

# 5151 Series

## Conventional Plug-in Thermal Detectors

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System Sensor 5151 Series is designed to meet the stringent performance requirements of industrial and municipal fire detection/alarms systems.

The 5151 series combine electro-pneumatic technology (rate-of-rise operation) and electronic thermistor technology (fixed temperature operation) to provide reliable detection of heat produced by fire. Australian Standard A, B, C and D type detectors are available.

#### Model 51A51:

It is a low temperature heat detector featuring both fixed temperature and rate-of-rise for use in areas normally below 45°C without rapid temperature increases.

#### Model 51B51:

It is a low temperature heat detector featuring fixed temperature operation for use in areas normally below 45°C where rapid temperature changes may occur.









#### Model 51C51:

It is a low temperature heat detector featuring both fixed temperature and rate-of rise for use in areas normally below 75°C without rapid temperature increases may occur.

#### Model 51D51:

It is a low temperature heat detector featuring fixed temperature operation for use in areas normally below 75°C where rapid temperature changes may occur.

#### Features:

-  Sleek, low-profile design
-  Compatible with 100 Series product
-  Two alarm LED's, providing 360° visibility
-  Low current draw
-  Standard B401 base with built-in shorting spring
-  Built-in tamper resistant base design
-  Remote LED option
-  IP54 rating



**5151 Series Detector**

**B401 Base**

## Specifications:

🔍	Detection Principle:	Electro-pneumatic
🔍	Operating Voltage:	12 - 28V VDC (with 401 Base)
🔍	Alarm Current:	5 to 100mA (must be externally limited)
🔍	Alarm Voltage:	4.2 to 6.4 VDC
🔍	Standby Current:	85µA
🔍	Storage Temperature:	-20°C to 75°C
🔍	Humidity Range:	95% RH non-condensing
🔍	IP Rating:	IP54
🔍	Alarm Reset:	Momentary power interruption
🔍	Size:	53mm(H) x 104mm(W)
🔍	Ambient Temperature:	
	51A51 & 51B51:	-5°C to 45°C
	51C51 & 51D51:	-5°C to 75°C
🔍	Fixed Activation Temperature:	
	51A51 & 51B51:	60°C
	51C51 & 51D51:	90°C

## Base Adapter Details:

Base Model Number	Circuit Type	Current Limit Resistor	Nominal Voltage	Current Draw on Alarm (mA) (Current limited by panel)
B401	2-Wire	No	12/24 VDC	5 - 100

## Ordering Information:

Description	Part Number	Listing No.
60°C Fixed and Rate of Rise Heat Detector	51A51	afp1264
60°C Fixed Heat Detector	51B51	afp1621
90°C Fixed and Rate of Rise Heat Detector	51C51	afp1265
90°C Fixed Heat Detector	51D51	afp1622

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### PERTRONIC INDUSTRIES PTY LTD

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