

PERTRONIC INDUSTRIES LTD

DATASHEET

Conventional Heat Detectors

5151AUS, 5151RAUS, 5151HAUS, 5151RHAUS



Overview

The System Sensor 5151 Series Conventional Heat Detectors combine rate-of-rise (ROR) and fixed temperature operation to provide reliable detection of heat produced by fire.

These 2-wire detectors provide open-area protection and are designed and manufactured to comply with AS 7240.5-2004.

Model 5151AUS:

A low-temperature fixed-temperature heat detector. For use in areas normally below 50 °C where rapid ambient temperature changes may occur.

The 5151AUS replaces the 51B51 detector.

Model 5151RAUS:

A low-temperature heat detector featuring both fixed-temperature and rate-of-rise operation. For use in areas normally below 50°C where rapid ambient temperature changes are unlikely to occur.

The 5151RAUS replaces the 51A51 detector.

Model 5151HAUS:

A high-temperature heat detector featuring fixed-temperature operation. For use in areas normally below 80°C where rapid ambient temperature changes may occur.

The 5151HAUS replaces the 51D51 detector.

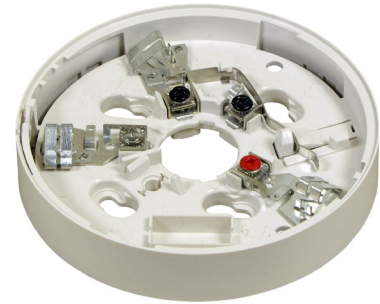
Model 5151RHAUS:

A high-temperature heat detector featuring both fixed temperature and rate-of-rise operation. For use in areas normally below 80°C where rapid ambient temperature changes are unlikely to occur.

The 5151RHAUS replaces the 51C51 detector.



5151 Series Detector



B401 Detector Base

Features

- » Dual red indicating LEDs for 360° visibility
- » Low standby current
- » Standard B401 Base with in-built shorting spring
- » In-built tamper resistant base
- » Optional Remote LED accessory
- » Independently tested and SAI Global StandardsMark certified to AS ISO 7240.5:2004

Specification

Operating Voltage	8.5 V dc to 35 V dc (with B401 detector base)	
Standby (Quiescent) Current	30 µA @ 24 V dc	
Alarm Current	10 mA to 130 mA (panel dependent)	
Alarm Voltage	4.2 V dc to 6.5 V dc	
Alarm Reset	Momentary Power Interruption	
Dimensions (Diameter x Height)	102 x 51 mm (including base)	
Ambient Installation Temperature Range	-10 °C to 50 °C	5151AUS & 5151RAUS
	-10 °C to 80 °C	5151HAUS & 5151RHAUS
Fixed Activation Temperature	63 °C	5151AUS & 5151RAUS
	90 °C	5151HAUS & 5151RHAUS
Humidity	10 % to 95 % RH, non-condensing	

Adapter Base Details:

Base Model	Loop Type	Current Limit Resistor	Nominal Voltage	Current Draw in Alarm (mA)
B401	2-wire	No	12/24 V dc	5 - 100*

* Alarm Current must be limited by the Control Panel detection circuit.

Ordering Information

Product Code	Description
5151AUS	Conventional Heat Detector – Fixed Temperature (63°C) Type B
5151RAUS	Conventional Heat Detector – ROR & Fixed Temperature (63°C) Type A
5151HAUS	Conventional Heat Detector – Fixed Temperature (90°C) Type D
5151RHAUS	Conventional Heat Detector – ROR & Fixed Temperature (90°C) Type C
B401	Conventional Detector Base

This information must not be treated as partial or complete instructions for the design, construction, installation, commissioning, or maintenance of fire detection, fire alarm, or building evacuation systems. Fire and evacuation systems must be designed and installed by properly qualified persons, in accordance with all regulatory requirements.

Unless explicitly stated otherwise, this information provides typical specifications and nominal dimensions. Actual product performance and dimensions may vary.

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