

Sensors MAP820, MAOH850 and MAH830



MAP820 optical sensor



MAOH850 photo-thermal sensor



MAH830 heat sensor



optical / photo-thermal / heat detectors

Overview

The Menvier range of intelligent addressable sensors have been specifically designed to operate with Menvier intelligent addressable control panels.

All sensors are third party approved to the relevant section of EN54 (part 7 for smoke detectors & part 5 for heat detectors).

Features

- Soft addressed
- Integral short circuit isolator
- Wide range of sensor types
- 360° visibility LED

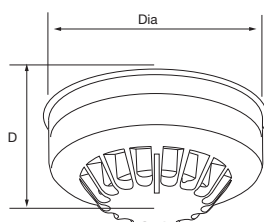
Benefits

- Single 'multi-mode' heat sensor

Technical Specification

| Code | MAP820 | MAOH850 | MAH830 |
|-----------------------------------|---|---|--|
| Description | Optical smoke sensor | Photo-thermal sensor | Multi-mode heat sensor |
| Standards | EN54 Pt7 2000 + A1:2002 | EN54 P5 & P7 2000 + A1:2002 | EN54 Pt5 2000 + A1:2002 |
| Operating voltage | 18V dc to 30V dc | 18V dc to 30V dc | 18V dc to 30V dc |
| Standby Current | 220µA (max) | 220µA (max) | 220µA (max) |
| Alarm Current | 5mA (max) | 5mA (max) | 5mA (max) |
| Addressing Mode | Auto address | Auto address | Auto address |
| Specification | | | |
| Mounting Position | Ceiling in open areas | Ceiling in open areas | Ceiling in open areas |
| Mounting Options | Surface mount with MAB800 base | Surface mount with MAB800 base | Surface mount with MAB800 base |
| Area Coverage | 100m ² (subject to local standard) | 100m ² (subject to local standard) | 50m ² (subject to local standard) |
| System Wiring | Min. 1.5mm, 2 core loop or spur | Min. 1.5mm, 2 core loop or spur | Min. 1.5mm, 2 core loop or spur |
| Heat Class | | | |
| Rate of Rise | N/A | A1S | A1R |
| Fixed Heat 77°C | N/A | N/A | BS |
| Fixed Heat 90°C | N/A | N/A | CS |
| Alarm Temperature (static) | | | |
| AIR | N/A | 60°C | 60°C |
| BS | N/A | N/A | 77°C |
| CS | N/A | N/A | 90°C |
| Indication | 360° visibility light pipe | 360° visibility light pipe | 360° visibility light pipe |
| Environmental | | | |
| Operating Temperature | -20°C to +60°C | -20°C to +50°C | -20°C to +60°C |
| Humidity (non condensing) | 0 to 95% RH | 0 to 95% RH | 0 to 95% RH |
| Physical | | | |
| Construction | PC/ABS | PC/ABS | PC/ABS |
| Colour | White | White | White |
| Dimensions Excl Base (Dia x D) | 101mm x 33mm | 101mm x 43mm | 101mm x 43mm |
| Dimensions Incl Base (Dia x D) | 104mm x 45mm | 104mm x 55mm | 104mm x 55mm |
| Weight (without base) | 76g | 76g | 76g |
| Compatibility | | | |
| Suitable for use with | Menvier intelligent addressable fire systems | Menvier intelligent addressable fire systems | Menvier intelligent addressable fire systems |

Dimensions



| Description | Dia (mm) | D (mm) (excl base) | D (mm) (incl base) |
|-----------------|----------|-----------------------|-----------------------|
| Optical | 101 | 33 | 45 |
| Photo-thermal | 101 | 43 | 55 |
| Multi-mode heat | 101 | 43 | 55 |

Installation

1. Sensors are fixed and wired via common mounting base.
2. Cable entry into base can be rear or side.
3. A locking facility is provided which can be activated if required to prevent unauthorised sensor removal without the use of a special tool.

Note: For wiring information please see MAB800 base

User Interface

1. LED indicates detector status, can be set to flash to confirm communication with control panel, illuminates continuously under fire conditions.
2. All wiring connections are via a common mounting base (ordered separately).

Product Codes

| Code | Description |
|-----------|--|
| MAP820 | Intelligent addressable optical smoke sensor |
| MAOH850 | Intelligent addressable photo/thermal sensor |
| MAH830 | Intelligent addressable multi-mode heat sensor |
| MAB800 | Intelligent addressable common base |
| MAB800*10 | Intelligent addressable common base (pack of 10) |
| MDP201 | Duct Probe |