provide 360° local visual indication of the device status.

Features

- Advanced protocol and smoothing filter to suppress false alarm
- Rotary decade address switches
- Analog addressable communication
- Dual integrated LED for 360° visibility
- Specification: EN54-5
- LPCB approved
- Environment friendly - meets RoHS legislative requirements

TECHNICAL DATA	
OPERATING VOLTAGE	15 ... 32 V DC
MAXIMUM STANDBY CURRENT	200 uA @ 24 V DC (no LED blink)
	300 uA @ 24 V DC (LED blink enabled)
LED CURRENT	3.5 mA @ 24 V DC
REMOTE OUTPUT VOLTAGE	22.5 V DC @ 24 V DC input
REMOTE OUTPUT CURRENT	10.8 mA @ 24 V DC
TEMPERATURE RANGE	-30°C ... +70°C *
HUMIDITY RANGE	10 ... 93% (non-condensing)
DIMENSION	Ø: 102 mm (with base MI/B501AP/IV) H: 61 mm (with base MI/B501AP/IV)
WEIGHT	88 g
MAXIMUM WIRE GUAGE	2.5 sqmm
MATERIAL	PC / ABS
COLOR	Ivory

ACCESSORIES	
MI/B501AP/IV	Detector and AV standard base
SMK400AP-IV	Deep base for MI/B501AP/IV

* Do not install detectos in locations where normal ambient temperature exceeds 50° C.

HM/FHSE

Fixed 58° thermal detector

As HM/RHSE, but with fixed temperature analog addressable sensors employing low mass thermistors and microprocessor technology for fast response and linear temperature sensing. It´s linear response allows the sensor to be used to sinal temperatures over 58°C (Class A1S).

INTELLIGENT DETECTORS

MI/B501AP/IV

Detector and AV standard base

Low profile standard intelligent detector and AV devices Ivory base. Screw connections for cablings up to 2,5 mm, tamper option and address identification label.

SMK400AP-IV

Deep base for MI/B501AP/IV

Surface mounting deep base for cable conduits up to 20 mm for MI/B501AP/IV in Ivory color.

781814

Remote indicator

Power saving remote indicator with red prism and 3 LEDs.

TECHNICAL DATA	
OPERATING VOLTAGE	18 V DC
CURRENT CONSUMPTION	approx. 9 mA
ALARM DISPLAY	3 red LEDs
AMBIENT TEMPERATURE	-20 °C ... 70 °C
STORAGE TEMPERATURE	-35 °C ... 85 °C
HUMIDITY RANGE	< 95 % (non-condensing)
TYPE OF PROTECTION	IP50
HOUSING	ABS plastic
COLOR	white, similar to RAL 9010
WEIGHT	approx. 60 g
DIMENSIONS	W: 85 mm H: 82 mm D: 27 mm

Features

- 3 alarm LEDs
- Power-saving compact indicator

Manual Call Points 16
I/O Modules 19

M5A-RP06FF-K013-41

Features

- Unique plug and play installation concept
- Resettable, unbreakable flexible element
- Rotary decade address switches
- Analogue addressable communications
- Semi-flush and surface mount option
- Integrated LED
- Integral loop isolation
- Specification: EN54-11, EN54-17
- LPCB Approved

Includes transparent cover PS200.
For surface mounting requires PS031W.

Manual Call Point isolated

The Honeywell Morley-IAS addressable Manual Call Points are designed to provide a manual alarm interface to Morley IAS´s fire alarm control panel. The flexible release plastic element provides a resettable option by using the provided key.

Instalation efficiency, flexibility and compliance with the latest standards are at the heart of the call point range. The unique 'plug n play' concept is designed specifically to reduce installation time by using a terminal block which can be wired during the initial installation cabling with a link to provide continuity for testing. During the commissioning phase, the links are removed and the terminal block is simply inserted into the connector at the back of the unit. No re-termination is required.

TECHNICAL DATA	
OPERATING VOLTAGE	15 ... 30 V DC
QUIESCENT CURRENT	260 uA @ 24 V DC (w/o isolator) 360 uA @ 24 V DC (with isolator)
ALARM CURRENT	6 mA @ 24 V DC
TEMPERATURE RANGE	-30°C ... 70°C
RELATIVE HUMIDITY	0 ... 95% (non-condensing)
DIMENSION	H: 89 mm W: 93 mm D: 27.5 mm (semi-flush) H: 89 mm W: 93 mm D: 59.5 mm (surface mounted) H: 97.5 mm W: 105 mm D: 75.5 (surface mounted & transparent cover)
WEIGHT	110 g (Semi-Flush), 160 g (Surface Mount)
INGRESS PROTECTION	IP24D
MAXIMUM WIRE GUAGE	2.5 sqmm
MATERIAL	ABS plastic
COLOR	red

MODULES

Manual Call Points

W5A-RP06SG-K013-41

Includes transparent cover PS200 and surface mounting enclosure IP67.

Manual Call Point isolated IP67

The IP67 Honeywell Morley-IAS addressable call point is used in humidity environments to provide a safe and reliable device in areas with dust or humidity. The IP67 addressable MCP is provided with IP67 surface mounting enclosure and transparent cover.

TECHNICAL DATA	
OPERATING VOLTAGE	15 ... 30 V DC
QUIESCENT CURRENT	260 uA @ 24 V DC (w/o isolator) 360 uA @ 24 V DC (with isolator)
ALARM CURRENT	6 mA @ 24 V DC
TEMPERATURE RANGE	-30°C ... 70°C
RELATIVE HUMIDITY	0 ... 95% (non-condensing)
DIMENSION	H: 97.5 mm W: 105 mm D: 75.5 (surface mounted & transparent cover)
WEIGHT	350g
INGRESS PROTECTION	IP67
MAXIMUM WIRE GUAGE	2.5 sqmm
MATERIAL	ABS plastic
COLOR	red

PS031W

Surface mounting base red for MCP

Surface mounting box for M5A addressable MCP red.

TECHNICAL DATA	
DIMENSION	H: 87 mm W: 93 mm D: 32 mm

MUS156

10 pieces

Spare EN54-11 glass pack for MCP

10 Spare breakable glass pack for Honeywell Morley-IAS addressable manual call points.

MODULES

Manual Call Points

PS200

Transparent cover for MCP

Spare transparent cover for Honeywell Morley-IAS addressable manual call points.

SC070

10 pieces

Spare keys pack for MCP

10 Spare keys pack for Honeywell Morley-IAS addressable manual call points. The MCP key is used to open, reset and test the Honeywell Morley-IAS addressable MCPs.

MODULES

I/O Modules

MI/DMMI

Single channel input module

MI/DMMI monitor module is used with Honeywell Morley-IAS intelligent fire alarm control panels to provide a single input circuit from external devices. The input is continuously monitored for normal, open circuit and alarm conditions. Changes to the status of the input circuits are communicated to the panel where the appropriate actions may be undertaken.

MI/DMMI requires a single address of the ninety-nine possible module addresses available on a loop. It responds to regular polling from the control panel indicated by a pulsing LED every successfull communication.

Features

- Single input
- DIN rail mounting option
- Rotary decade address switches
- Analogue addressable communications
- Tri-color LED status
- Plug-in connectors
- Built-in short circuit isolators
- Specifications: EN54-17, EN54-18
- LPCB approved

TECHNICAL DATA	
OPERATING VOLTAGE	15 ... 30 V DC
QUIESCENT CURRENT	310 uA @ 24 V DC (no communications) 510 uA @ 24 V DC (LED blink enabled)
TEMPERATURE RANGE	-20°C ... 60°C
RELATIVE HUMIDITY	0 ... 95% (non-condensing)
DIMENSION	H: 93 mm W: 94 mm D: 23 mm
WEIGHT	100 g
INGRESS PROTECTION	IP30 (IP50 in M200E-SMB)
MAXIMUM WIRE GUAGE	2.5 sqmm

ACCESSORIES	
M200SMB	Surface Mounting Box
M200E-DIN	Surface mounting clip for single module
SMB6-V0	Surface mount box for 6 modules

MI/DMM2I

Dual channel input module

As MI/DMMI, but with dual input circuit and requires two addresses of the ninety-nine possible.

