

DISCOVERY THERMAL TYPE 'D' DETECTOR

Fixed Temperature

PDS201-0090-2-1

Description

Discovery heat detectors have a common profile with ionisation and optical smoke detectors but have a low air flow resistance case made of self-extinguishing white polycarbonate.

The Discovery heat detector fit into the XP95 mounting base.

Technical

The Discovery heat detector uses a single thermistor to sense the air temperature at the detector position. The thermistor is connected to a resistor network, which produces a voltage output dependent on temperature. The design of the resistor network, together with the processing algorithm in the micro-controller, gives an approximately linear characteristic from 10°C to 80°C. This linearised signal is further processed, depending on the response mode selected, and converted to an analogue output.

The detector is given an 'S' suffix indicating that the detector will not respond to below its minimum static response temperature even when exposed to high rates of rise of air temperature.

This type of detector is therefore suitable for areas such as kitchens and boiler rooms where large, rapid temperature changes are considered normal.

Applications

- Concealed roof spaces
- Warehouses
- Kitchen area

Specifications

Detector Type	Temperature sensitive resistance. 'D' – Fixed (95 °C)
Communication	Apollo Discovery
Supply Wiring	2 wire, polarity insensitive
Supply Voltage	14 to 28 volts
Quiescent current	500uA avg, 750uA peak
Alarm current	3.4 mA
Alarm analogue value	55
Remote Alarm o/p	5mA max
Storage Temperature	-30° C to 80° C
Humidity	0% to 95%
Approvals	C-Tick, SSL
Alarm Indicator	Twin red LED
Compatible Base	XP95 Universal Base
Product Code	201-0090

