DP991T

Apollo Discovery multi-sensor (58000-700)

General

The DP991T is an elegant, slim-line, optical/heat multi-sensor with high performance analogue addressable features. Compensation for sensor drift is included as part of the internal signal-processing algorithm.

Operating Principles

The DP991T multisensor detector contains an optical smoke sensor and a temperature sensor whose outputs are combined to give the final decision of a possible fire situation. The way in which the signals from the two sensors are combined depends on the response mode selected. Five operating modes provide response behaviour which incorporates pure heat detection, pure smoke detection and a combination of both. The multisensor is therefore useful over the widest range of applications.

Unique Addressing

A unique, patented addressing method provides simple, user-friendly and accurate identification of monitor location whereby a coded card, inserted in the base, is read by any monitor as it is plugged in. All the electronic components are in the monitor, but the location information is held in the base. Addressing errors during maintenance and service are eliminated. Precoded and pre-numbered address cards are also available. These address cards simplify and speed up installation and commissioning.



Details

- 5 Approved response modes for ease of optimisation to different environments
- Rejection of transient signals
- Drift compensation to ensure constant sensitivity
- 360° Alarm visibility
- Flashing LED option
- Fast alarm reporting
- EN54 approved and CPR certified

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Technical specifications

General

Status indication	2 clear LEDs (red in alarm)
Compatibility	Addressable panels with 900 series (Apollo) support
Alarm levels	5
Connectivity	2-wire loop
Addressing method	Card Addressing

Electrical

Power supply type	Loop powered
Operating voltage	17 to 28 VDC
Communication voltage	5 - 9 V (peak to peak)
Current consumption	400 µA (quiescent) 3.5 mA (alarm)

Detection

Detection principle	Optical light scatter and heat
Monitoring	Alarm threshold, Contamination level
Air velocity	No effect

Output

Output quantity	1
Output type and rating	Remote LED output 5 mA
Programmable	Yes

Physical

Physical dimensions	50 x 100 (H x Ø)
Net weight	105 g
Colour	White
Mounting type	Base mount
Material (body)	Polycarbonate

Environmental

Vandal proof	No
Operating temperature	-20 to +60°C
Storage temperature	-40 to +70°C
Relative humidity	0 to 95% noncondensing
Environment	Indoor
IP rating	IP44

Regulatory

Compliancy	CE, REACH, RoHS, WEEE
Certification	CPR
Standards	EN54:5, EN54-7

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