TECHNICAL DATA	
QUIESCENT CURRENT	340 uA @ 24 V DC (no communications) 600 uA @ 24 V DC (LED blink enabled)
WEIGHT	110 g

MODULES

I/O Modules

MI/D2ICMO

Dual input single output module

MI/D2ICMO provides 2 monitored inputs to supervise the state of external equipment state relays and one single form C set of changeover contacts output to switch by command from the control. The dual input and single output module is used to monitor the state of alarm and fault of external equipment and to reset or activate it from panel. It also has built-in short circuit isolation capability.

Features

- Dual input single output
- DIN rail mounting option
- Rotary decade address switches
- Analogue addressable communications
- Tri-color LED status
- Plug-in connectors
- Built-in short circuit isolators
- Specifications: EN54-17, EN54-18
- LPCB approved

TECHNICAL DATA	
OPERATING VOLTAGE	15 ... 30 V DC
QUIESCENT CURRENT	340 uA @ 24 V DC (no communications) 660 uA @ 24 V DC (LED blink enabled)
TEMPERATURE RANGE	-20°C ... 60°C
RELATIVE HUMIDITY	0 ... 95% (non-condensing)
DIMENSION	H: 93 mm W: 94 mm D: 23 mm
WEIGHT	110 g
INGRESS PROTECTION	IP30 (IP50 in M200E-SMB)
MAXIMUM WIRE GUAGE	2.5 sqmm
RELAY SPECIFICATION	2 A @ 30 V DC, resistive Load

ACCESSORIES	
M200SMB	Surface Mounting Box
M200E-DIN	Surface mounting clip for single module
SMB6-V0	Surface mount box for 6 modules

MI/DCMO

Single channel output module

MI/DCMO optionally supervises the wiring to the load devices and, upon command from the control panel, switches an external power supply to operate these devices. It also has built-in short circuit isolation capability. In normal supervised mode, the device switches out the load supervision and switches in the external power supply through a double pole relay.

The external power supply is monitored and raises an unlatched fault condition if the voltage falls below the fixed threshold. In the unsupervised mode, the device provides neither load nor power supply supervision and can be used to switch a single form C set of changerover contacts

Features

- Single output - relay or sounder mode
- DIN rail mounting option
- Rotary decade address switches
- Analogue addressable communications
- Tri-color LED status
- Plug-in connectors
- Built-in short circuit isolators
- Specifications: EN54-17, EN54-18
- LPCB approved

TECHNICAL DATA	
OPERATING VOLTAGE	15 ... 30 V DC
QUIESCENT CURRENT	310 uA @ 24 V DC (no communications) 510 uA @ 24 V DC (LED blink enabled)
TEMPERATURE RANGE	-20°C ... 60°C
RELATIVE HUMIDITY	0 ... 95% (non-condensing)
DIMENSION	H: 93 mm W: 94 mm D: 23 mm
WEIGHT	62 g
INGRESS PROTECTION	IP30 (IP50 in M200E-SMB)
MAXIMUM WIRE GUAGE	2.5 sqmm
RELAY SPECIFICATION	unsupervised 2 A @ 30 V DC, resistive load

ACCESSORIES	
M200SMB	Surface Mounting Box
M200E-DIN	Surface mounting clip for single module
SMB6-V0	Surface mount box for 6 modules

MODULES

I/O Modules

MI/DCZRM

Conventional zone monitor module

MI/DCZRM addressable zone monitor module allows a zone of non-addressable devices to communicate with Honeywell Morley-IAS protocol analogue addressable system. As a result existing non-addressable zones can be integrated into a Honeywell Morley-IAS protocol system. The module monitors a zone of two-wire non-addresable devices. A fault signal will be transmitted to the panel in case of an open circuit or short circuit on the non-addressable zone wiring or when the external fault input is pulled low (can be used for power supply monitoring). A flashing LED indicates that the module is in communication with the control panel. The LED latches steady on alarm (subject to current limitations).

Features

- Connection of a zone of non-addressable detectors to an analogue addressable fire system
- Built in isolation allowing system installation in stages without loss of protection
- Rotary decade address switches
- Monitors open circuit and short circuit faults
- TRI-Color Status LED
- Zone powered from addressable loop wiring or external 24V PSU
- Remote reset of non-addressable zone
- Compatible with most non-addressable detectors, IS non-addresable detectors
- Monitoring of external power supply
- External fault input
- Specifications: EN54-17, EN54-18
- LPCB approved
- DIN rail mountable, consistent with all other modules
- Support for an extended power supply range as low as 18Vdc 60mA with an External PSU

TECHNICAL DATA	
OPERATING VOLTAGE	18 ... 28.5 V DC
QUIESCENT CURRENT	375 uA @ 24 V DC
TEMPERATURE RANGE	-20°C ... 60°C
RELATIVE HUMIDITY	5% ... 95% (non-condensing)
DIMENSION	H: 93 mm W: 83 mm D: 23 mm
WEIGHT	110 g
MAX STANDBY CURRENT	288 uA (conventional zone connected to external supply)
END OF LINE RESISTOR	3.9 K

ACCESSORIES	
M200SMB	Surface Mounting Box
M200E-DIN	Surface mounting clip for single module
SMB6-V0	Surface mount box for 6 modules

MI/D240CMO

Single 240 V AC relay module

The MI/D240CMO addressable output module provides a single double pole contact output for 240 V AC (nominal 220 V AC) to switches the power to external equipment. The MI/D240CMO has built-in lop short circuit isolator and surface box for wall mount.

Includes surface mounting box.

TECHNICAL DATA	
OPERATING VOLTAGE	15 ... 30 V DC
CURRENT COMSUMPTION	275 uA @ 24 V DC (no communications) 445 uA @ 24 V DC (one comms. every 5 sec. with LED blink enabled)
OPERATING TEMPERATURE	-20°C ... 60°C
RELATIVE HUMIDITY	0 ... 95% (non-condensing)
DIMENSION	H: 40 mm W: 139 mm D: 134 mm
WEIGHT	195 g
RELAY SPECIFICATION	5 A @ 30 V DC, resistive Load 5 A @ 240 V AC, resistive Load

MODULES

I/O Modules

MI/DISO

Short-circuit isolator module

MI/DISO is intended to be spaced between groups of devices on a communication line to protect the line if a short circuit fault occurs. It automatically opens when the voltage in the communication line falls below a fixed threshold. If a short circuit fault occurs, the two isolattors located around the device group where the fault occured will sense the line voltage drop, open their switches and remove the devices from the rest of the line. When the line voltage rises above the fixed threshold, the isolator module will detect the removal of the fault condition and automatically restore power to the isolated group of devices.

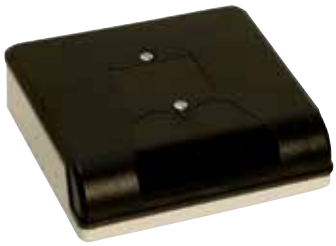
Features

- Short-circuit isolation
- DIN rail mounting option
- Tri-color LED status
- Plug-in connectors
- Specifications: EN54-17
- LPCB approved

ACCESSORIES	
M200SMB	Surface Mounting Box
M200E-DIN	Surface mounting clip for single module
SMB6-V0	Surface mount box for 6 modules

TECHNICAL DATA	
OPERATING VOLTAGE	15 ... 30 V DC
QUIESCENT CURRENT	200 uA @ 24 V DC
TEMPERATURE RANGE	-20°C ... 60°C
RELATIVE HUMIDITY	0 ... 95% (non-condensing)
DIMENSION	H: 93 mm W: 94 mm D: 23 mm
WEIGHT	62 g
INGRESS PROTECTION	IP30 (IP50 in M200E-SMB)
MAXIMUM WIRE GUAGE	2.5 sqmm
FAULT DETECTION DELAY	100 ... 400 ms

M200SMB



Surface mounting box for one module

Surface enclosure for one addressable Honeywell Morley-IAS series module with semi-transparent cover to see module label, address and LED.

