

DC-9105E

Conventional reflective beam detector

General

The DC-9105E 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 conventional 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 standard GST hand held programmer (P-9910B). For very short range detection (>10 m), a non reflective mask (NRM9105) is recommended to attenuate the reflector.

Applications

The DC-9105E 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.



Details

- Wide operating voltage range
- Large protection areas
- 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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Technical specifications

General

Indicación de estado	LEDs
Compatibilidad	Compatible conventional fire alarm systems
Conectividad	Relay contacts

Eléctrico

Tipo de fuente de alimentación	24 VCC
Voltaje de funcionamiento	18 to 28 V (24 VDC Nominal)
Consumo de corriente	≤20 mA (Commissioning) ≤12 mA (Standby) ≤22 mA (Alarm)
Especificaciones del cable	>1.5 mm ² for DC power, >1.0 mm ² twisted for others
No. de núcleos de cable	2
Terminales	6

Detección

Principio de detección	Optical light scatter
Monitoring	Alarm threshold, Fault
Sensibilidad	1.3 to 2.8 dB, selectable
Coverage area	1400 m ²
Longitud de la zona	<100 m
Rango	5 to 100 m
Detección lateral	14 m
Adjustment angle	-6 to +6°
Misalignment tolerance	±0.5°

Salida

Cantidad de salidas	2
Ratio y tipo de salida	Alarm, Fault

Físico

Dimensiones físicas	95 x 206 x 95 mm (W x H x D)
Peso de envío	450 g
Color	Gris
Tipo de Montaje	Montaje en pared
Entradas de cable	2
Material	ABS

Medioambiental

Antivandálico	No
Temperatura de funcionamiento	-10 to +50°C
Temperatura de almacenamiento	-20 to +60°C
Humedad relativa	≤95% noncondensing
Entorno	Interior
Clasificación IP	IP20 IP66 with glue seal

Regulatory

Cumplimiento	CE, REACH, RoHS 3, WEEE
Certificación	CPR
Normativas	EN54-12



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Last updated on 5 May 2023 - 10:39