

## APOLLO SERIES 60 PHOTO OPTICAL DETECTOR

Point type conventional smoke detector

PDS201-0028

### Description

The Apollo Series 60 photo optical detector continuously monitors the environment for contamination of clean air by smoke particles. This facilitates early warning of incipient fires.

The Apollo Series 60 photo optical detector shares the same mechanical dimensions and colour to other detectors in the range. It would be mounted on a Apollo Series 60 universal detector base.

Inside the Series 60 photo optical detector lies a sensing chamber constructed from black plastic moulding and designed such that ambient light is blocked out. Within the chamber is an optical arrangement consisting of two main parts: an infra-red LED and a photo diode. The LED emits a burst collimated light every 10 seconds. In clear conditions the photo-diode will not receive light particles.

When smoke enters the chamber, it scatters photons onto the photo-diode to excite it into activity. The detector will emit further pulses to confirm smoke is still present. The detector will automatically switch to an alarm state when contamination of the sensing chamber is confirmed.



**SERIES 60 PHOTO OPTICAL DETECTOR**

### Electrical

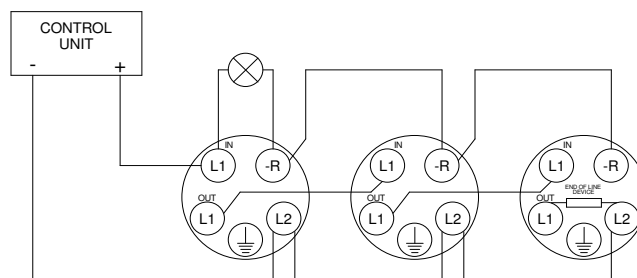
The detector is designed to be connected to a two wire monitored supply operating at a nominal voltage of 24 volts dc.

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.

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

- Computer rooms
- Warehouses
- Living area



**Wiring an Apollo Series 60 Detector**

### Specification

Detector Type	Photo optical smoke
Supply Wiring	2 wire
Supply Voltage	17 to 28 volts
Quiescent Current	45µA
Alarm Current	52mA
Remote Alarm o/p	30mA max diode gate
Operating Temperature	-10° C to 60° C
Humidity	0% to 95%
Approvals	C-Tick, SSL
Alarm Indicator	Clear LED – red when on
Product Code	201-0028

*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.*