TECHNICAL DATA	
DIMENSION	H: 143mm W: 130 mm D: 49 mm

M200E-DIN

DIN rail mounting bracket

M200E-DIN provides a DIN rail mounting option for one module of addressable Honeywell Morley-IAS series modules.

TECHNICAL DATA	
DIMENSION	H: 139 mm W: 94 mm D: 23 mm

SMB6-V0

Surface mount box for 6 modules

Surface enclosure for 6 addressable Honeywell Morley-IAS series modules with semi-transparent cover to see module address and LEDs.

TECHNICAL DATA	
DIMENSION	H: 180 mm W: 245 mm D: 100 mm

POWER SUPPLIES

HLSPS25

Power supply unit 24 V DC, 3 A

EN54 power supply unit 24 V DC for 3 A output (2 x 1,1A), earth monitoring and fault relay input to optional disable the battery charger when the fire panel is in alarm (providing 300 mA extra current).

TECHNICAL DATA	
WEIGHT	5.5 kg
DIMENSION	H: 408 mm W: 377 mm D: 92 mm
FOR BATTERY TYPE	2 x 7.2 Ah/12 V

HLSPS50

Power supply unit 24 V DC, 5 A

EN54 power supply unit 24 V DC for 5 A output (2 x 2,2A), earth monitoring and fault relay input to optional disable the battery charger when the fire panel is in alarm (providing 600 mA extra current).

TECHNICAL DATA	
WEIGHT	5.7 kg
DIMENSION	H: 408 mm W: 377 mm D: 92 mm
FOR BATTERY TYPE	2 x 17 Ah/12 V

Addressable 26
Conventional 29

WSO-PR-I05

Addressable wall mounted isolated sounder, red

Honeywell Morley-IAS wall mounted sounder is installed in exactly the same manner as an intelligent fire detector. Common installation base (Part No. MI/B501AP/IV), which accepts any product within Honeywell Morley-IAS audiable-visual product family, is installed at first fix. This common base is fitted with a shorting spring, enabling loop continuity to be maintained without having to install any Honeywell Morley-IAS audiable-visual product. It also removes the need to separately test wiring. As the sounder itselfs does not have to be installed until final commissiong, there is no risk of damage during first fix. By utilising the latest developments in piezoelectric transducer the sounder is highly efficient. Current consumption is minimised, enabling the maximum number of devices to be installed on a loop, without compromising on sound levels.

Features

- 32 built-in tones
- Rotary decade address switches
- Lower power requirements
- Optional IP65 rating
- Optional built-in isolator
- Anti-Tamper feature
- Specification EN54-3, EN54-17
- LPCB approved

ACCESSORIES	
MI/B501AP/IV	Detector and AV standard base
BRR	Deep profile base red with MI/B501AP/IV
WRR	Deep waterproof base, red

TECHNICAL DATA	
OPERATING VOLTAGE	15 ... 32 V DC (without isolator) 15 ... 28 V DC (with isolator)
QUIESCENT CURRENT	120 uA (non-isolation) 225 uA (isolation)
ALARM CURRENT	11.4 mA (high volume tone 21 @ 24 V)
MAX SOUND OUTPUT	97 dB(A) +/-3dB @ 1 m
TEMPERATURE RANGE	-25°C ... +70°C
RELATIVE HUMIDITY	< 95 % (non-condensing)
DIMENSION	Ø: 121 mm H: 64 mm
WEIGHT	238 g
INGRESS PROTECTION	IP24 (with low profile base) IP44 (with surface mount base) IP65 (waterproof base)
MAXIMUM WIRE GUAGE	1.5 ... 2.5 mm2 max
COLOR	red

WSS-PR-I05

Addressable wall mounted isolated sounder strobe, red

The wall mounted sounder/strobe is installed in exactly the same manner as an intelligent fire detector. A separate, common installation base (Part No. Mi/B50IAP/IV) which accepts any product within Honeywell Morley-IAS audiable-visual product family, is installed at first fix. This common base is fitted with a shorting spring, anabling loop continuity to be maintained without having to install any audiable-visual product. It also removes the need to separately test the wiring. As the strobe itself does not have to be installed until final commissioning, there is no risk of damage during first fix. By utilising the latest developments in piezoelectric transducer and high output LED array technology, the sounder/strobe is highly efficient. Current consumption is minimised, enabling the maximum number of devices to be installed on a loop, without compromising on sound and light output levels.

Features

- 32 built-in tones
- Rotary decade address switches
- Lower power requirements
- Optional IP65 rating
- Optional built-in isolator
- Anti-Tamper feature
- Specification EN54-3, EN54-17
- LPCB approved

ACCESSORIES	
MI/B501AP/IV	Detector and AV standard base
BRR	Deep profile base red with MI/B501AP/IV
WRR	Deep waterproof base, red

These are not approved to EN54-23 (Visual Alarm Device) and must not be used as visual alarm device to provide a primary warning of fire.

TECHNICAL DATA	
OPERATING VOLTAGE	15 ... 29 V DC (without isolator) 15 ... 29 V DC (with isolator)
QUIESCENT CURRENT	120 uA (non-isolation) 225 uA (isolation)
ALARM CURRENT	14.5 mA (high volume tone 11 @ 15 V)
MAX SOUND OUTPUT	97dB(A) +/-3dB @ 1 m
TEMPERATURE RANGE	-25°C ... +70°C
RELATIVE HUMIDITY	< 95 % (non-condensing)
DIMENSION	Ø: 121 mm H: 64 mm
WEIGHT	238 g
INGRESS PROTECTION	IP21C (with low profile base) IP44 (with surface mount base) IP65 (waterproof base)
MAXIMUM WIRE GUAGE	1.5 ... 2.5 mm2 max
COLOR	red (lens and housing)
STROBE FLASH RATE	1 Hz

WST-PR-I05

Addressable wall mounted isolated strobe, red

The wall mounted strobe is installed in exactly the same manner as an intelligent fire detector. A separate, common installation base (Part No. MI/B50IAP/IV) which accepts any product within Honeywell Morley-IAS audiable-visual product family, is installed at first fix. This common base is fitted with a shorting spring, enabling loop continuity to be mainteined without having to install any audiable-visual product. It also removes the need to separately test the wiring. As the strobe itself does not have to be installed until final commissioning, there is no risk of damage during first fix.

Features

- High output LED array technology
- Rotary decade address switches
- Lower power requirements
- Optional IP65 rating
- Optional built-in isolator
- Specification EN54-17
- LPCB approved

ACCESSORIES	
MI/B501AP/IV	Detector and AV standard base
BRR	Deep profile base red with MI/B501AP/IV
WRR	WRR Deep waterproof base, red

These are not approved to EN54-23 (Visual Alarm Device) and must not be used as visual alarm device to provide a primary warning of fire.

TECHNICAL DATA	
OPERATING VOLTAGE	15 ... 29 V DC (without isolator) 15 ... 29 V DC (with isolator)
QUIESCENT CURRENT	120 uA (without isolator) 225 uA (with isolator)
ALARM CURRENT	5.21 mA (without isolator) 5.4 mA (with isolator)
TEMPERATURE RANGE	-25°C ... +70°C
RELATIVE HUMIDITY	< 95 % (non-condensing)
DIMENSION	Ø: 121 mm H: 51 mm
WEIGHT	238 g
INGRESS PROTECTION	IP21C (with low profile base) IP44 (with surface mount base) IP65 (waterproof base)
MAXIMUM WIRE GUAGE	1.5 ... 2.5 mm2 max
COLOR	red (lens and housing)
STROBE FLASH RATE	1 Hz

BRR

Deep profile base, red

Deep surface mounting base red for Honeywell Morley-IAS addressable sounders with MI/B501AP/IV white base.

TECHNICAL DATA	
DIMENSION	Ø: 121 mm H: 55 mm

WRR

Deep waterproof base, red

Deep surface mounting base IP65 red for Honeywell Morley-IAS addressable sounders with MI/B501AP/IV white base.

