

DP652

Apollo Series 65 Optical Smoke Detector (55000-317)

General

The 650 Series conventional detectors are designed for the highest effectiveness utilising the latest technology. A wide operating voltage (9 to 33 VDC) allows them to be used on any security system.

Ionisation Detectors

The detector sensor consists of 2 chambers - an open outer chamber and a semi-sealed reference chamber. As smoke enters the open chamber, the voltage difference between the chambers is measured and compared to a pre-set trigger level for alarm. An integrating ionisation detector, suitable for use in areas where transient levels of smoke may be present, is also available.

Optical Smoke Detectors

These detectors use a pulsing LED and photo diode in an dark optical chamber. In the event of smoke from a fire entering the chamber, the light from the LED is scattered and registered by the photo diode.

Series 650 Heat Detectors

Heat detectors normally use a matched pair of thermistors (one exposed and one sealed) to sense heat. In case of fire, the exposed thermistor's temperature increases rapidly, causing the detector to change into the alarm state because of the imbalance. Rate-of-rise algorithms may detect the fire as the temperature increases, but a fixed upper temperature limit will force the detector into alarm if the rate of temperature increase has been too slow. The static only response heat detectors use only one thermistor and changes to the alarm state at a preset temperature.

Standard Base

The base enables detectors to be plugged in without any need for force - particularly useful when fitting to suspended ceilings. The base has a "one way only" fit and are lockable. They contain no electronic parts that could be damaged during installation. The detectors are polarity insensitive and bases are easy to wire with an earth connector.



Details

- Advanced electronic technology
- Flashing LED option on selected units
- Polarity insensitive
- Common base
- Elegant slim-line design
- EN54 approved
- Proven detection performance
- May be used on security systems
- Wide range of bases available

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Technical specifications

Electrical

Operating voltage	9 to 33 VDC
Current consumption	30 to 50µA at 24 VDC (quiescent) 18 mA at 10 VDC (alarm) 52 mA at 24 VDC (alarm) 61 mA at 28 VDC (alarm)

Output

Remote alarm output	17 mA
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General

Status indication	Clear LED - red in alarm
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Physical

Physical dimensions	100 x 42 mm (Ø x H)
Net weight	99 g
Colour	White

Environmental

Operating temperature	-20 to +60°C (no condensation or icing)
Relative humidity	0 to 95% noncondensing
Environment	Indoor
IP rating	IP43

Standards & regulation

Certification	EN54-7
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Max. wind

Not affected

