

INTRINSICALLY SAFE OPTICAL DETECTOR

AE/IS-DOP

Description

Low profile intrinsically safe optical smoke detector.

Optical smoke detectors work on the principle of scattered light and allow you to respond to a wide spectrum of fires.

Calibrated to be highly reliable and not generate false alarms:

- Improved sensitivity to black smoke
- Compensation for slow changes in sensitivity
- Extra confirmation of smoke before an alarm signal is given.

Base for intrinsically safe detectors AE/IS-B

The intrinsically safe AE/IS-B base has been designed for quick and easy installation, with captive screws.

The base is supplied with the screws unscrewed to avoid unnecessary work for the installer.

It is required that all the detectors are placed with their LEDs in the same direction, the bases must be installed on the ceiling respecting the mark on the outside that indicates the position of the LED.

- Grouped terminals to facilitate wiring
- Multiple fixing centers
- LED alignment mark
- Wire Stripping Guide



TECHNICAL CHARACTERISTICS

Sampling rate:	Once every four seconds
Operating voltage:	14.8 VDC to 28 VDC
Power wiring	Two-wire power, polarity sensitive
Polarity reversal:	Not allowed
Ignition time	< 20 seconds
Minimum Voltage 'active detector'	12 volts
Starting overcurrent at 24V	105 μ A
Average quiescent current at 24 V	85 μ A
Alarm load	325 Ω in series with a 1.0 V drop
voltage min. maintenance	5 V
min voltage to turn on alarm LED	6 volts
Alarm reset voltage	< 1 V
Alarm reset time	One second
Alarm indicator	Integral indicator with 360° visibility
Remote Output LED Characteristic(-)	4.7 k Ω connected to power negative
Operating and storage temperature	-40°C to +70°C
	Operating temperature restricted by intrinsically safe gas classification.
	Class T5: -40°C to +45°C
	Class T4: -40°C to +60°C
	Protect it from condensation or icing
Humidity (no condensation or icing)	0% to 98% RH
IP rating	IP44
Standards and approvals	EN54-7, CPR, LPCB, MED, LR, DNV-GL, BV, ABS, CCS, KRS, VdS, BOSEC, IECEX, ATEX, WEIGHT and FG
Certificate No. BASEEFA	BASEEFA06ATEX0007X
Dimensions	100 mm diameter x 42 mm height 100 mm diameter x 50 mm height with base
Detector weight	75 g with base 135 g
Housing Material:	White fireproof polycarbonate
Terminals:	Nickel-plated stainless steel

DIMENSIONS

