GENERAL

The CP350 Addressable, low-profile (Height: 1.7 inches) plug-in Ionization Detector uses a state-of-the-art ionization sensing chamber to provide open area protection and is used exclusively with Fire-Lite's MS-9200 and MS-9600 Addressable Fire Alarm Control Panels. The ionization detector is used to sense products-of-combustion and report the measured level of such products to the fire alarm control panel. Since this detector is addressable, it will help emergency personnel quickly locate a fire during its early stages, potentially saving precious rescue time while also reducing property damage. Two LEDs on each sensor light to provide a local, visible sensor indication. Remote LED annunciator capability is available as an optional accessory (Part No. RA400Z).

FEATURES

SLC Loop
• 2-wire loop connection.
• Unit uses base for wiring.

Addressing
• Addressable by device.
• Direct Decade 01-99 (MS-9200) and 01-159 (MS-9600) entry of address.

Architecture
• Unique single source, dual chamber design to respond quickly and dependably to a broad range of fires.
• Sleek, low-profile design.
• Integral communications and built-in type identification.
• Built-in tamper-resistant feature.
• Removable cover and insect-resistant screen for simple field cleaning.

Operation
• Withstands air velocities up to 1,500 feet-per-minute without triggering a false alarm.
• Factory preset at 1.5% nominal sensitivity for panel alarm threshold level.
• Visible LED “blinks” when the unit is addressed (communicating with the fire panel) and latches on in alarm.

Mechanicals
• Sealed against back pressure.
• Direct surface mounting or electrical box mounting.
• Mounts to: single-gang box, 3.5" or 4" octagonal box, or 4" square electrical box (using a plaster ring).

Other System Features
• Fully coated circuit boards and superior RF/transient protection.
• 94-V0 plastic flammability rating.
• Low standby current.

Options
• Remote LED output connection (Part No. RA400Z).

APPLICATIONS

Use ionization detectors in life-safety applications to provide a broad range of fire-sensing capability, especially fast, flaming fires. Where smoldering fires are anticipated, a photoelectric sensor may provide faster response.

CONSTRUCTION

These detectors are constructed of LEXAN® in an off-white color. The CP350 plug-in low-profile smoke detectors are designed to commercial standards and offer an attractive appearance.
INSTALLATION
The CP350 Plug-In Detectors use a detachable mounting bracket to simplify installation, service and maintenance.
Mount base on box which is at least 1.5 inches (3.81 cm) deep. Suitable boxes include:
• 4" (10.16 cm) square box with plaster ring.
• 4" (10.16 cm) octagonal box.
• 3.5" (8.89 cm) octagonal box.
• Single-gang box.
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.

OPERATION
Each CP350 uses one of 99 possible addresses on the MS-9200 Signaling Line Circuit (SLC) or up to 318 (159 on each loop) on the MS-9600 SLC. It responds to regular polls from the system and reports its type and status.
The CP350 Addressable Ionization Sensor™ unique unipolar chamber responds quickly and uniformly to a broad range of smoke conditions and can withstand wind gusts up to 1,500 feet-per-minute without sending an alarm level signal. Because of the unipolar chamber, the CP350 is approximately two times more responsive than most ionization sensors. This makes it a more stable detector.

SPECIFICATIONS
Voltage range: 15 - 32 VDC (peak).
Standby current: 300 µA @ 24 VDC.
LED current: 6.5 mA @ 24 VDC (latched “ON”).
Air velocity: 1,500 ft./min. (7.6 m/sec.) maximum.
Diameter: 5.0 inches (12.7 cm), 6.1 inches (155 mm) installed in B350LP base.
Height: 1.7 inches (43 mm) installed in B350LP base
Weight: 3.6 oz. (102 g).
Temperature: 0° - 49°C (32° - 120°F).
Relative humidity: 10% - 93%, non-condensing.

PRODUCT LINE INFORMATION
CP350 Addressable Ionization Detector (B350LP base included).
CP350A Same as above with ULC listing (B350LP base included).
RA400Z Remote LED. Mounts to a single-gang box.
B350LP Plug-in Detector base (included). Dimensions: 6.1" (155 mm). Mounting: 4" (102 mm) square box with or without plastic ring, 4" octagon box, 3 1/2" octagon box or single gang box. All mounting boxes have a minimum depth of 1.5" (38 mm).
B224RB Plug-in System Sensor relay detector base. Diameter: 6.2" (157 mm). Mounting: 4" (102 mm) square box with or without plastic ring, 4" octagon box, 3 1/2" octagon box. All mounting boxes have a minimum depth of 1.5" (38 mm).
B501BH Plug-in System Sensor sounder detector base. Diameter: 6.0" (153 mm). Mounting: 4" (102 mm) square box with or without plastic ring. Mounting box has a minimum depth of 1.5" (38 mm).

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