United Technologies
Climate | Controls | Security

3000-026

Additional Detector Set For End-To-End Beam Smoke Detector 5-100M, Flame Proof

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.

The product is designed for large enclosures within oil rigs, refineries, ordnance stores and similar premises. It provides an early warning of smoldering or strongly smoke-generative fires, which may not be picked up by flame detectors installed in many hazardous areas.The end-to-end beam smoke detector, together with a battery backed power supply, can be connected to a zone of a conventional fire alarm control panel or interfaced to an analogue-addressable system via an addressable
input module or a zone monitor module.

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 100m, 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

3000-026
Additional Detector Set For End-To-End Beam Smoke Detector 5-100M, Flame Proof

Technical specifications

Physical

Physical dimensions	172 x 149 x 190 mm (incl. bracket)
Net weight	3.7 Kg (incl. bracket)

Environmental

Environment	Exd
Operating Temperature	-20 to 55 °C (non-condensing)
Relative Humidity	93% (non-condensing)

Standards & regulation

Certification	CENELEC/ATEX

Operating Voltage

	12 - 36 VDC +/-10%

Operating Current

Transmitter	8mA (per transmitter)

Power Down Reset Time

	>20 seconds

Fire and Fault Relay Contacts

	2A @ 30Vdc resistive

Optical Wavelength

	850nm

Size

Transmitter/Receiver	172 x 149 x 190 mm (incl. bracket)

Weight

Transmitter/Receiver	3.7 Kg (incl. bracket)

IP Rating

Transmitter/Receiver	IP 66

Housing Material

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

LED Indications

Receiver	Alignment LEDs for single person alignment

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

United Technologies
Climate | Controls | Security