DOTD-230
Conventional dual heat and smoke detector

Description

The 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.

Detnov's 200 range of conventional detectors is made up of 4 detector types. There 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 CCD-100 and ECO families of conventional control panels.

The DOTD-230A optical-heat 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 optical sensor. The detection principle is based on Tyndall's effect; the detector goes into alarm status due to the scattered light caused by the smoke particles being 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 dirtiness of the optical chamber, postponing equipment maintenance.

The DOTD-230A high-heat detector also incorporates a temperature sensor that detects a quick temperature increase in a period of time, or a temperature higher than 58ºC. 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 from the base.

Detectors without isolator have non-polarity technology, facilitating system wiring and saving a huge amount of time in commissioning the system.

Available in black color: DOTD-230-B

Features

o   Elegant design and low profile
o   Dirtiness compensation
o   Dirtiness and insect protection
o   Rise-of-rate function
o   58 ºC static alarm function
o   Two-wire connection without polarity
o   Remote indicator port
o   Compatible with any conventional control panel
o   EN 54-5 and EN 54-7 approved

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Applications

Detnov's complete range of 200 series detectors allow reliable fire detection thanks to its advanced analysis technology. Depending on the risk to be protected, you will have to choose the topology of the sensor of the detector, you can choose between: optical, thermal, thermovelocimetric or the combination of said sensors. Detnov's fire detector has been developed to ensure a quick reaction to fires, meeting the highest quality standards and certification required in the market. A unique reliability when detecting and protecting installations to reduce false alarms, being suitable for the most demanding applications.

Technical features

Detector		
	Operating voltage:	From 9 to 38VDC
	Quiescent current consumption :	< 100 μA
	Alarm current consumption:	< 100 mA
Connections		
	2 x 1,5 mm^2 twisted cable to a Z-200 base	
Environment		
	Operating temperature:	From -10ºC to +70ºC
	Relative humidity:	95% without condensation
	IP Index:	IP20
Physical features		
	Head (height x Ø):	42 mm x 100 mm
	Base (height x Ø):	5 mm x 100 mm
	Material:	ABS
Approvals		
	EN54-5 and EN54-7	
	Certificate number:	0370-CPR-2006

Dimensions

48mm

100mm

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