TECHNICAL DATA	
DIMENSION	Ø: 121 mm H: 55 mm

CWST-RW-S5

EN Strobe with white strobe, EN54-23 C & W class

Optical signaling device compliant with EN 54-23 for wall and ceiling mounting with white strobe color and flat base. The signaling device is suitable for square signal ranges W-2.4-9.0 and cylindrical signal ranges C-3-9.5 / C-6-9.5 / C-9-9.5.

It features high output LEDs, advanced optics and an innovative lens design for outstanding light coverage at low current draw.

Features

- C & W category
- Synchronous flash trigger
- Up to 9.0 m room width for wall mounting
- Up to 9.4 m room diameter for ceiling mounting
- Specification: EN54-23

TECHNICAL DATA	
OPERATING VOLTAGE	9 ... 29 V DC
CURRENT	26 mA @ 29 V DC
FLASHING FREQUENCY	0.5 Hz
DIMENSION	Ø: 100 mm H: 72 mm (low profile base) Ø: 100 mm H: 97 mm (deep base)
TEMPERATURE RANGE	-25°C ... +70°C
RELATIVE HUMIDITY	< 95 % (non-condensing)
APPROVED	EN54-23 C & W categories
WEIGHT	164 g (low profile base) 171 g (deep base)

ACCESSORIES	
CWR	Deep base, red

Includes surface mounting base

CWST-RW-W5

EN Strobe with white strobe, EN54-23 C & W class, IP65

As CWST-RW-S5, but with IP65 ingress rate protection enclosure.

CWSO-RR-S1

Features

- Suitable for 12 V and 24 V DC service voltage
- Synchronous sound trigger
- Volume adjustable to 2 levels at the device
- Specification: EN54-3

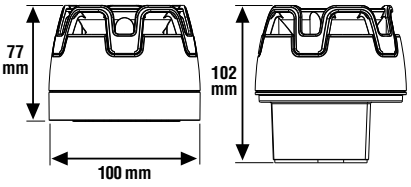
ACCESSORIES	
CWR	Deep base, red

Includes surface mounting base

EN Sounder, red

The acoustic alarm signaling device is EN 54-3 compliant, in red housing, and offers a selection of 32 signal tones including the DIN tone and other country-specific tones. All tones comply with EN 54-3. Configuration takes place via a 6-pin DIP switch. Up to two different signal tones may be activated. Signaling device with flat base, suitable for wall and ceiling mounting.

TECHNICAL DATA	
OPERATING VOLTAGE	9 … 29 V DC
CURRENT	31 mA @ 29 V DC (tone 8)
MAX. SOUND OUTPUT	107 dB (A) @ 1 m (tone 23)
NUMBER OF TONES	32, including a bell tone
DIMENSION	Ø: 100 mm H: 77 mm (low profile base) Ø: 100 mm H: 102 mm (deep base)
WEIGHT	190 g (low profile base) 197 g (deep base)
APPROVED	EN54-3



CWSO-RR-W1

EN Sounder, red, IP65

As CWSO-RR-S1, but with IP65 ingress rate protection enclosure.

CWSS-RW-S5

EN Sounder/strobe with white strobe EN54-23, C & W class

Combined acoustic and optical alarm signaling device is EN 54-3 & EN 54-23 compliant, in red housing, and offers a selection of 32 signal tones including the DIN tone and other country-specific tones. All tones comply with EN 54-3. Tone configuration takes place via a 6-pin DIP switch. Up to two different signal tones may be activated. The optical signaling device with white strobe is suitable in accordance with EN 54-23 for square signal ranges W-2.4-8.9 and cylindrical signal ranges C-3-10 / C-6-10. Signaling device with flat base, suitable for wall and ceiling mounting.

Features

- Synchronous sound and flash trigger
- Volume adjustable to 2 levels at the device
- C & W category
- Signal range up to 8.9 m room width for wall mounting
- Signal range up to 10.0 m room diameter for ceiling mounting
- Specification: EN-54-3, EN54-23

TECHNICAL DATA	
OPERATING VOLTAGE	12 ... 29 V DC
CURRENT	49 mA @ 29 V DC (Class W, tone 7) 22 mA @ 29 VDC (Class O, tone 7)
MAX. SOUND OUTPUT	107 dB (A) @ 1 m (tone 23)
NUMBER OF TONES	32, including a bell tone
DIMENSION	Ø: 100 mm H: 98 mm (low profile base) Ø: 100 mm H: 122 mm (deep base)
WEIGHT	248 g (Class W) / 236 g (Class O) (low profile base) 255 g (Class W) / 242 g (Class O) (deep base)
APPROVED	EN54-23 C,W & O categories, EN54-3
FLASHING FREQUENCY	0.5 Hz

ACCESSORIES	
CWR	Deep base, red

Includes surface mounting base

CWSS-RW-W5

EN Sounder/strobe with white strobe EN54-23, C & W class, IP65

As CWSS-RW-S5, but with IP65 ingress rate protection enclosure.

ALARM DEVICES

Conventional

CSR

Spare low profile red base pack

Low profile base red for conventional EN Scape series sounder and strobe.

Packing Unit: 5 pcs

CWR

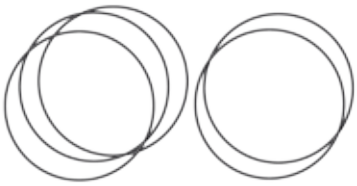
Base deep IP65, red

Base, red, for ENscape signaling device with IP 65 protection rating and sm cable entry.

TECHNICAL DATA	
Type of protection	IP65 (with accessories)
MATERIAL	PC/ABS, UL94-V0
COLOR	red, similar to RAL 3020
WEIGHT	approx. 47 g
DIMENSION	Ø: 100 mm H: 53 mm

Packing Unit: 5 pcs

PS188



O-ring for deep base

Replacement O-ring for use with deep CWR or CWW base.

Packing Unit: 5 pcs

PS189

Seal for deep base

Seal for use with deep CWR or CWW base for IP 65 protection rating.

Packing Unit: 5 pcs

Air Duct Detectors 34
Beam Detectors 35
Aspirating Smoke Detectors 36

DETECTORS FOR SPECIAL APPLICATIONS

Air duct detectors

DNRE

Duct detector housing

The Honeywell Morley-IAS Series duct smoke detectors sense smoke in the most challenging conditions, operating in airflow speeds of 0.5m/s to 20m/ sec, temperatures of 0°C to 70°C, and a humidity range of 0 to 95 percent (non-condensing).

An improved cover design isolates the detector head from the low-flow feature for simple maintenance. The unit incorporates cover tamper feature to indicare a trouble signal for a removed or improperly installed sensor cover. The duct detector housing provides a 20mm conduit knockout and ample space to facilitate easy wiring and mounting of relay module.

Features

- Photolelectric, integrated low-flow technology
- Includes detector base
- Air velocity rating from 0.5m/s to 20m/sec
- Versatile mounting options: square or rectangular configuration
- Broad ranges for operating temperature 0°C to 70°C and humidity (0% to 95% non-condensing)
- Patented (18mm diameter) sampling tube installs from front or back of the detector with no tools required , with lengths from 30 to 325,5mm
- Cover tamper signal
- 20mm conduit knockout for easy wiring access
- Available space within housing to accommodate mounting of relay module
- Clear cover for convenient visual inspection

TECHNICAL DATA	
POWER SUPPLY VOLTAGE	8.5 ... 35 V DC
INPUT CAPACITANCE	0.1 uF max.
RESET VOLTAGE	2.5 V DC min
PEAK STANDBY CURRENT	120 uA
DIMENSION	H: 37 mm W: 12.7 mm D: 6.36 mm (rectangular) H: 19.7 mm W: 22.9 mm D: 6.36 mm (square)
WEIGHT	0.82 kg
OPERATING TEMPERATURE	0°C ...70°C
STORAGE TEMPERATURE	0°C ... 70°C
OPERATING HUMIDITY	0% ... 95% (non-condensing)
AIR DUCT VELOCITY	0.5 ... 20 m/sec

DST1

Inlet sampling tube, 30 cm

DNRE inlet 30 cm sampling tube for air duct detection with sample holes and end cap.

DST1.5

Inlet sampling tube, 45.7 cm

DNRE inlet 45,7 cm sampling tube for air duct detection with sample holes and end cap.

