

System Sensor 2151

Low Profile Plug-in Photoelectric Smoke Detector



Features

- 24 volt operation
- Removable cover and insect screen for easy cleaning
- Two LEDs blink in standby, latch in alarm, providing 360° visibility
- Field sensitivity metering of detector to meet NFPA 72 requirements
- Broad range of adapter bases available with built-in shorting spring
- Sealed against dirt, insects, and back pressure

Description

The 2151 Plug-in Photoelectric Smoke Detector offers superb performance and reliability in a profile which is just 1.6" (4.2 cm) deep. The 2151 has a sleek low-profile design and can be used with a variety of different adapter bases in several wiring configurations.

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 2151 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 a variety of mounting bases, and a full line of accessories.

The 2151 photoelectronic smoke detector contains 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. provides good performance at higher air velocities.

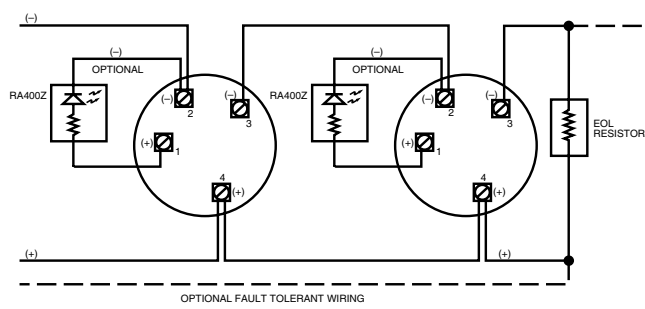


Technical Data

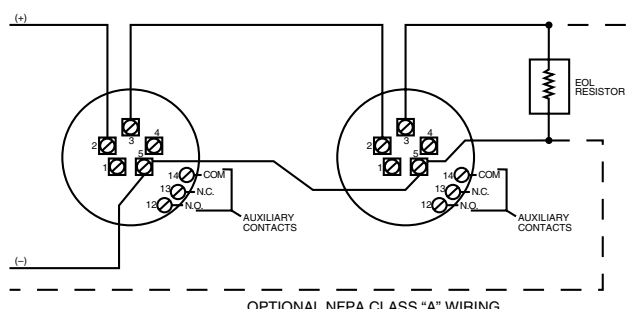
Voltage
24 VDC
Standby Current
85 μ A
Alarm Current
100 mA, limited by panel
Sensitivity
3.0 \pm 0.7 %/ft. nominal
Temperature Range
0° to 49°C (32° to 120°F),

Humidity Range
10% - 93% RH non-condensing
Air Velocity Rating
15 m/s (3000 fpm) maximum
Height
4.22 cm (1.66")
Diameter
10.4 cm (4.1"), flangeless base 15.5 cm (6.1"), flanged base
Weight
104 g (3.6 oz)

Typical Wiring Diagrams



Wiring Diagram for B401 and B110LP Bases



Wiring Diagram for B116LP Base

Ordering Information

Model	Description
2151	Low Profile Plug-In Photoelectric Smoke Detector, UL
2151A	Low Profile Plug-In Photoelectric Smoke Detector, ULC
2151C	Low Profile Plug-In Photoelectric Smoke Detector, China
2151E	Low Profile Plug-In Photoelectric Smoke Detector, Europe
B401	Flangeless base
B110LP	Flanged base
B116LP	Flanged relay base, 1 Form C relay
B401BH	Sounder base, requires separate 24 VDC supply
F110	Retrofit replacement flange for MRD-B400 series flanged bases
BCK200	Black retrofit flange and cover, package of 10
RA400Z	Remote LED annunciator
MOD400	Detector metering adapter module; use with most analog or digital multi-meters
M02	Test Magnet

