ATEX SMOKE LIGHT BARRIER

AE/BO3000EX

Description

The AE / BO3000EX Detector is the ideal solution to protect large surfaces from atmospheres of high risk of explosion.

It consists of a transmitter and a receiver, both ATEX certificates, for use in dangerous areas of Group 2. It also has a remote control unit that is installed at ground level allowing immediate access to adjustments or tests from a free zone risky.

The product is designed for large decks within oil rigs, refineries, munitions warehouses and similar premises. It provides an early alarm for latent fires or high smoke fires, which cannot be detected by flame detectors installed in hazardous areas.

Characteristics

- Independent units of transmitter and receiver certified Exd.
- Allows two sets of receiver and transmitter per system controller. Second game model AE / BO3000EX-ER.
- Independent alarm and fault relays per detector
- Coverage range from 5 to 100 meters configurable in each detector
- Integrated laser for alignment in the receiver
- 2-wire interface between controller and receiver
- Ground level remote control unit with LCD display (safe area)
- Alarm delay and configurable fault sensitivity
- Compensation for dust contamination and structure movements
- Multiple preformed cable glands for easy wiring

Umbrales de alarmas y servicio	Mín.	Típica	Max.
Retardo de alarma/fallo (seleccionable por seg)	2 seg	10 seg	30 seg
Láser Time-out (seleccionable por min)	1min	5min	59min
Sensibilidad de respuesta/umbral (seleccionable por porcentajes %)	25%	35%	60%

Operation

- The transmitter emits a narrow beam of infrared (IR) light to the associated receiver. Once the smoke crosses and obscures the path of the IR beam, the signal strength in the receiver drops below a preset level which in turn results in an alarm condition.
- Designed so that it can be installed by a single person, with its easy alignment method using the built-in laser, which can be activated from the controller.
- It has a function that allows the transmitter to be powered from the controller by wiring directly thus reducing the number of power supplies required.
- The ground level controller incorporates an LCD screen, which offers an icon-based interface for easy interpretation.
- This controller makes commissioning, testing and maintenance of the linear detection system easier. During commissioning the sensitivity thresholds can be selected as well as the alarm or fault delay times.
- Fully compatible with RoHS and WEEE requirements.
- AE / BO3000EX comes with type E cable glands (double compression for shielded cables) certified by VdS

TECHNICAL CHARACTERISTICS

Operating range: 5 to 100 meters
Operating voltage range: 12 to 36V DC ± 10%
Operating current of the controller
(with 1 or 2 receivers): 14mA (constant)
Transmitter current: 8mA (per transmitter)
Reset time: > 20 seconds
Alarm and fault contacts: VFCO 2A @ 30 volts DC resistive
Operating temperature (without condensation): -10 ° C to + 55 ° C
Optical wavelength: 850nm
LED indications:
Control unit: Red = Fire, Yellow = Breakdown, Green = System ok
Receiver: LED laser alignment with one person
IP Protection: IP54 (Controller)
IP66 (transmitter and receiver)
Relative humidity (without condensation): 93%
Components (System) - (product code: 3000-115):
1x transmitter (transparent lens)
1x receiver (dark lens)
1x control unit
1x fixing kit
2x brackets
Components (additional detector) - (product code: 3000-026):
1x transmitter (transparent lens)
1x receiver (dark lens)
1x fixing kit
2x brackets
Housing material: Controller: UL92 V2 PC
Transmitter and receiver: LM25 aluminum free copper alloy red color
Support: steel, red color
E3WBF Exd cable gland inputs: 3 x 20mm
CPD References: 0786-CPD-21162

CERTIFICATIONS

Global certifications include EN54-12 y TEX.
Ex II 2GD
Ex db op is IIC T6 Gb
Ex tb IIIC T85°C Db