Honeywell MORLEY IAS FIRE SYSTEMS | Thermal Detectors

HM-FHSE-UL, HM-RHSE-UL HM-HTSE-UL

HM-FHSE-UL

HM-RHSE-UL

HM-HTSE-UL

UL LISTED

General

The HM-FHSE-UL, HM-RHSE-UL and HM-HTSE-UL Series thermal detectors are addressable sensors that use a state-of-the-art thermistor sensing circuit for fast response. These sensors provide protection for open areas and can be used use with addressable Fire Alarm Control Panels (FACPs).

The HM-FHSE-UL and HM-RHSE-UL sensors provide fixed temperature detection at 135°F (57°C). The HM-RHSE-UL sensor also responds to rate of rise conditions of greater than 15°F (8.3°C) per minute. The HM-HTSE-UL is a fixed, high-temperature detector that activates at 190°F (88°C). These thermal detectors provide addressable property protection for a variety of applications.

Comes with two LEDs on each sensor that provide a local, visible sensor indication. The remote LED annunciator capability is available using an optional accessory, the RA100Z.

Installation

The HM-FHSE-UL Series of plug-in, intelligent thermal detectors use a detachable base to simplify installation, service, and maintenance. Installation instructions are shipped with each detector.

Mount base on an electrical backbox which is at least 1.5" (3.81 cm) deep. For a chart of compatible junction boxes, see DF-60059.

Application

Use thermal detectors for protection of property.

Construction

These detectors are constructed of off-white fire-resistant plastic. The HM-FHSE-UL Series plug-in, intelligent thermal detectors are designed to commercial standards and come with an appealing design.

Operation

Each HM-FHSE-UL Series detector uses one of 159 or 59 (Model: STX, 98 devices)possible addresses on a control panel SLC loop. It responds to regular polls from the control panel and reports type and status. If it receives a test command from the panel (or a local magnet test), the detector stimulates its electronics and reports an alarm. The LEDs blink when polled and the detector turns the LEDs on when commanded by the panel. The HM-FHSE-UL Series offer features and performance that represent the latest in thermal detector technology.

FEATURES & BENEFITS

SLC Loops:
- Two-wire SLC loop connection
- Unit uses base for wiring

Addressing:
- Addressable by device
- Rotary, decimal addressing: 1- 159 for models SMX and STX

Architecture:
- Sleek, low-profile, stylish design
- State-of-the-art thermistor technology for fast response
- Integral communications and built-in device-type identification
- Built-in tamper resistant feature
- Built-in functional test switch activated by external magnet

Operation:
- Factory preset at 135°F (57°C) for the HM-FHSE-UL and HM-RHSE-UL; 190°F (88°C) for the HM-HTSE-UL
- Rate-of-rise triggers at 15°F (8.3°C) per minute for the H355R(A)
- 360-degree viewing angle of the visual alarm indicators. LEDs blink red in Normal condition and steadily illuminate red in Alarm
- Visible LEDs blink every time the unit is addressed

Mechanicals:
- Sealed against back pressure
- SEMS screws for wiring of the separate base
- Designed for direct-surface or electrical-box mounting
- Plugs into separate base for ease of installation and maintenance

Other system features:
- Remote test feature from the panel
- Walk test with address display
- Low standby current
- 94-5V plastic flammability rating

Options:
- Flanged surface mounting kit

HM-FHSE-UL, HM-RHSE-UL, HM-HTSE-UL Technical Specifications

PARAMETER	SPECIFICATION
Size	• 2.1" (5.3 cm) high; base determines diameter • B501: 4.1" (10.4 cm) diameter
Shipping weight	4.8 oz. (137 g)
Installation temperature	• HM-FHSE-UL, HM-RHSE-UL: –4°F to 100°F (–20°C to 38°C) • HM-HTSE-UL: –4°F to 150°F (–20°C to 66°C)
Humidity range	10% to 93% relative humidity (non-condensing)
Voltage range	15 to 32 VDC peak
Standby current	300 µA @ 24 VDC (one communication every five seconds with LED blink enabled)
LED current	6.5 mA @ 24 VDC
Fixed-temperature setpoint	135°F (57°C) for the HM-FHSE-UL and HM-RHSE-UL; 190°F (88°C) for the HM-HTSE-UL
Rate-of-rise detection	Responds to greater than 15°F (8.3°C) per minute

ACCESSORIES	
SMB600	Surface mounting kit
M02-04-00	Test magnet
M02-09-00	Test magnet with telescoping handle
XR2B	Detector removal tool. Allows installation and/or removal of detector heads from bases in high ceiling applications
XP-4	Extension pole for XR2B. Comes in three, 5-foot (1.524 m) sections
T55-127-010	Detector removal tool without pole

Agency Listings and Approvals

Listing and approval below apply to the modules specified in this. In some cases, certain modules may not be listed by certain approval agencies, or listing may be in process. Consult factory for latest listing status.

- **UL Listed:** S36217

PRODUCT LINE INFORMATION	
HM-FHSE-UL	Intelligent thermal sensor; 135° F (57° C); B501 base included
HM-RHSE-UL	Same as HM-FHSE-UL with rate of rise feature; B501 base included
HM-HTSE-UL	Intelligent, fixed, high-temperature thermal detector; 190° F (88° C); B501 base included

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