NC-DBO

Conventional reflective beam detector

General

The NC-DBO is a reflective infrared beam smoke detector for use in conventional fire detection systems. Being microprocessor based, the detector offers extensive algorithms for analysis and decision making. Taking ambient operating conditions into consideration, system adjustments such as drift compensation and alarm and fault analysis are automatic. The sensitivity of the detector is adjustable to suit various application conditions.

Operating mode

When connected to a compatible fire alarm system, fire and fault information is reported via potential free relay contacts that can be easily interfaced into the system.

Installation

The number of reflectors in a system varies depending on the required operating distance (detection range) of the detector. Optical reflectors from 1 to 4 provide an effective range of the detector between 5 and 100 m. Four reflectors are supplied with the beam. The detection range of the beam can be selected from 4 levels with the hand held programmer (NC-D-PT). For very short range detection (>10 m), a non reflective mask (NRM9105) is recommended to attenuate the reflector.

Applications

The NC-DBO is particularly suitable for use in historical buildings, warehouses, large storage areas, shopping malls, leisure centres, exhibition halls, hotel lobbies, printing houses, clothing factories, museums and prisons.



Détails

- Wide operating voltage range
- Large protection area
- Combination of transmitter & receiver in one housing allows for easy installation and optical alignment
- Intelligent microprocessor based decision making on fire and fault statuses
- Easy alignment and commissioning with onboard laser and signal level indication
- Self-diagnostics for monitoring & reporting internal failures
- Automatic drift compensation compensates for changing environmental conditions, dust and dirt accumulation, building movement and changing internal component specifications due to ageing
- Onboard N/O fire and N/C fault dry contact outputs for easy supervision
- Four selectable sensitivity levels for wide application coverage

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Spécifications techniques

Général

Indication d'état	LEDs
Compatibilité	All fire alarm systems with input supervision
Niveaux d’alarme	4
Connectivité	Relay contacts

Électrique

Type de bloc d’alimentation	24 VDC
Tension de fonctionnement	18 to 28 VDC (24 VDC nominal)
Consommation de courant	≤20 mA (Commissioning) ≤12 mA (Standby) ≤22 mA (Alarm)
Spécification du câble	>1.5 mm² for DC power, >1.0 mm² twisted for others
Nbre de fils conducteur	2
Bornes	6

Détection

Principe de détection	Optical light scatter
Contrôle	Alarm threshold, Fault
Sensibilité	1.3 to 2.8 dB, (26 to 48% OBS) selectable
Zone de couverture	<1400 m²
Longueur de la zone	<100 m
Gamme	5 to 100 m
Détection latérale	14 m
Adjustment angle	-6 to +6°
Misalignment tolerance	±0.5°

Sortie

Quantité des sorties	2
Type de sortie et classe	Alarm, Fault (2A @ 28 VD)

Caractéristiques physiques

Dimensions physiques	95 x 206 x 95 mm (W x H x D)
Poids à l'expédition	450 g
Couleur	GrisGris
Type de montage	Fixation murale
Entrées de câble	2
Matériel (boîte)	ABS

Environnement

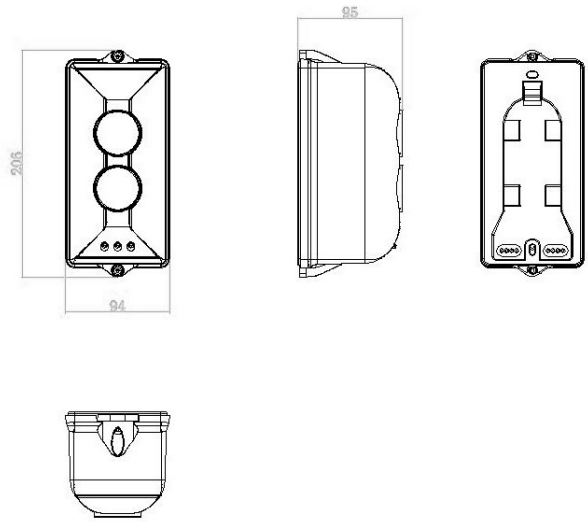
Protégé contre le vandalisme	Non
Température de fonctionnement	-10 to +50°C
Température de stockage	-20 to +60°C
Humidité relative	10 to 95% noncondensing
Environnement	Intérieur
Indice de protection	IP20 IP66 with silicone seal

Régulateur

Conformité	CE, REACH, RoHS 3, WEEE
Certification	CPR
Voluntary marks	BOSEC
Normes	EN54-12

Produits compatibles

Catégorie	Référence	Description
Module de détection	NC-D-PT	
Supports de montage	NRM9105	



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Last updated on 18 June 2026 - 13:28