

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°C 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 μ A (quiescent) <40 mA (alarm) 120 μ A (sensitivity warning) <20 mA (remote indicator) |

Detection

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|---------------------|-----------------------|
| Detection principle | Optical light scatter |
|---------------------|-----------------------|

Physical

| | |
|---------------------|----------------------------------|
| Physical dimensions | 100 x 48 mm (\varnothing 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 \leq Ta \leq +55°C) |
| IP rating | IP42 |

Standards & regulation

| | |
|------------------------|-------------------------|
| Compliance | CE, REACH, RoHS 2 |
| Certification | CENELEC/ATEX, LPCB, VdS |
| Standards | EN54:7 |
| Standards & regulation | IECEx BAS 19.0122X |

As a company of innovation, Carrier Fire & Security reserves the right to change product specifications without notice. For the latest product specifications, visit firesecurityproducts.com online or contact your sales representative.

Last updated on 2 April 2021 - 8:59