DST3

Inlet sampling tube, 91.6 cm

DNRE inlet 91,6 cm sampling tube for air duct detection with sample holes and end cap.

DST5

Inlet sampling tube, 152 cm

DNRE inlet 152 cm sampling tube for air duct detection with sample holes and end cap.

DST10

Inlet sampling tube, 325.5 cm

DNRE inlet 325.5 cm sampling tube for air duct detection with sample holes and end cap.

DETECTORS FOR SPECIAL APPLICATIONS

Beam Detectors

MI-LPB2-S2I

Features

- Addressable loop powered beam detector
- Rotary decade address switches
- 10-100 m range (from 70 to 100 m requires 6500-LRK)
- 4 fixed sensitivity levels
- 2 automatic variable sensitivity modes
- Numerical indicators to aid beam alignment
- Standby, Fault and Alarm LED indicator
- Specifications: EN54-12, EN54-17
- BRE approved

ACCESSORIES	
6500-LRK	Long Range reflector kit (70-100m range)

Addressable beam detector

The MI-LPB2-S2I is an addressable reflector-type linear optical beam smoke detector, designed to operate as a component of an intelligent fire alarm system. It operates primarily on the principle of light obscuration utilising an Infra-Red beam. Optical beam smoke detectors are particularly appropriate for protecting buildings with large open space such as warenhouse, atriums etc.

The MI-LPB2-S2I detector is a combined transmitter/receiver unit that can be directly connected to an analogue loop circuit. The Infra-Red transmitter generates a beam of light towards a hogh efficiency reflector. The reflector returns the beam to the receiver where an analysis of the received signal is made. The change in the strength of the received signal is used to determine the alarm condition.

TECHNICAL DATA	
Operating voltage	15 ... 32 V DC
RATED VOLTAGE	24 V DC
TYPICAL STANDBY CURRENT	2mA @ 24Vdc
MAX. ALARM CURRENT	8.5mA
MAX. ALIGNMENT CURRENT	20 mA
TEMPERATURE RANGE	-30°C to +55°C
HUMIDITY RANGE	> 95% (non-condensing)
DIMENSION	H: 254 mm W: 190 mm D: 84 mm (Tx/Rx Unit) H: 230 mm W: 200mm D: 84 mm (single, 10-70m range)
WEIGHT	1.77 kg
MAX. WIRE GUAGE	2.5 sqmm
MATERIAL	Bayblend FR110 (trim), Lexan (lens cover), Noryl (back-box)
COLOR	white (Trim), black (back-box)

6500-LRK

Long-range reflector (70m-100m)

The BEAM-LRK kit contains 3 reflectors (200mm x 230mm).

In combination with the short range reflector supplied with the beam, the 4 reflectors mounted in square form one big reflector surface which extends the beam range over 70 m, up to a maximum distance of 100 m.

DETECTORS FOR SPECIAL APPLICATIONS

Aspirating Smoke Detectors

FAAST-LT Loop based ASD

Features

- Multiple event logging up to 2240 events
- Rotary decade address switches
- Ultrasonic airflow sensing
- PipeIQ™LT software provides intuitive system layout and configuration all in one package
- User friendly air flow pendulum graph for verification of pipe network functionality
- Protected electronics from air flow and accidental damage during installation or maintenance
- Easily replaceable and reusable filter without affecting the rest of the device
- Designed for efficient wiring and installation: cable gland holes, easy access to the wiring area and no special tools required.
- Easy access to parts requiring routine maintenance: filter(s) or sensors(s).
- Single & Dual channel versions with independent channels including fan, sensor and flow monitoring
- IP65 enclosure
- Specifications: EN54-20, EN54-17
- BRE approved

The FAAST LT Aspirating Smoke Detector is designed with the installer and end user in mind. It serves the wide variety of Class C applications where maintenance is difficult, other smoke detection methods are inappropriate or prone to fail due to harsh environments or areas where aesthetics matters. It is also suitable for smaller mission critical applications where very early warning - Class A or B detection is required.

FAAST LT combines proven aspiration detection technologies to deliver reliable smoke detection and efficient installation and maintenance. The device includes high sensitivity laser fire detection, ultrasonic flow sensors, and internal design features to protect vulnerable components from environmental and human threats.

The device is fast to install and easy to commission thanks to PIPE IQ LT pipe design and configuration software which is included as standard. FAAST LT loop based devices are available as single channel and dual channel devices, offering flexibility for different detection strategies. A range of customizable settings are geared towards maximizing device performance and meeting different application needs.

Loop capability allows standard device integration, maintenance and support consistent with all other Honeywell Morley-IAS loop devices..

The detector provides alarm and fault relays with auxiliary events relay as an option. These can be set as latched or non-latched. To accommodate local installation standards or environments, flow and general fault delays can also be set.

TECHNICAL DATA	
EXTERNAL SUPPLY VOLTAGE	18.5 ... 31.5 V DC
REMOTE RESET TIME	1 sec.
POWER RESET:	0.5 sec.
AVG. OPERATING CURRENT	200 mA @ 24 V DC (excl. sounders)
MAX. AVG. OPERATING CURRENT	500 mA @ 24 V DC (excl. sounders)
OPERATING TEMPERATURE	-10°C ... 55°C
RELATIVE HUMIDITY	10 ... 93% (non-condensing)
IP RATING	IP65
SENSITIVITY	0.06% ... 6% obs/m
DIMENSION	H: 403 mm W: 356 mm D: 135 mm
WEIGHT	6.5 kg

MI-FL2011EI

FAAST-LT one channel loop based aspiration sampling detector

FAAST LT Aspirating Smoke Detector with one sensor and one channel to connect to the Honeywell Morley-IAS intelligent loop. Requires external power 24 V DC from EN54-4 PSU.

MI-FL2022EI

FAAST-LT two channel loop based aspiration sampling detector

FAAST LT Aspirating Smoke Detector with two sensor and two channel to connect to the Honeywell Morley-IAS intelligent loop. Requires external power 24 V DC from EN54-4 PSU.

DETECTORS FOR SPECIAL APPLICATIONS

Aspirating Smoke Detectors - Accessories

761520.10

Pipe (ABS), diameter 25 mm

Length = 30 m (each 3 m)

TECHNICAL DATA	
AMBIENT TEMPERATURE	-40 °C ... 70 °C

Packing Unit: 10 pcs

761521.10

90° bend (ABS) for 25 mm pipe

TECHNICAL DATA	
AMBIENT TEMPERATURE	-40 °C ... 70 °C

Packing Unit: 10 pcs

761522.10

90° angle (ABS) for 25 mm pipe

TECHNICAL DATA	
AMBIENT TEMPERATURE	-40 °C ... 70 °C

Packing Unit: 10 pcs

761523.10

45° angle (ABS) for 25 mm pipe

TECHNICAL DATA	
AMBIENT TEMPERATURE	-40 °C ... 70 °C

Packing Unit: 10 pcs

761524.10

T-Piece (ABS) for 25 mm pipe

TECHNICAL DATA	
AMBIENT TEMPERATURE	-40 °C ... 70 °C

Packing Unit: 10 pcs

DETECTORS FOR SPECIAL APPLICATIONS

Aspirating Smoke Detectors - Accessories

761525.10

Sleeve (ABS) for 25 mm pipe

TECHNICAL DATA	
AMBIENT TEMPERATURE	-40 °C ... 70 °C

Packing Unit: 10 pcs

761526.10

End cap (ABS) for 25 mm pipe

TECHNICAL DATA	
AMBIENT TEMPERATURE	-40 °C ... 70 °C

Packing Unit: 10 pcs

761537.10

Mounting clip for 25 mm pipe

Packing Unit: 100 pcs

950101

Pipe (PVC), diameter 25 mm

Length = 25 m (each 5 m)

TECHNICAL DATA	
AMBIENT TEMPERATURE	-10 °C ... 60 °C

Packing Unit: 5 pcs

950119

90° bend (PVC) for 25 mm pipe

TECHNICAL DATA	
AMBIENT TEMPERATURE	-40 °C ... 70 °C

Packing Unit: 10 pcs

DETECTORS FOR SPECIAL APPLICATIONS

Aspirating Smoke Detectors - Accessories

950104

90° angle (PVC) for 25 mm pipe

TECHNICAL DATA	
AMBIENT TEMPERATURE	-40 °C ... 70 °C

Packing Unit: 10 pcs

950107

45° angle (PVC) for 25 mm pipe

TECHNICAL DATA	
AMBIENT TEMPERATURE	-40 °C ... 70 °C

Packing Unit: 10 pcs

950110

T-Piece (PVC) for 25 mm pipe

TECHNICAL DATA	
AMBIENT TEMPERATURE	-40 °C ... 70 °C

Packing Unit: 10 pcs

950116

Sleeve (PVC) for 25 mm pipe

TECHNICAL DATA	
AMBIENT TEMPERATURE	-40 °C ... 70 °C

Packing Unit: 10 pcs

950113

End cap (PVC) for 25 mm pipe

TECHNICAL DATA	
AMBIENT TEMPERATURE	-40 °C ... 70 °C

Packing Unit: 10 pcs

761549

Ceiling lead-through adapter (ABS)

Ceiling lead-through adapter (ABS) for suction hose set (Part No. 761542.10).

