NC-DBO

Detetor beam convencional com refletor

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.



Detalhes

- Ampla gama de tensões de funcionamento
- Proteção de ampla área
- A combinação do transmissor e do recetor numa única caixa permite uma instalação e alinhamento fáceis
- Decisão inteligente de estado de alarme e avaria com base em microprocessador
- Fácil alinhamento e colocação em funcionamento com laser incorporado e indicação do nível de sinal
- Auto-diagnóstico para monitorizar e comunicar falhas internas
- A função “drift compensation” permite compensar a alteração das condições ambientais, a acumulação de pó e sujidade, o movimento dos edifícios e a alteração das especificações dos componentes internos devido ao envelhecimento
- Saídas de alarme por contato seco NA e de falha por NF para uma fácil supervisão
- Quatro níveis de sensibilidade selecionáveis para uma ampla cobertura de aplicações

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Especificações técnicas

General

Status indication	LEDs
Compatibility	Todos sistema de alarme com entradas supervisionadas
Alarm levels	4
Connectivity	Relé

Electrical

Power supply type	24 VDC
Operating voltage	18 a 28 VDC (24 VDC nominal)
Current consumption	≤20 mA (Commissioning) ≤12 mA (Standby) ≤22 mA (Alarm)
Cable specification	>1.5 mm² for DC power, >1.0 mm² twisted for others
No. of cable cores	2
Terminals	6

Detection

Detection principle	Optical light scatter
Monitoring	Alarm threshold, Fault
Sensitivity	1.3 to 2.8 dB, (26 to 48% OBS) selectable
Coverage area	<1400 m²
Zone length	<100 m
Range	5 to 100 m
Lateral detection	14 m
Adjustment angle	-6 to +6°
Misalignment tolerance	±0.5°

Output

Output quantity	2
Output type and rating	Alarm, Fault (2A @ 28 VD)

Physical

Physical dimensions	95 x 206 x 95 mm (W x H x D)
Shipping weight	450 g
Colour	Grey
Mounting type	Wall mount
Cable entries	2
Material (body)	ABS

Environmental

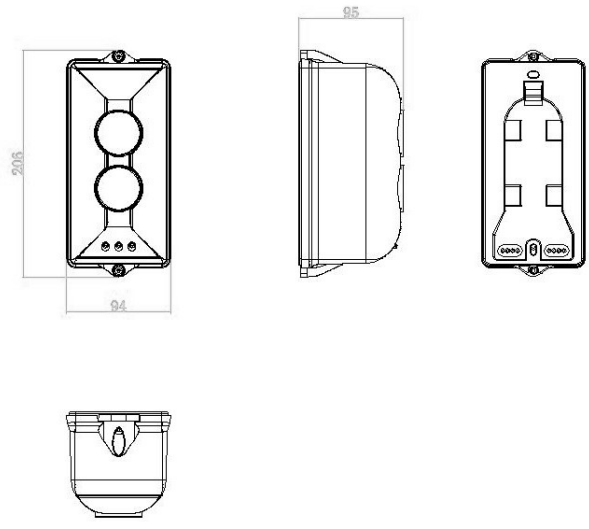
Vandal proof	No
Operating temperature	-10 to +50°C
Storage temperature	-20 to +60°C
Relative humidity	10 to 95% noncondensing
Environment	Indoor
IP rating	IP20 IP66 with silicone seal

Regulatory

Compliancy	CE, REACH, RoHS 3, WEEE
Certification	CPR
Voluntary marks	BOSEC
Standards	EN54-12

Produtos compatíveis

Categoria	Referência	Descrição
Detection device	NC-D-PT	Programador dispositivos
Mounting Accessories	NRM9105	Non-reflective mask for 9105 series beam detectors



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