PERTRONIC INDUSTRIES LTD

DATASHEET

C Series Intelligent Addressable Heat Detectors
5251CPI-IV, 5251CPI-W
5251RCPI-IV, 5251RCPI-W

Overview

C series intelligent addressable heat detectors are available with fixed temperature alarm thresholds (5251CPI) and rate of rise alarm (5251RCPI).

The detectors measure the temperature in their surroundings and continually report this temperature measurement to the fire panel. The panel will initiate an alarm if the temperature measurement goes above the threshold defined in the panel configuration.

Rate-of-rise (ROR) heat detectors also send an alarm signal to the panel if the temperature increases rapidly. The rate of rise alarm is pre-configured in the detector.

A suitably configured fire panel will display the location of any detector which has triggered an alarm, fault, or maintenance signal.

C Series Intelligent Addressable Plug-In Heat Detector 5251CPI-W with B501AUS-W base

Features

- » Intelligent addressable (IA) communication with fire panel
- » Temperature threshold configurable in the fire panel
- » Rotary address switches for setting the address on the intelligent addressable loop
- » Fire panel identifies active detectors by lighting up two red LEDs on the detector housing
- » LEDs briefly light up ("blink") when the detector is polled
- » LED blink may be disabled via the fire panel configuration
- » Dual LEDs for visibility from all normal viewing angles
- » Optional remote LED indicator available (note 1)
- » Magnet test function activates detector and bypasses inbuilt delays to facilitate testing
- » Compatible with B501AUS, B501AP, and other System Sensor intelligent addressable bases
- » Compatible bases provide an optional anti-tamper feature
- » SAI Global StandardsMark listed to AS 7240.5, certificate SMHK25312
- » FPANZ Listings PI/267 (5251CPI-xx), PI/268 (5251RCPI-xx)

Specification

Operating Voltage	15 to 32 V dc
Average Standby Current	150 µA (note 2)
Maximum Alarm Current	2 mA (LEDs on)
Remote Output Voltage	22.5 V dc, no load (minimum)
Remote Output Current	10.5 mA (note 3)
Address Range F220, F120A	1 to 159
Address Range F100A	1 to 99
Diameter	103 mm (in B501AUS base)
Height	51 mm (in B501AUS base) 58 mm (in B524IEFT-1 base)
Weight	95 g
Operating Temperature	-10 °C to 50 °C
Humidity	10% to 93% RH non-condensing

Ordering Information

Product Code	Description
5251CPI-IV	IA Fixed Heat Detector, C Series, Ivory, excl Base
5251CPI-W	IA Fixed Heat Detector, C Series, White, excl Base
5251RCPI-IV	IA ROR Heat Detector, C Series, Ivory, excl Base
5251RCPI-W	IA ROR Heat Detector, C Series, White, excl Base
B501AUS-IV	IA Base, Ivory
B501AUS-W	IA Base, White
B524IEFT-1	IA Base with Isolator, Ivory

Alarm Thresholds in Pertronic Fire Panels

F100A		F220	
1	57 °C	1	53 °C
2	66 °C	0	57 °C
3	74 °C	-1	75 °C
4	84 °C	-2	83 °C

Notes

1. Please refer to the Remote Indicators RMIND (AU) or Remote LED Indicator DETREM (NZ) datasheets for details of Pertronic remote LED indicators.
2. Average standby (quiescent) current = 150 µA with LED blink enabled and one poll every five seconds.
3. Remote output current is specified with terminal 3 shorted to terminal 1
4. 5251CPI-xx and 5251RCPI-xx are designed for indoor use.
5. Manufactured for Pertronic Industries by System Sensor.

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