

1151EIS Conventional Ionization Smoke Detector



Features

- Low profile design
- Low current draw
- Remote LED option
- Two alarm LEDs providing 360° visibility
- Stable performance in high air velocities
- Removable cover for ease of maintenance
- Simple plug-in installation
- Compatible with standard B401 mounting base
- Built-in test switch
- Tamper-resistant
- Suitable for use in up to Zone 0 environments
- Approved for use with Zener safety barriers or galvanic isolators
- BASEEFA approval to EEx ia IIB T5
- Tested and approved to EN54–7:2000 (Amendment 1)

Description

Model 1151EIS ionization smoke detectors use state-of-the-art sensing chambers and SMD circuitry for maximum reliability. These detectors are designed to afford open area protection and are for use in hazardous areas where potentially explosive atmospheres are likely to arise (confirm classification of equipment required with your responsible authority).

1151EIS detectors are designed to be used with compatible panels only and must be used in conjunction with a compatible zener barrier or galvanic isolator.

Each detector has two integral alarm LEDs to provide local visual indication of detector status. Once the detector senses a fire, it latches in alarm and remains in this condition until it is reset by a momentary power interruption.

Model 1151EIS smoke detectors include a tamper feature that prevents removal from the base without the use of a tool.

In addition, these detectors can be tested by activating an internal reed switch with a test magnet. This test simulates smoke in the detector and performs a full check of the operating circuitry.



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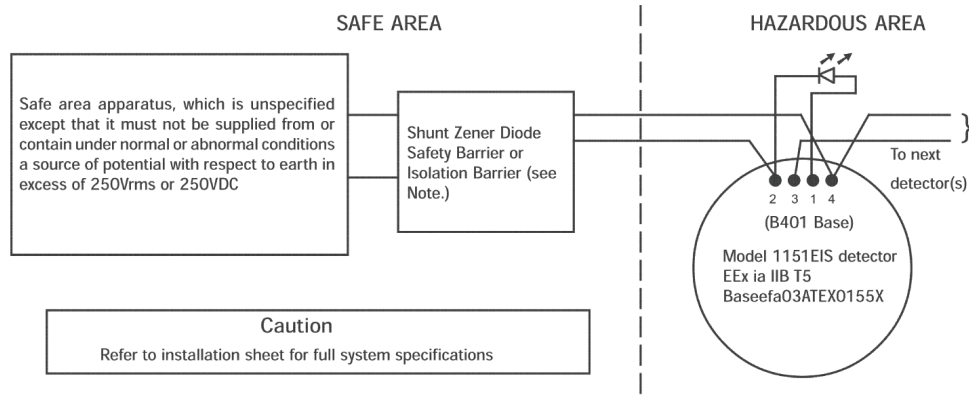


Baseefa03ATEX0155X



G296050

Typical 1151EIS System Diagram



Note: Any single channel shunt zener diode safety barrier or single channel of a dual ch safety barrier certified by BASEEFA or any EEC approved certification body to [EEx ia] IIB lower output parameters may be used:

$$U_z = 28V$$

$$I_{max: out} = 93.3mA$$

$$W_{max: out} = 0.67W$$

In any safety barrier used, the output current must be limited by a resistor "R", such that in the following isolation barriers may be used:

MTL : MTL4061 (BAS01ATEX7176), MTL5061 (BAS01ATEX7160)

Pepperl + Fuchs : KFDO-CS-Ex1.5IP (BAS98ATEX7343), KFDO-CS-Ex2.5IP (BAS98ATEX7343)

Electrical Specifications

Operating Voltage
15 to 32VDC
Standby Current (maximum)
30 μ A at 24 VDC

Latching alarm reset by momentary power interruption

Environmental Specifications

Operating Temperature Range
-10°C to 55°C
Operating Humidity Range
10% to 93% Relative Humidity (non-condensing)
Intrinsic Safety Rating
EEx ia IIB T5

Product Range

Compatible bases
B401, B401DG

Mechanical Information

Height
43mm
Diameter
104mm
Weight
110g (excluding base)