Almost invisible integration into false ceilings

761542.10

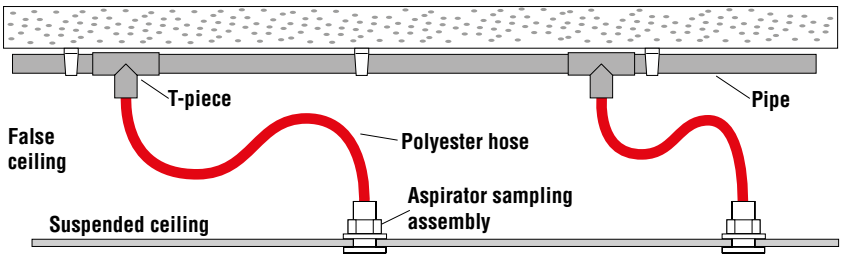
Suctions hose set for 25 mm pipe

For flexible installation in object surveillance or suspended ceilings.

All components are pre-mounted, but not glued; to enable cut and adaptation on-site.

TECHNICAL DATA	
DIMENSIONS	L: 3000 mm

1 x T piece (761524.10)
3 m corrugated polyester hose(761543)
1 x ceiling lead-through adapter with threaded joint



Application example: monitoring of room

DETECTORS FOR SPECIAL APPLICATIONS

Aspirating Smoke Detectors - Accessories

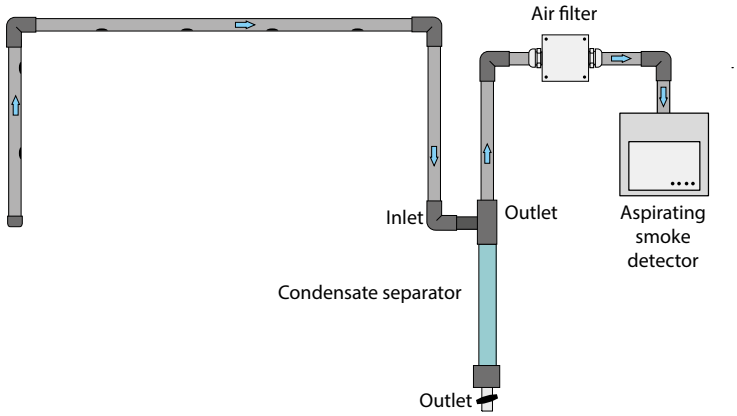
801606

Condensate trap for aspirating smoke detectors

Features

- Plastic housing with manual outlet valve
- Plug connectors for attaching to a piping system

TECHNICAL DATA	
AMBIENT TEMPERATURE	0 °C ... 80 °C
Material	ABS
Color	light gray
Weight	approx. 620 g
Dimensions	W: 68 mm H: 680 mm D: 36 mm



Application example

801544.10

Air filter for aspirating smoke detectors

Air filter for usage in areas with interfering environmental influences e.g. dust.

TECHNICAL DATA	
APPLICATION TEMPERATURE	-30 °C ... 60 °C
Material	ABS
Color	gray, similar to RAL 7035
Weight	approx. 620 g
Dimensions	W: 122 mm H: 194 mm D: 96 mm

Filter cartridges (1 x 60 ppi, 1 x 45 ppi, 1 x 25 ppi)

801604

Replacement air filter pads for 801544.10

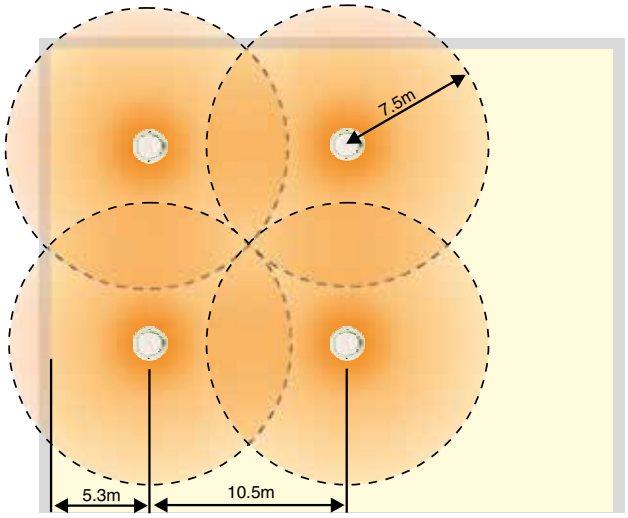
Replacement cartridge for air filters (Part No. 801544.10), consisting of one fine, medium and coarse filter pad each.

Step 1	Select **detector**	**Optical detector** HM/PSE	**Thermal ROR** HM/RHSE **Thermal 58° C** HM/FHSE	**Multi-Sersor** HM/PTSE	**Base** MI/B501AP/IV
Step 2	Select **Manual Call Point**	**Indoor MCP** M5A-RP06FF-K013-41	**Outdoor MCP** M5A-RP06SG-K013-41		
Step 3	Select **I/O module**	**Input modules** MI/DCZRM MI/D2ICMO MI/DMM2I MI/DMMI MI/DISO	**Output modules** MI/D240CMO MI/DCMO	**Mounting accessories** M200EDIN M200SMB SMB6-V0	
Step 4	Select **loop powered sounder/ strobe**	**Wall mounted sounder** WSO-PR-IO5	**Wall mounted sounder/strobe** WSS-PR-IO5	**Wall mounted strobe** WST-PR-IO5	**Base** MI/B501AP/IV
Step 5	Select **type of panel**	**DXc1 and letter version**	**DXc2 and letter version**		
Step 6	Select **loop expansion (DXc2 only)**		**2 loop expantion card** 795/111		
Step 7	Select **system I/O card**	**DXc system IO card** 795-132			
Step 8	Select **1 network card with panel if networked**	**DXc network card** 795-099			

The following information is intended only as a guide to the location and spacing of detectors. In some countries there are specific regulations wich must be followed. Please check your local regulations before installation of fire detection equipment.

Location and spacing of point fire detectors on flat ceilings

On a flat ceiling with no obstructions, the radius of protection of fire detectors is 7.5 m for a smoke detector and 5 m for a heat detector, and detectors should be mounted a minimum of 0.5 m from a wall. Following diagram gives a simple spacing plan based on these figures. In practice, the layout of the room must be considered to obtain the most efficient detector layout.



Ceiling Height

Smoke or heat detectors can only detect fires once a certain amount of smoke or heat has reached the sensor. As the height of a ceiling increases, the time taken for smoke or heat to reach a sensor will increase, and it will become diluted with clean, cool air. As a result, maximum ceiling heights are limited as indicated in table below.

Detector type	Maximum ceiling height
Point smoke detector conforming to EN54–7	11 m
Heat detector conforming to EN54–5	8 m
Optical beam detectors	25 m

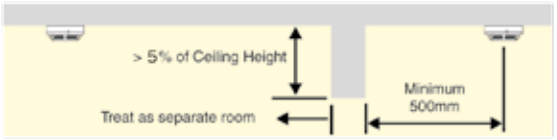
Often, a boundary layer can form close to the ceiling, which is free of smoke and remains cool. To avoid this, detectors should be sited so that their sensitive elements are within the top 5 % of the room height. Because of the possible existence of a cold boundary layer, detectors should not be recessed into the ceiling.

