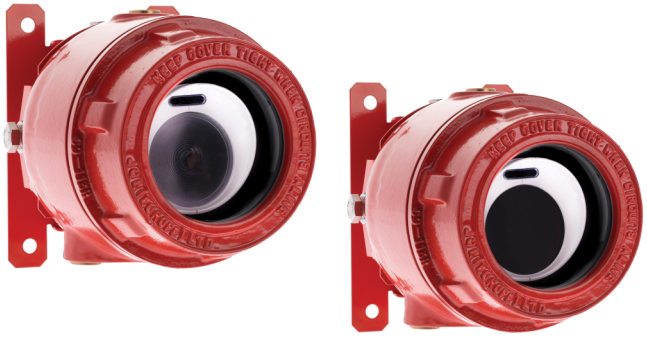
3000-026

Additional detector set for 3000-015 system

3000-026 is an additional detector set for the 3000-115 End-to-End Explosive Proof Beam Smoke Detector. 3000-026 comprises of an infrared transmitter and a receiver, both of which are ATEX-certified for use in Group 2 hazardous areas.



Operation

The Transmitter head emits a narrow beam of infra-red light to an associated Receiver head. Once smoke crosses through and thus obscures the IR beam path, the signal strength at the Receiver drops below a preset level which in turn results in an alarm condition.

It has been designed so that it can be installed by a single Engineer, with its laser assisted alignment method combined with easy to use alignment LEDs offering visual feedback. Integrated laser alignment aid can be activated at the Controller.

It also has a feature which allows for the Transmitter to be powered from the Controller by wiring directly, thus reducing the number of power supplies required.

Details

- Seperate transmitter and receiver unit certified to Exd
- Separate fire and fault relays per detector
- Range 5 to 80m, configurable per set of detectors
- Integral laser alignment in receiver
- Low current consumption
- Programmable sensitivity and fire/fault delay
- Contamination compensation for dust and building movement
- Transmitter can be powered from controller
- ATEX, IECEx, EN54:12, VdS Approved
- Light cancellation technology

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Technical specifications

General

Status indication	Receiver: Alignment LEDs for single person alignment
Reset time	Power Down: >20 s

Electrical

Operating voltage	12 to 36 VDC +/-10%
Current consumption	8 mA (per transmitter)

Detection

Optical wave length	850 nm

Physical

Physical dimensions	172 x 149 x 190 mm (incl. bracket), Transmitter/Receiver
Net weight	3.7 Kg (incl. bracket)
Mounting type	Wall mount

Environmental

Operating temperature	-20 to 55°C, noncondensing
Relative humidity	93%, noncondensing
Environment	Exd
IP rating	IP66, Transmitter/Receiver

Regulatory

Certification	CENELEC/ATEX

Fire and Fault Relay Contacts

	2A @ 30Vdc resistive

Housing Material

Transmitter/Receiver	Aluminium Alloy LM25, red
Bracket	Steel, red

Parts List

	Transmitter (clear lens), receiver (dark lens), fixing kit, two brackets

Alarm & Operation Thresholds

Delay to Alarm/Fault	Min: 2sec; Typ: 10sec; Max: 30sec (selectable in 1sec steps)
Laser Time-out	Min: 1min; Typ: 5min; Max: 59min (selectable in 1min steps)
Response Sensitivity/Threshold	Min: 25%; Typ: 35%; Max: 60% (selectable in 1% steps)

Certifications

EN54:12 and ATEX	Ex II 2GD
	Ex db op is IIC T6 Gb
	Ex tb IIIC T85C Db

Compatible products

Category	Reference	Description
Detection device	3000-115	End-to-end flame proof beam detector system

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