



5151 Series Plug-In Heat Detectors

System Sensor 5151 Series Plug-In Heat Detectors offer superb performance and reliability in a sleek, low-profile design.



Features

- Fully electronic design utilising thermistor sensing technology
- Low standby current
- Compatible with 100 and 400 Series products
- Two visible LEDs "blink" in standby and provide a 360° field viewing angle
- Detector head plugs easily into base
- Built-in magnetic test switch
- Wide variety of mounting bases with built-in shorting spring

The 5151 Series of fire heat detectors meets the needs for applications where rapid response is vital and rapid temperature increases would only be caused by a fire emergency.

These detectors initiate an alarm in response to both a rapid rate-of-rise in temperature (increases in excess of 8°C per minute) or respond to a fixed alarm set point (63°C & 90°C). This enables the heat detector to communicate an alarm to the fire alarm control panel (CIE) prior to reaching its fixed set point for high rates of rise of temperature (ROR models only), providing a timely response to both rapid and slow temperature increases. Four different models are available to suit a wide range of applications.

These heat detector models comply with the requirements of AS7240.5-2004.

Additional key features include a magnetic test feature and a full line of optional accessories.

Agency Listings

- SAI-Global Limited (AS7240.5-2004)



5151 Series Plug-in Smoke Detector Specifications

Physical Specifications					
Height					42 mm (1.64")
Diameter					102 mm (4.0")
Shipping Weight					80g (2.8 oz.)
Operating Humidity Range					10 % – 93 % RH non-condensing
Application Temperature Range					0° to 38°C (32° to 100°F)
Electrical Specifications					
Operating Voltage Range					8.5 to 35VDC
Standby Current					30µA @24VDC
Thermal Detector Spacing					Refer to requirements of Australian Standard AS1670.1-2004
Adapter Base Selection Guide					
Base Model Number	Loop Type	Current Limit Resistor	Contact Type	Nominal Voltage	Current Draw on Alarm (mA)
B110LP/B401B*	2-wire**	No	—	12/24VDC	10-130 [†]
B110RLP/B401BR*	2-wire**	Yes	—	24VDC	10-62
B112LP/B402B*	4-wire	Yes	Form A&C	24VDC	17-36
B114LP/B404B*	4-wire	Yes	Form A&C + A Supervisory	12VDC	75 mA AC Max
B116LP/B406B*	2-wire**	No	Form C	24VDC	20-100 ^{††}
B401 ^{††}	2-wire**	No	—	12/24VDC	10-130 [†]

* The 400 Series 6-inch bases, B401B, B401BR, B402B, B404B, and B406B, have been made compatible with the new 100 Series for retrofit applications only. When using these 400 Series bases, use the F110 flange

** Functionality contingent on panel compatibility

† Must be limited by control panel

†† Flangeless base.

Relay Contact Ratings: Resistive or Inductive (60% power factor) load.

Form A: 2.0A at 30 VAC/DC

Form C: 0.6A at 110VDC, 2.0A at 30VDC ; 1.0A at 125VAC, 2.0A at 30VAC

Junction Box Selection Guide*							
Base Model Number	Single Gang	3½" Octagon	4" Octagon	4" Square	50 mm	60 mm	75 mm
B401	No	No	No	No	Yes	Yes	No
B110LP/RLP	Yes	Yes	Yes	Yes	No	No	No
B112LP/B116LP	Yes	Yes	Yes	Yes	Yes	Yes	Yes
B114LP	No	No	Yes	Yes	No	No	No

*Box depth contingent on base and wire size. Refer to National Electrical Code or local applicable codes for appropriate recommendations.

Ordering Information

Part No.	Description
5151AUS	Fixed Temp heat detector (63°C)
5151RAUS	ROR & Fixed heat detector (63°C)
5151HAUS	Fixed Temp heat detector (90°C)
5151RHAUS	ROR & Fixed heat detector (90°C)
B401	2-Wire Plug-In Detector Base
Accessories	
M02-04-01	Detector Test Magnet
M02-09-00	Telescoping Test Magnet
XR2B	Detector removal tool. Allows installation and / or removal of detector heads from base in high-ceiling installations
XP-4	Extension pole for XR2B. Comes in three 5 ft. sections.



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