

HEAT DETECTORS

5451

Plug-in Heat Detector



Features

- Low standby current
- Two visible LEDs “blink” in standby and provide a 360° field viewing angle
- Wide variety of mounting bases with built-in shorting spring
- Detector head plugs easily into base
- Field adjustable sensitivity
- Built-in test switch
- Built-in tamper-resistant feature
- Designed for direct surface or electrical box mounting
- SEMS screws for easy wiring
- Optional recessed mounting

Description

The 5451 plug-in heat detectors are designed to meet the performance criteria designated by UL/ULC. Additional key features include a recessed mounting option, interchangeable ion, photo, or thermal detectors, a variety of mounting bases, and a full line of optional accessories.

The 5451 thermal rate-of-rise with fixed heat detector contains a unique dual thermistor heat sensing circuit to provide maximum performance and solid state reliability. The 5451 is designed to initiate an alarm at 57°C (135° F) and to respond to an increase in excess of 8°C (15°F) per minute.

This enables the heat detector to communicate an alarm to the central control panel prior to reaching the static set point for these high rates of rise, providing a timely response to both rapid and slow temperature increases. This model should be used in applications where rapid response is desired and where rapid temperature increases would only be caused by a fire emergency.

The 5451 detector appears the same as a conventional two wire smoke detector to the fire panel; this requires that the 5451 heat detector be connected to a smoke detector circuit from the fire alarm control panel.

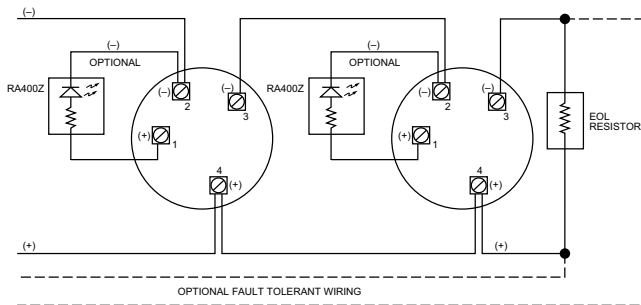


Technical Data

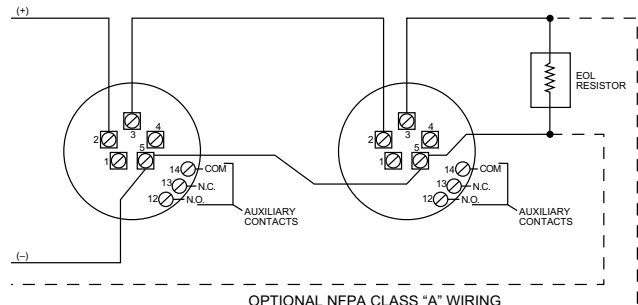
Voltage
24 VDC
Standby Current
100 μ A
Alarm Current
100 mA, limited by panel
Alarm Point
57°C (135°F) or 8°C (15°F) per minute
Temperature Range
0° to 38°C (32° to 100°F)

Height
8.1 cm (3.2")
Diameter
10.2 cm (4.0"), flangeless base 15.8 cm (6.2"), flanged base
Weight
136 g (0.3 lb)

Typical Wiring Diagrams



Wiring Diagram for B401(B) base



Wiring Diagram for B406B base

Ordering Information

Model	Description
5451	Plug-In Heat Detector
5451A	Same as 5451, ULC
5451C	Same as 5451, CHINA
5451E	Same as 5451, EUROPE
B401	Flangeless base
B401B	Flanged base
B406B	Flanged relay base
B401BH	Sounder base, requires separate 24 VDC supply
RA400Z	Remote LED annunciator
RMK400	Recessed mounting kit for B401 base
MOD400	Detector metering adapter module; use with most analog or digital multi-meters