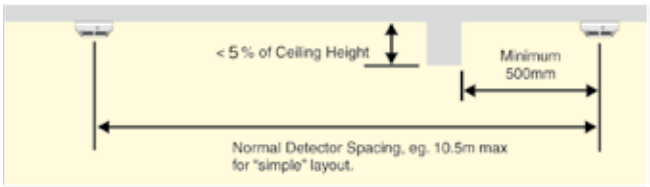
Detector design normally ensures that the minimum requirement is met, but care needs to be taken if the detectors are to be stood away from the roof, for example mounting on an open lattice suspended ceiling.

Ceiling Obstructions

Ceiling obstructions such as beams having a depth greater than 5 % of the ceiling height should be treated as a wall, and will thus divide a room. Detectors should not be mounted within 500 mm of such an obstruction.

If the depth an obstruction such as a beam is less than 5 % of the height of the ceiling, then detectors should not be mounted any closer than 500 mm to the obstruction.



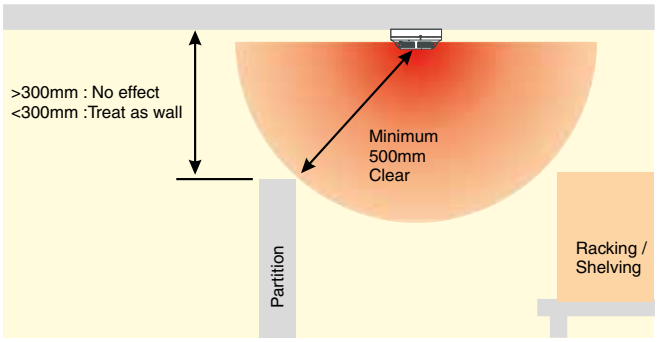


Where a ceiling comprises a series of small cells, for example a honeycomb ceiling, or a series of closely spaced beams, for example floor of ceiling joists, the recommended spacing and siting of detectors changes further, dependant on the ceiling height and the depth and spacing of the beams. Reference should be made to relevant standards for details.

Partitions and Racking

Where the gap between the top of a partition or section of tacking and the ceiling is greater than 300mm, it may be ignored. If the gap is less than 300mm it should be treated as a wall.

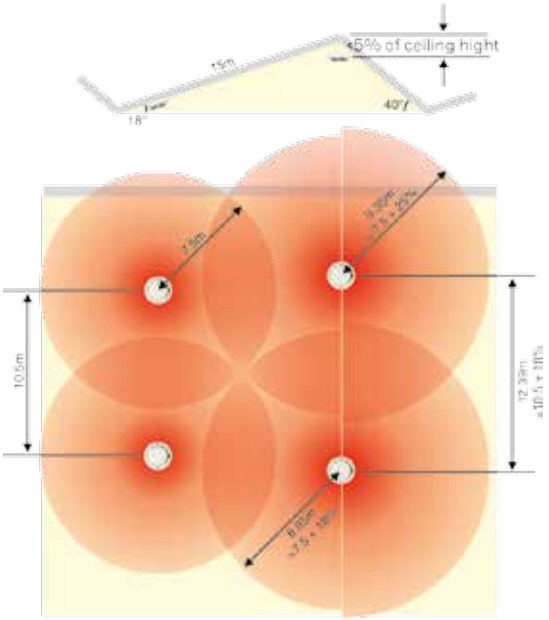
To maintain a free flow of smoke and heat to the detector, a clear space should be maintained for 500mm in all directions below the detector.



Sloping Ceilings

Since the smoke or heat tends to rise faster up the slope, it is permissible to use a greater spacing for the row of detectors mounted in the apex of the roof (see diagram below). For each degree of slope of the roof, the spacing may be increased by 1 % up to a maximum of 25 %. Care must be taken when placing the next row that no gaps are left in detection coverage.

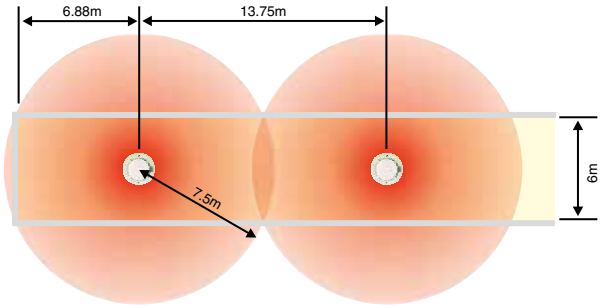
If the protected space has a pitched roof or stepped (north-light) roof then detectors should be installed within each apex. If the difference in height between the top and bottom of an apex is less than 5 % of the height of the apex above the floor, then the roof may be treated as if it were flat.



Corridors

Detectors (other than optical beam smoke detectors) should not be mounted within 0,5 m of any walls or partitions. If the room is narrower than 1.2 m then the detector should be mounted within the middle third of the width.

In narrow rooms and corridors greater than 2 m wide, due to the way that the coverage radii of detectors intersect with the walls of the corridor, the spacing between detectors will increase. Below figure shows how, for a room 6 m wide, the spacing for smoke detectors can be increased from the standard 10.5 m.



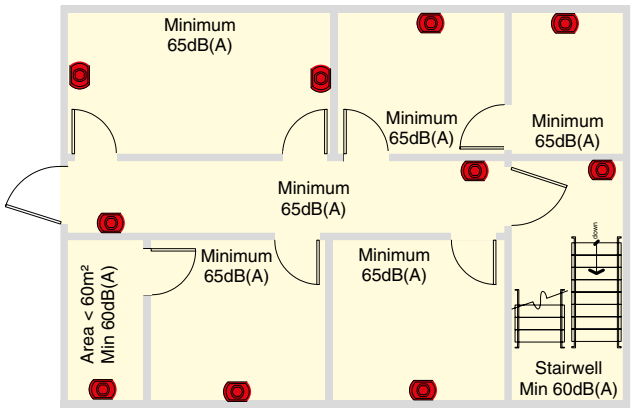
Note: Detectors are mounted in the centre line of the room

Alarm Signals

Audible Alarm Signals

Audible fire alarm signals must provide a clear warning of a fire to all those for whom the signal is intended.

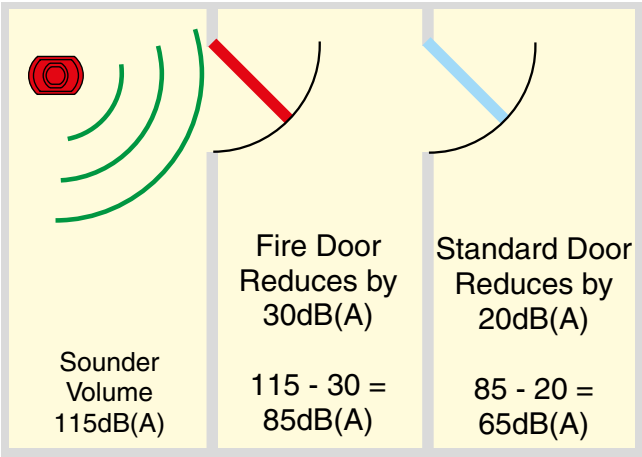
The general requirement for the volume of audible alarm signals is that they should provide a Sound Pressure Level (SPL) of at least 65dB(A) or 5 dB(A) above any other noise likely to persist for a period longer than 30 s, whichever is the greater., but not more than 120dB(A) throughout all accessible areas of a building.



