



**Fire-Lite® Alarms**

www.firelite.com

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DF-52158 E-250

# CP350 Intelligent Addressable Ionization Detector

Section: Addressable Devices

## 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).



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CP350.jpg

**CP350**

## 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).

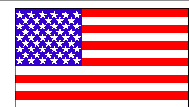
## APPLICATIONS

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.

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, FAX Back:(888) 388-3299.



Made in the U.S.A.

## 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  $\mu$ A @ 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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