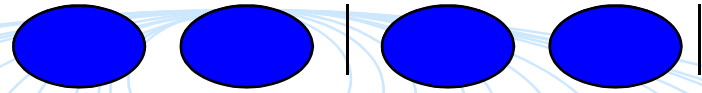


Discovery Optical Smoke Detector



For Discovery Protocol Analogue Addressable Control Panels

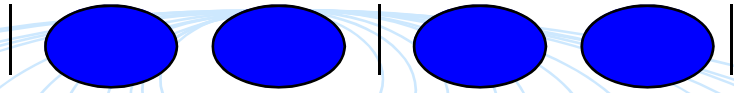


Key Features

- ◆ Ideal for use with Control Equipment's Discovery and Voyager analogue addressable control panels
- ◆ Designed to meet approvals world-wide
- ◆ Five sensitivity bands for different environmental conditions or varying usages at different times of the day or week
- ◆ Drift compensation to ensure the reported analogue count is not affected by extraneous factors such as contamination
- ◆ Dual LED indication for all round visibility
- ◆ Flashing LED in standby indicating that the detector is being polled
- ◆ Automatic addressing with the patented XPERT card
- ◆ Electronics-free base
- ◆ Ease of installation
- ◆ Elegant design and a sleek shape - pure white polycarbonate finish

From the UK's leading control panel manufacturer





Introduction

The Discovery detector range comprises of ionisation and optical smoke detectors, a heat detector and a multi-sensor detector, all with enhanced performance, high reliability and elegant shape. Discovery takes the advanced features of XP95 and adds new dimensions of sophistication. The protocol ensures adaptability and flexibility to changing conditions and enhanced protection against unwanted alarms.

The Discovery optical detector has a moulded white polycarbonate case with wind-resistant smoke inlets. Within the case is a printed circuit board; on one side it has the light proof chamber with internal gauze surrounding the optical measuring system. The other side has the address capture and communicating electronics.

An infra-red LED within the optical chamber is arranged at an obtuse angle to a photo-diode. The photo-diode has an integral daylight-blocking filter. In clear air the photo-diode receives no light directly from the IR LED. When smoke enters the chamber it scatters light from the IR LED onto the photo-diode in an amount related to the smoke characteristics and density. The photo-diode signal is processed to provide an analogue value for transmission when the detector is interrogated.

Technical Specifications

Size of Detector:	42mm high x 100mm diameter
Size of Detector in Base:	50mm high x 100mm diameter
Supply Voltage:	14-28V DC
Quiescent Current:	400 μ A average, 650 μ A peak
Alarm Current:	3.4mA
Alarm Indication:	2 Clear LEDs, Red in alarm

Part Numbers

2501/271	Discovery Optical Smoke Detector (58000-600)
2501/020	XP95 Detector base (45681-210)

From the UK's leading control panel manufacturer

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