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.

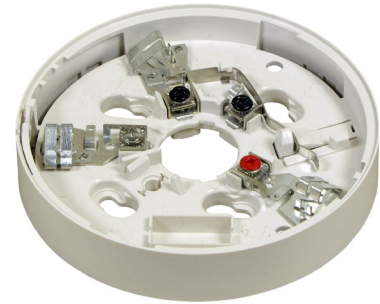The 5151HAUS replaces the 51D51 detector.

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