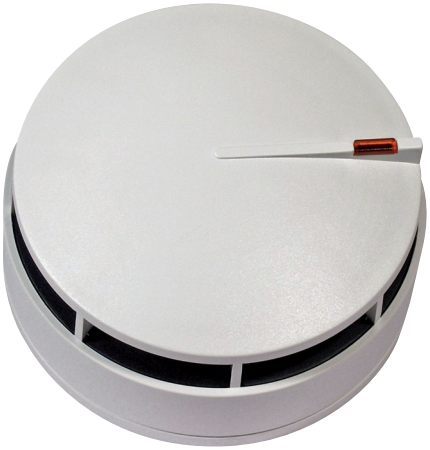

DOD-220

Conventional Optical Smoke Detector

Description

The new 200 series of conventional detectors has been developed using the most innovative technical advances. Its completely new design makes the 200 series one of the most elegant on the market, ideal for facilities in which the balance between functionality and aesthetics is necessary.

The range of 200 series conventional detectors is made up of 4 detector model types. They are a 58ºC rise-of-rate detector, a 78ºC heat detector, an optical detector and an optical-heat detector. All of them are compatible with DETNOV's conventional control panels and analogue monitor units, and with the majority of the conventional panels on the market.

The DOD-220 smoke detector is based in an optical dark chamber, which, thanks to its design, avoids unwanted air flows and facilitates the guidance of the smoke to the sensor. The detection principle is based on the Tyndall effect: when the smoke comes into the optical chamber, the detector goes into alarm status due to the scattered light received by the optical sensor. The camera is protected to avoid the entrance of dirt and insects. This detector also incorporates compensation algorithms which avoid false alarms due to the dirtiness of the optical chamber, and it postpones equipment maintenance.

The 200 series detectors require the Z-200 base in order to connect. This connection base includes a blocking option which avoids it being tampered with. A tool is needed to remove the detector once it is blocked.

Detectors in this series have non-polarity technology, facilitating system wiring and saving a huge amount of time in commissioning the system.

The protected area is 60 m^2 and the maximum installation height is 12 meters.

Characteristics

- Elegant design and low profile
- Dirtiness compensation
- Dirtiness and insect protection
- Two-wire connection without polarity
- Remote indicator port
- Compatible with any conventional fire control panel
- EN54-7 approved

Applications

DOD-220 smoke detectors are suitable for those areas in a fire detection system in which a fire will cause more heat than smoke, or in which the daily activity temperature is usually very high.

Technical features

Detector		
	Operating voltage: From 9 to 28VCC	
	Quiescent current consumption: < 100 µA	
	Alarm current consumption: < 100 mA	
Connections		
	2 x 1.5 mm^2 twisted and shielded cable to a Z-200 base	
Environment		
	Operating temperature:	From -10ºC to +70ºC
	Relative humidity: 95% without condensation	
	IP index: IP40	
Physical features:		
	Head (height x Ø): 40 mm x 100 mm	
	Base (height x Ø): 5 mm x 100 mm	
	Material: ABS	
Approvals		
	EN54-7	
	Certificate number: 0370-CPD-0880	

Dimensions