Reviewed for Code Compliance
Inspections Division
Approved with Conditions
Date: 06/19/17

H355 Series

Intelligent Addressable Thermal (He Detectors for MS-9600, MS-9200UD

Section: Addressable Devices

GENERAL

The **Fire·Lite H355 Series** thermal detectors are addressable sensors that use a state-of-the-art thermistor sensing circuit for fast response. These sensors are designed to provide open-area protection and are intended for use with the **MS-9600** and **MS-9200UD** Fire Alarm Control Panels (FACPs).

Both the **H355** and **H355R** sensors provide fixed temperature alarm detection at 135°F. The **H355R** sensor responds to rate-of-rise conditions of greater than 15°F/8.3°C per minute. **H355HT** provides fixed high-temperature detection at 190°F/88°C. These thermal detectors provide cost effective, addressable property protection in a variety of applications.

Two LEDs on each sensor light to provide a local, visible sensor indication. Remote LED annunciator capability is available as an optional accessory (P/N **RA400Z**).

LISTED

California State Fire Marshal
7270-0075:195

FM APPROVED

H355 in B350LP base

FEATURES

SLC loop:

- Two-wire SLC loop connection.
- Unit uses base for wiring.

Addressing:

- Addressable by device.
- Direct Decade 01 – 159 (MS-9600), or 01 – 99 (MS-9200UD) entry of address.

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).
- Rate-of-rise model (H355R), 15°F (8.3°C) per minute.
- 360°-field viewing angle of the visual alarm indicators (two bicolor LEDs). LEDs blink green in Normal condition and turn on steady 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.
- Separate base allows interchange of photoelectric, ionization and thermal sensors.

Other system features:

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

Options:

- Remote LED output connection to optional RA400Z remote LED annunciator.
- Recessed (**RMK400**) or surface (**SMK400**) base mounting kits.

APPLICATIONS

Use thermal detectors for protection of property.

CONSTRUCTION

These detectors are constructed of off-white Bayblend®.

The H355 Series plug-in intelligent thermal detectors are designed to commercial standards and offer an attractive appearance.

Bayblend® is a registered trademark of Bayer Corporation.

This document is not intended to be used for installation purposes. We try to keep our product information up-to-date and accurate. We cannot cover all specific applications or anticipate all requirements. All specifications are subject to change without notice.

For more information, contact **Fire·Lite Alarms**, One Fire-Lite Place, Northford, Connecticut 06472. Phone: (800) 627-3473, Toll-Free FAX: (877) 699-4105.

ISO 9001 CERTIFIED ENGINEERING & MANUFACTURING

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INSTALLATION

H355 Series plug-in intelligent thermal detectors use a detachable base to simplify installation, service and maintenance. Installation instructions are shipped with each detector.

Mount base (all base types) on box that is at least 1.5" (3.81 cm) deep. Suitable boxes include:

- 4.0" (10.16 cm) square box.
- 3.5" (8.89 cm) or 4.0" (10.16 cm) octagonal box.
- Single-gang box (except relay or isolator base).

NOTE: *Because of the inherent supervision provided by the SLC loop, end-of-line resistors are not required. Wiring "T-taps" or branches are permitted for Style 4 (Class "B") wiring only.*

OPERATION

Each H355 Series detector uses one of 159 (MS-9600) or 99 (MS-9200UD) possible addresses on a control panel SLC loop. It responds to regular polls from the control panel and reports its type and the status. If it receives a test command from the panel (or a local magnet test), it stimulates its electronics and reports an alarm. It blinks its LEDs when polled and turns the LEDs on when commanded by the panel. The H355 Series offers features and performance that represent the latest in thermal detector technology.

SPECIFICATIONS

Diameter: 6.1" (15.5 cm) installed in B350LP.

Height: 2.1" (5.33 cm).

Weight: 4.8 oz. (137 g).

Installation temperature: –4°F to 100°F (–20°C to 38°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 5 seconds with LED blink enabled).

LED current: 6.5 mA @ 24 VDC.

Mounting: B350LP flanged base, included.

Fixed-temperature setpoint: 135°F (57°C).

Rate-of-rise detection: responds to greater than 15°F/8.3°C per minute.

PRODUCT LINE INFORMATION

NOTE: *"A" suffix indicates ULC-Listed model.*

H355	Intelligent thermal sensor *(B350LP base included)*.
H355A	Same as H355 but with ULC Listing *(B350LPA base included)*.
H355R	Same as H355 with ***rate-of-rise*** feature *(B350LP base included)*.
H355RA	Same as H355R but with ULC Listing *(B350LPA base included)*.
H355HT	Intelligent ***high-temperature*** thermal detector *(B350LP base included)*.
H355HTA	Same as H355HT but with ULC Listing *(B350LPA base included)*.
RA400Z(**A**)	Remote LED. Mounts to a single-gang box.
B350LP(**A**)	Plug-in detector base *(included)*. ***Dimensions:*** 6.1" (15.5 cm). ***Mounting:*** 4.0" (10.16 cm) square box with or without plastic ring, 4.0" (10.16 cm) octagonal box, 3.5" (8.89 cm) octagonal box, or single-gang box. All mounting boxes have a minimum depth of 1.5" (3.81 cm).
M02-04-00	Test magnet.
B224RB(**A**)	Plug-in System Sensor ***relay*** detector base. ***Diameter:*** 6.2" (15.75 cm). ***Mounting:*** 4.0" (10.16 cm) square box with or without plastic ring, 4.0" (10.16 cm) octagonal box, or 3.5" (8.89 cm) octagonal box. All mounting boxes have a minimum depth of 1.5" (3.81 cm).
B501BH(**A**)	Plug-in System Sensor ***sounder*** detector base. ***Diameter:*** 6.0" (15.24 cm). ***Mounting:*** 4.0" (10.16 cm) square box with or without plastic ring. Mounting box has a minimum depth of 1.5" (3.81 cm).