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ANALOG, ADDRESSABLE PHOTOELECTRONIC SMOKE SENSOR

GENERAL

The FCI Series analog addressable plug-in smoke sensors with integral communication provide features that surpass conventional sensors. Sensitivity can be programmed in the control panel software, and is continuously monitored and reported to the panel. Point ID capability allows each sensor's address to be set with decade address switches, providing exact locations for selective maintenance when chamber contamination reaches an unacceptable level. The ASD-PL2 photo-electric sensor's unique optical sensing chamber is engineered to sense smoke produced by a wide range of combustion sources. Dual electronic thermistors add 135°F (57°C) fixed-temperature thermal sensing on the ASD-PLT2.

INSTALLATION

ASD-PL2 plug-in sensors use a separate base to simplify installation, service, and maintenance. A special tool allows maintenance personnel to plug in and remove detectors without using a ladder.

Mount the base on a box which is at least 1.5" (3.81 cm) deep. Suitable mounting base 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).
- **With B501BH base**, use a 4.0" (10.16 cm) square box.
- **With B224RB or B224BI base**, use a 3.5" (8.89 cm) octagonal box, or a 4.0" (10.16 cm) octagonal or square box.

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

FEATURES

- *Sleek, low-profile design.*
- *Analog Addressable communication.*
- *Stable communication technique with noise immunity.*
- *Low standby current.*
- *Rotary 01 to 99 address switches*
- *Optional remote, single-gang LED Indicator (RA400Z).*
- *Dual LED design provides 360° viewing angle.*
- *Visible red LEDs flash every time the detector is polled, and light steadily on alarm.*
- *Built-in functional test switch activated by external magnet.*
- *Optional relay, isolator, or sounder bases.*
- *Listed to UL 268.*

DETECTOR SPACING:

FCI recommends spacing sensors in compliance with NFPA 72. In low airflow applications with smooth ceilings, space sensors 30 feet (9.144 m). For specific information regarding sensor spacing, placement, and special applications, refer to NFPA 72. *System Smoke Detector Application Guide*, document A05-1003, is available at www.systemsensor.com.



ASD-PL2



ASD-PLT2



An ISO 9001 Company

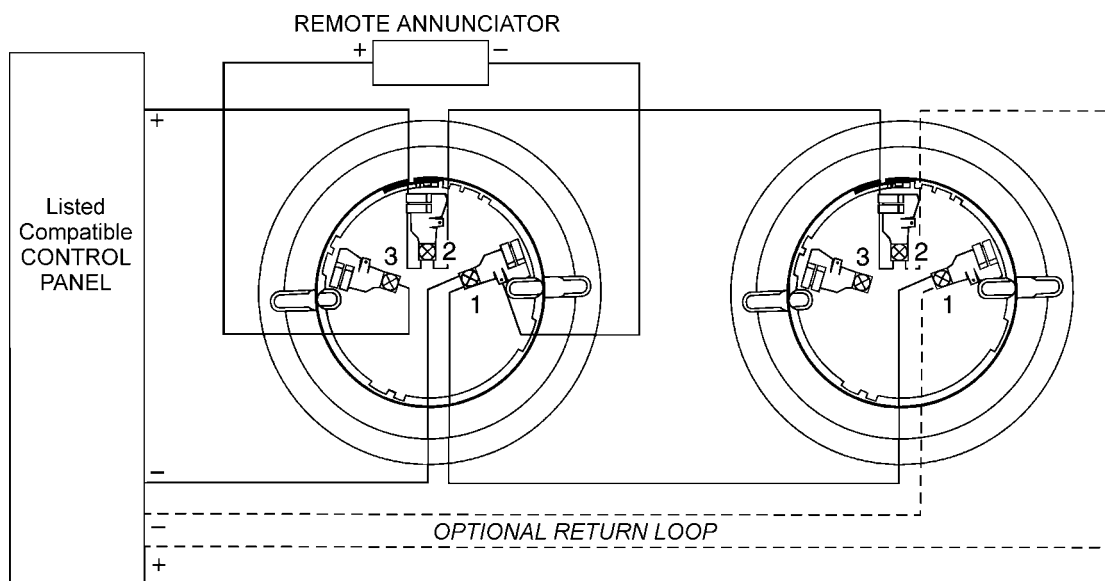
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SPECIFICATIONS

Size: 2.1" (5.1 cm) high x 4.1" (10.4 cm) diameter installed in B501 base, 6.1" (15.5 cm) diameter installed in ADB-FL base.

Shipping weight: 5.2 oz. (147 g).

Operating temperature: ASD-PL2- 0°C to 49°C (32°F to 120°F); ASD-PTL2- 0°C to 38°C (32°F to 100°F).

Low-temperature signal for ASD-PTL2 at 45°F/7.22°C (+/- 10°F/5.54°C).

UL-Listed velocity range: 0 – 4000 ft./min. (1219.2 m/min.), suitable for installation in ducts.

Relative humidity: 10% – 93% noncondensing.

Thermal ratings: fixed-temperature setpoint 135°F (57°C).

ELECTRICAL SPECIFICATIONS

Voltage range: 15 - 32 volts DC peak.

Standby current (max. avg.): 250 µA @ 24 VDC (without communication); 360 µA @ 24 VDC (one communication every 5 seconds with LED enabled).

LED current (max.): 6.5 mA @ 24 VDC ("ON").

BASES AVAILABLE

B210LP: 6.1" (15.5 cm) diameter.

B501: 4.1" (10.4 cm) diameter.

B501BH or B501BHT: Sounder base assembly (B501BHT produces a temporal pattern). Includes B501 base.

B224RB Relay Base: **Screw terminals:** up to 14 AWG (2.0 mm²). **Relay type:** Form-C. **Rating:** 2.0 A @ 30 VDC resistive; 0.3 A @ 110 VDC inductive; 1.0 A @ 30 VDC inductive. **Dimensions:** 6.2" (15.748 cm) x 1.2" (3.048 cm).

B524BI Isolator Base: **Dimensions:** 6.2" (15.748 cm) x 1.2" (3.048 cm). **Maximum:** 25 devices between isolator bases.

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