SOC-E-IS(WHT)

Intrinsically safe conventional smoke detector

Description

The SOC-E-IS(WHT) is a WHITE, optical smoke detector designed for use in hazardous areas. It incorporates a remote indicator output and a removable chamber for easy maintenance.

The SOC-E-IS is fully compatible with the majority of current conventional systems and incorporates a unique high performance optical smoke chamber removing the need to use ionisation detectors in the majority of applications.



Hazardous Area Classification

ATEX II 1G
II - Equipment group (Non-Mining)
1 - Equipment category (for Zone 0 or 20)
G - Type of explosive atmosphere (Gas, Vapours and Mist)

Cenelec Ex ia IIC T5 Ga (-20°C ≤ Ta ≤ +55°C)
Ex - Explosion protection symbol
ia - Protection concept (Intrinsically Safe)
IIC - Apparatus group (Gas)
T5 - Temperature classification (100°C)
Ga - Equipment protection level (Continuous)
Tamb - Ambient temperature range (-20 to +55°C)

BASEEFA Certificate number

Bassefa 19ATEX0143X

Details

- Removable, high performance chamber
- Automatic sensitivity window verification (ASWV) - Drift compensation technology
- Remote indicator output
- Wide voltage range (9.5 to 30 VDC)
- Single fire LED with 360° viewing
- Low profile design with one piece outer cover
- ATEX Classification to: Ex ia IIC T5 Ga (-20°C ≤ Ta ≤ +55°C)
- Suitable for installation in areas at Category 1 (including all lower categories)
- Approved by LPCB and VdS

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Technical specifications

General

Status indication	LED
Compatibility	Aritech, Kilsen & Ziton conventional zone interfaces using the YBN-R/4(IS) base
Connectivity	2-wire zone

Electrical

Power supply type	Zone powered
Operating voltage	12 to 30 VDC
Current consumption	35 µA (quiescent) <40 mA (alarm) 120 µA (sensitivity warning) <20 mA (remote indicator)

Detection

Detection principle	Optical light scatter

Physical

Physical dimensions	100 x 48 mm (Ø x H)
Net weight	106 g
Colour	White
Mounting type	Base mount, Ceiling mount
Material (body)	ABS
Functional marking	BASEEFA Rating

Environmental

Vandal proof	No
Operating temperature	-10 to +50°C
Storage temperature	-30 to +60°C
Relative humidity	<95% noncondensing @ 40°C
Environment	Indoor, IS
Hazardous environment rating	Ex ia IIC T5 Ga (-20°C ≤ Ta ≤ +55°C)
IP rating	IP42

Regulatory

Compliancy	CE, REACH, RoHS 2
Certification	CENELEC/ATEX, LPCB, VdS
Standards	EN54:7 IECEx BAS 19.0122X

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