DP991

Apollo Discovery Optical Detector (58000-600)

General

The DP991 is an elegant, slim-line, optical sensor with high performance analogue addressable features. Compensation for sensor drift is included as part of the internal signal-processing algorithm.

Optical smoke monitor

The optical smoke detectors has an internal pulsing LED and a photo-diode at an obtuse angle. In clear air conditions the photo-diode in the monitor receives no light from the LED and produces a corresponding analogue signal. This signal increases when smoke enters the chamber and light is scattered onto the photodiode. The signal is processed by the electronic circuitry and transmitted to the control equipment in exactly the same way as in the case of the ionisation smoke monitor.

Drift compensation

The drift compensation algorithm will compensate for changes in sensor output caused, for example, by dust in the chamber, and will therefore hold the sensitivity at a constant level even with severe chamber contamination. This increased stability is achieved without significantly affecting the detector's sensitivity to fire.

Compensation values are stored in nonvolatile memory and will be retained even if detectors are disconnected.

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.



Détails

- 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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Spécifications techniques

Général

Indication d'état	2 clear LEDs (red in alarm)
Compatibilité	Addressable panels with 900 series (Apollo) support
Niveaux d’alarme	5
Connectivity	2-wire loop
Méthode d'adressage	Card Addressing

Électrique

Type de bloc d’alimentation	Alimenté en boucle
Operating voltage	17 to 28 VDC
Tension de communication	5 to 9 V (peak to peak)
Consommation de courant	300 µA (quiescent) 3.5 mA (alarm)

Détection

Detection principle	Optical light scatter
Contrôle	Alarm threshold, Contamination level
Air velocity	No effect

Sortie

Quantité des sorties	1
Type de sortie et classe	Remote LED output (<5 mA)
Programmable	Yes

Caractéristiques physiques

Dimensions physiques	100 x 42 mm (Ø x H)
Net weight	105 g
Couleur	Blanc
Type de montage	Assemblage sur socle
Matériel (boîte)	Polycarbonate

Environnement

Protégé contre le vandalisme	Non
Operating temperature	-20 to +60°C
Température de stockage	-40 to +70°C
Relative humidity	0 to 95% noncondensing
Environnement	Intérieur
IP rating	IP44

Régulateur

Compliancy	CE, REACH, RoHS 3, WEEE
Certification	CPR
Normes	EN54:7

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