



Description

Mircom's 100 Series Plug-in Smoke Detectors offer superb performance and reliability in a profile which is just 1.6" (4.2 cm) deep. Model 1151 (ionization sensor) and Model 2151 (photoelectronic sensor) share the same sleek low-profile design and can be used with a variety of different adapter bases in several wiring configurations and voltages. Other features include: low current draw, stable performance in high air velocities, built-in tamper resistant base design, remote LED option, removable cover, and built-in test switch.

The 100 Series is designed to meet the performance criteria designated by UL. Their sensing chambers are sealed against back pressure air flow, dirt, and insects. This chamber is protected by a fine mesh screen which can be cleaned or replaced. Additional key features include interchangeable ion and photo heads, a variety of mounting bases, and a full line of accessories.

Ionization

All 100 Series ionization smoke detectors include a single source, dual chamber design that senses smoke particles. This chamber exhibits excellent stability, significantly reducing nuisance alarms, and provides good performance at higher air velocities.

Photoelectronic

All 100 Series photoelectronic smoke detectors contain a unique optical sensing chamber designed to sense smoke particles produced by a wide range of combustion sources. A custom integrated circuit incorporates signal processing to reduce false alarms.

Features

- Sleek, low-profile design
- Same housing design for both ion and photo models
- Compatible with 400 Series product
- Two LEDs blink in standby, providing 360° visibility
- Field sensitivity metering of detector to meet the requirements of NFPA 72
- Broad range of adapter bases available with built-in shunting spring

光電偵煙探測器

Specifications

Operating Voltage/Alarm Current:

See Adapter Base Selection Guide

Standby Current:

Ion: 40 µA Standby

Photo: 85 µA Standby

Sensitivity: .97 ±.47%/ft. Ion
3% ±.7%/ft. Photo

Shipping Weight: 3.6 oz. (104 g)

Size: 1.66" h. (4.22 cm)

4.1" /104 mm dia.

unflanged base

6.1" /155 mm dia. flanged base

Construction: Flame retardant thermoplastic

Temperature: 32°F to 120°F (0 to 49°C)

UL Listed Velocity Range:

Ion: 0 – 1200 fpm

Photo: 0 – 3000 fpm

Humidity Range: 10% – 93% RH noncondensing

Smoke Detector Spacing:

On smooth ceilings (as defined in NFPA 72), spacing of 30 feet (900 sq. ft.) may be used as a guide. Other spacing may be used depending on ceiling height, high air movements, and other conditions or response requirements.



CATALOGUE NUMBER

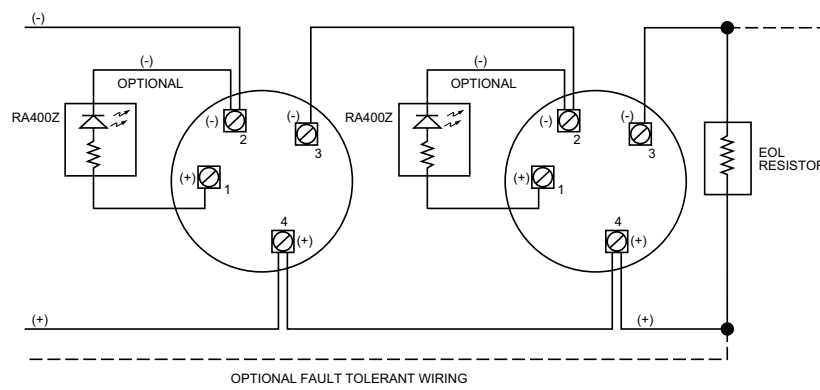
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Dimensions and Mounting Instructions

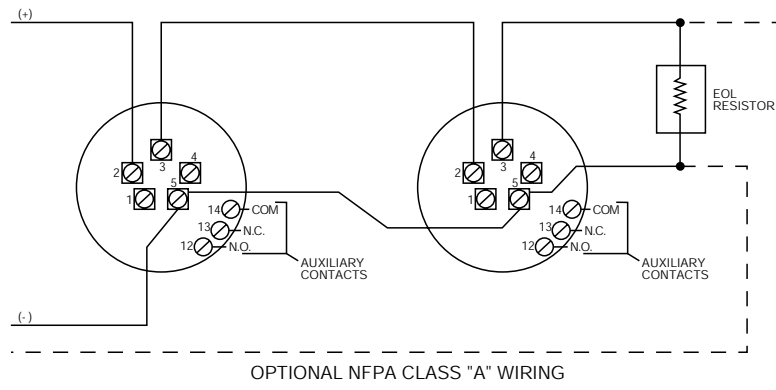
The ionization detector model shall be equipped with a dual-chamber, unipolar sensing chamber. The nominal sensitivity of the detector shall be 1.0%/ft. as measured in a UL smoke box and shall not alarm when it is exposed to wind gusts up to 1200 feet per minute. The photoelectric detector model shall have a nominal sensitivity of 3.0%/ft. as measured in a UL smoke box with a nominal signal-to-noise ratio of 2.0. Both ionization and photoelectric detector models shall be available. The detector shall be equipped with a light-emitting diode (LED) that is visible from the floor. This LED shall blink every ten seconds to indicate that the detector is operational, in standby, and latch on as a visual indication of alarm. The detector shall be capable of applying an output voltage to an optional remote LED annunciator as an indication of its status. The photoelectric detector shall include built-in circuitry that

performs a functional test of all detection circuits at least once every 40 seconds without the need for generating smoke. It shall be possible to perform a calibrated sensitivity and performance test on the detector without the need for generating smoke. The test method shall test all detector circuits. The detector screen and cover assembly shall be easily removable for cleaning or replacement. It shall maintain stable operation when it is exposed to wind gusts of up to 3000 feet per minute. The detector shall use a plug-in, low-profile design that is both unobtrusive and aesthetically pleasing. A line of plug-in bases for a variety of applications shall be available for use with the detectors. Wire connections shall be made by means of a clamping plate and screw. These bases shall allow for mounting directly to a surface or to a 3½" or 4" octagon box.

B110LP Wiring Diagram



B116LP Wiring Diagram



Ordering Information

Model Description

1151	Low-profile ionization detector (Add suffix "A" for Canadian model)
2151	Low-profile photoelectric detector (Add suffix "A" for Canadian model)
B110LP	Series 100 Low-profile base, 2-wire
B116LP	Series 100 Low-profile base, 2-wire c/w Form C contact

NOT TO BE USED FOR INSTALLATION PURPOSES.



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