

## APOLLO SERIES 60 THERMAL TYPE 'D' DETECTOR

Fixed Temperature

PDS201-0026

### Description

The Apollo Series 60 detectors are resettable and operate by using a matched pair of thermistors to sense heat. One thermistor is exposed to the ambient temperature, and the other is sealed. In normal conditions the two thermistors register similar temperatures, but on the development of a fire, the temperature recorded by the exposed thermistor will increase rapidly, resulting in an imbalance of the thermistors and causing the detector to change to the alarm state.

If the air temperature increases slowly, no significant temperature difference develops between the thermistors. However, at high temperatures a fixed value resistor, connected in series with the insulated thermistor becomes significant. When the sum of the resistances of the insulated thermistor and fixed resistance compared to the resistance of the exposed thermistor reaches a preset ratio, an alarm is initiated. The value of the fixed resistor is selected so that the detector goes into the alarm state at a specified 'fixed temperature' value.

When the detector is in alarm a red LED will illuminate.

### Electrical

The detector is designed to be connected to a two wire monitored supply operating at a nominal voltage of 24 volts dc.

Connection to the supply is made via a mounting base between terminals L1 and L2. Terminal L1 IN is a supply input terminal and it is connected to the terminal L1 OUT via the detector when fitted. L1 OUT and L2 provide the supply output to the next detector on the zone or to the end of line resistor. This method of connection permits continuous monitoring of the supply through the detector and the end of line resistor.

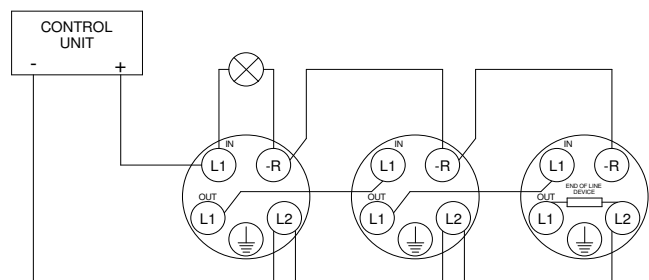
A remote alarm indicator may be connected between the positive supply line and the -R terminal. The -R terminal is diode gated to protect it against accidental connection to the negative supply and to permit the connection of more than one detector to a single remote indicator.

### Application

- Nursing Home
- Offices
- Kitchen area
- Lavatories



**Apollo Series 60 Thermal Detector**



**Wiring an Apollo Series 60 Detector**

### Technical Data

<b>Detector Type</b>	'D' – Fixed (95° C)
<b>Supply Wiring</b>	2 wire
<b>Supply Voltage</b>	17 to 28 volts
<b>Quiescent current</b>	55uA @ 24 volts
<b>Alarm current</b>	50 to 52 mA @ 24 volts
<b>Remote Alarm o/p</b>	23mA, diode gated
<b>Storage Temp.</b>	-30° C to 120° C
<b>Humidity</b>	0% to 95%
<b>Approvals</b>	C-Tick, SSL to AS1603 pt 1
<b>Product Code</b>	201-0026

*N.B.: It is highly recommended that the Apollo mounting block (Product Code 201-0101) is used for surface mounted detectors for correct fit and reliability.*