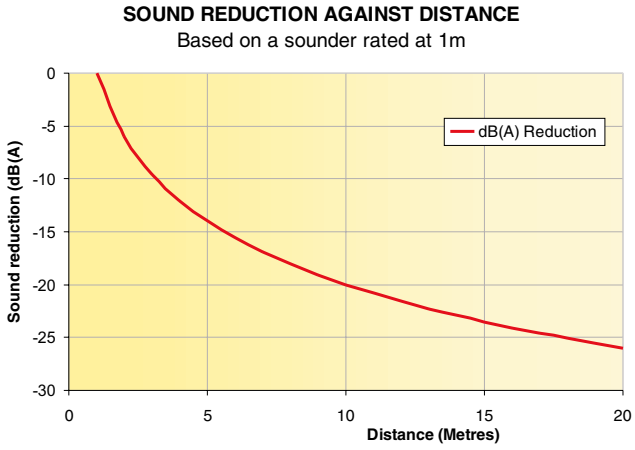
Where a continuous background noise level greater than 60dB(A) is present the fire alarm signal should be 5dB above the ambient, but not greater than 120dB(A).

Where the alarm is intended to wake people, an SPL of 75dB(A) is required at the bed head. Generally this will require a sounder to be placed within the room.

Where it is not possible to place a sounder within a room, there will be a loss of approximately 20dB(A) through a standard door, and 30dB(A) through a fire door.



In open space, as the distance from a sounder doubles, the sound level will be reduced by 6dB(A), as shown below.



Visual Alarm Signals

Visual alarms are normally used only as a supplement to audible alarms where they are likely to be ineffective, for example in areas of high background noise levels where hearing protection is likely to be worn. They can however be used alone where audible warnings are undesirable for example operating theatres and recording studios.

Visual alarms should be clearly distinguishable from other warning lights. The recommended mounting height is above 2.1 m, f the Visual alarm is required for the building evacuation, product guide must be taken in account as they have a certified coverage and installation height. They should be positioned so that any alarm is clearly visible from all locations within the area protected.

Manual Call Points

People can often still detect a fire long before automatic fire detectors; hence manual call points are important components of fire detection systems in occupied buildings to ensure timely evacuation in the case of fire. All call points should be approved to EN54-11, and should be of type A, that is once the frangible element is broken or displaced the alarm condition is automatic.

Manual call points should be mounted on all escape routes , near particular fire hazards, and at all exit points from the floors of a building and to clear air.

In order to provide easy access, call points should be mounted between 1.2 and 1.6m from the floor, and should be clearly visible and identifiable. The maximum distance anyone should have to travel in order to activate a manual call point is 30 m, unless the building is occupied by people having limited mobility, or a rapid fire development is likely, in which case the maximum travel distance should be reduced. Call points should also be sited in close proximity to specific hazards, for example kitchens or paint spray booths.

INDEX

Part Number Index

020-891 7
714/001/117 5
714/001/118 5
714/001/119 5
714/001/227 6
714/001/228 6
714/001/229 6
795-099 7
795/111 7
795-118 7
795-122 7
795-132 7
6500-LRK 35
761520.10 37
761521.10 37
761522.10 37
761523.10 37
761524.10 37
761525.10 38
761526.10 38
761537.10 38
761542.10 40
761549 40
781814 13
801544.10 41
801604 41
801606 41
950101 38
950104 39
950107 39
950110 39
950113 39
950116 39
950119 38
BRR 28
CSR 32
CWR 32
CWSO-RR-S1 30
CWSO-RR-W1 30
CWSS-RW-S5 31
CWSS-RW-W5 31
CWST-RW-S5 29
CWST-RW-W5 29
DNRE 34
DST1 34
DST1.5 34
DST3 34
DST5 34
DST10 34
HLSPS25 24
HLSPS50 24
HM/FHSE 12
HM/PSE 10
HM/PTSE 11
HM/RHSE 12
M5A-RP06FF-K013-41 16
M200E-DIN 22
M200SMB 22
MI/B501AP/IV 13
MI/D2ICMO 20
MI/D240CMO 21
MI/DCMO 20
MI/DCZRM 21
MI/DISO 22
MI/DMM2I 19
MI/DMMI 19
MI-FL2011EI 36
MI-FL2022EI 36
MI-LPB2-S2I 35
MUS156 17
POL-200-TS 8
PS031W 17
PS188 32
PS189 32
PS200 18
SC070 18
SMB6-V0 22
SMK400AP-IV 13
W5A-RP06SG-K013-41 17
WRR 28
WSO-PR-I05 26
WSS-PR-I05 27
WST-PR-I05 28

INDEX

Product Index

A

Addressable beam detector 35
Addressable wall mounted isolated sounder, red 26
Addressable wall mounted isolated sounder strobe, red 27
Addressable wall mounted isolated strobe, red 28
Air filter for aspirating smoke detectors 41
45° angle (ABS) for 25 mm pipe 37
45° angle (PVC) for 25 mm pipe 39
90° angle (ABS) for 25 mm pipe 37
90° angle (PVC) for 25 mm pipe 39

B

Base deep IP65, red 32
90° bend (ABS) for 25 mm pipe 37
90° bend (PVC) for 25 mm pipe 38

C

Ceiling lead-through adapter (ABS) 40
Condensate trap for aspirating smoke detectors 41
Conventional zone monitor module 21

D

Deep base for MI/B501AP/IV 13
Deep profile base, red 28
Deep waterproof base, red 28
Detector and AV standard base 13
DIN rail mounting bracket 22
Dual channel input module 19
Dual input single output module 20
Duct detector housing 34
DXc1, Single-loop control panel, Cyrillic letters 5
DXc1, Single-loop control panel, Greek letters 5
DXc1, Single-loop control panel, Latin letters 5
DXc2, Two-loop control panel, Cyrillic letters 6
DXc2, Two-loop control panel, Greek letters 6
DXc2, Two-loop control panel, Latin letters 6

E

End cap (ABS) for 25 mm pipe 38
End cap (PVC) for 25 mm pipe 39
EN Sounder, red 30
EN Sounder, red, IP65 30
EN Sounder/strobe with white strobe EN54-23, C & W class 31
EN Sounder/strobe with white strobe EN54-23, C & W class, IP65 31
EN Strobe with white strobe, EN54-23 C & W class 29
EN Strobe with white strobe, EN54-23 C & W class, IP65 29
2 loop expantion card 7

F

FAAST-LT Loop based ASD 36
Fixed 58° thermal detector 12

H

HM Series Detectors 10

I

Inlet sampling tube, 30 cm 34
Inlet sampling tube, 45.7 cm 34
Inlet sampling tube, 91.6 cm 34
Inlet sampling tube, 152 cm 34
Inlet sampling tube, 325.5 cm 34

L

Long-range reflector (70m-100m) 35

M

Manual Call Point isolated 16
Manual Call Point isolated IP67 17
Mounting clip for 25 mm pipe 38

N

Network card 7

O

Optical smoke detector 10
Optical-thermal smoke detector 11
O-ring for deep base 32

P

Pipe (ABS), diameter 25 mm 37
Pipe (PVC), diameter 25 mm 38
Power supply unit 24 V DC, 3 A 24
Power supply unit 24 V DC, 5 A 24

R

Rate of rise thermal detector 12
Remote indicator 13
Replacement air filter pads for 801544.10 41
RS232 kit for peripherals connection 7

S

Seal for deep base 32
Short-circuit isolator module 22
Single 240 V AC relay module 21
Single channel input module 19
Single channel output module 20
Sleeve (ABS) for 25 mm pipe 38
Sleeve (PVC) for 25 mm pipe 39
Spare EN54-11 glass pack for MCP 17
Spare keys pack for MCP 18
Spare low profile red base pack 32
Suctions hose set for 25 mm pipe 40
Surface mount box for 6 modules 22
Surface mounting base red for MCP 17
Surface mounting box for one module 22
System IO Card interface 7

T

T-Piece (ABS) for 25 mm pipe 37
T-Piece (PVC) for 25 mm pipe 39
Transparent cover for MCP 18

U

USB isolated upload/download lead 7
User access key switch kit 7

For more information
www.securityandfire.honeywell.com/easterneurope

Honeywell Life Safety Austria GmbH
Technologiestr. 5, Building F, 3rd floor
A-1120 Vienna

T: +43 (0)1 600 60 30
F: +43 (0)1 600 60 30-900
E: hls-austria@honeywell.com

AT1023.G0 | 04 2017 | TM

Honeywell
MORLEY IAS
FIRE SYSTEMS