



DOTD-230

Conventional Heat and 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 58°C rise-of-rate detector, a 78°C 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 DOTD-230 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 DOTD-230 high-heat detector also incorporates a temperature sensor that detects a quick temperature increase in a period of time, or a temperature higher than 58°C.

In both the cases of detecting smoke and detecting heat the heat detector will go into alarm state, and the detector's integrated LED will light up.

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 m² and the maximum installation height is 12 meters.

Features

- Elegant design and low profile
- Dirtiness compensation
- Dirtiness and insect protection
- Heat rise-of-rate function
- 58°C static alarm function
- Two-wire connection without polarity
- Remote indicator port
- Compatible with any conventional fire control panel
- EN54-5 and EN54-7 approved

Applications

DOTD-230 detectors are suitable for any fire-protected area, because its double technology (smoke & heat) can detect any kind of fire.

Technical features

Detector	
Operating voltage:	From 9 to 28VCC
Quiescent current consumption:	< 120 μ A
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 -10°C to +70°C
Relative humidity:	95% without condensation
IP index:	IP40
Physical features:	
Head (height x Ø):	48 mm x 100 mm
Base (height x Ø):	5 mm x 100 mm
Material:	ABS
Approvals	
EN54-5 and EN54-7	
Certificate number: 0370-CPD-2006	

Dimensions

