FD2710R

2000 series addressable reflective beam detector 50 - 100 m

General

The FD2710R provides an integral, loop powered analogue addressable reflective beam detector up to 100 m distance.

Configuration

The FD2710R consist of an infrared transmitter and receiver in one single compact housing. The infrared signal is reflected by a prism and analysed for smoke presence. It is particularly designed to be use where point smoke detectors are not practical due to height or inaccessibility.

The FD27xxR series units are loop powered for connection to 1200/2000 series fire panels. They use the Aritech 2000 series protocol.

Installer friendly

Wiring is restricted to a minimum as the transmitter and receiver are in the same housing. The detector is very easily aligned by means of checking the alignment LEDs. Easy alignment ensures optimum operation, both electrically and mechanically. The unit is easily tested using the graduated obscuration test card supplied.

The low power consumption of the units allows multiple beams to be powered on the same loop without compromising the system's autonomy.

Reducing false alarms

Various alarm thresholds may be selected from to suit the environment. If the signal reduces to below the selected threshold and is present for ±10 seconds, a fire condition is signalled. If the infrared beam is obscured rapidly to a level of 90 % or greater for ±10 seconds, a fault condition is signalled. The detector monitors long term degradation of signal strength caused by component ageing or build up of dirt on optical surfaces.



Détails

- Loop powered
- Up to ceiling heights of 25 m
- Low current consumption
- 3 selectable alarm thresholds
- Self check and automatic contamination compensation
- Automatic discrimination between fire and fault
- Vertical or horizontal mount
- Easy wiring and unique alignment
- Microprocessor controlled
- Conforms to BS5839 part 5 and EN54

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Spécifications techniques

Général

Indication d'état	LEDs
Compatibilité	Aritech 2000 series systems
Niveaux d’alarme	3
Connectivité	2-wire loop
Méthode d'adressage	DIP Switches

Électrique

Type de bloc d’alimentation	Alimenté en boucle
Tension de fonctionnement	17 to 28 VDC
Consommation de courant	5 mA (Quiescent) 14 mA (Alarm) 10 mA (Fault) 22 mA (Alignment mode)

Détection

Principe de détection	Optical light scatter
Zone de couverture	<1500 m²
Gamme	50 to 100 m
Détection latérale	7.5 m
Longueur d'onde de portée	880 nm
Hauteur d’installation	< 25 m
Misalignment tolerance	Detector ± 0.4°, Prism ± 5.0° (@ 25%)

Caractéristiques physiques

Dimensions physiques	130 x 210 x 120 mm(W x H x D)
Poids net	770 g
Couleur	Noir, GrisGris
Type de montage	Fixation murale
Matériel (contacts)	ABS ignifuge

Environnement

Protégé contre le vandalisme	Non
Température de fonctionnement	-10 to 55°C (32 to 100°F)
Humidité relative	93% (non-condensing)
Environnement	Intérieur
Indice de protection	IP50

Régulateur

Conformité	CE, REACH, RoHS 3, WEEE
Certification	CPR
Normes	EN54:12

Produits compatibles

Catégorie	Référence	Description
Module de détection	FD-MB10	Mounting Bracket For Use With FD700, FD900, FD2700 And FDR-EZ Series
Module de détection	OR2000	Réflecteur optique, 10 x 10 cm

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Last updated on 12 March 2026 - 16:42