

INTRINSICALLY SAFE - Ionisation Smoke Detector Model 1151EIS

Overview

Features

- Low profile design
- Low current draw
- Remote LED option
- Two alarm LEDs providing 360° visibility
- 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)



118b/09 Baseefa03ATEX0156X G296051

Description

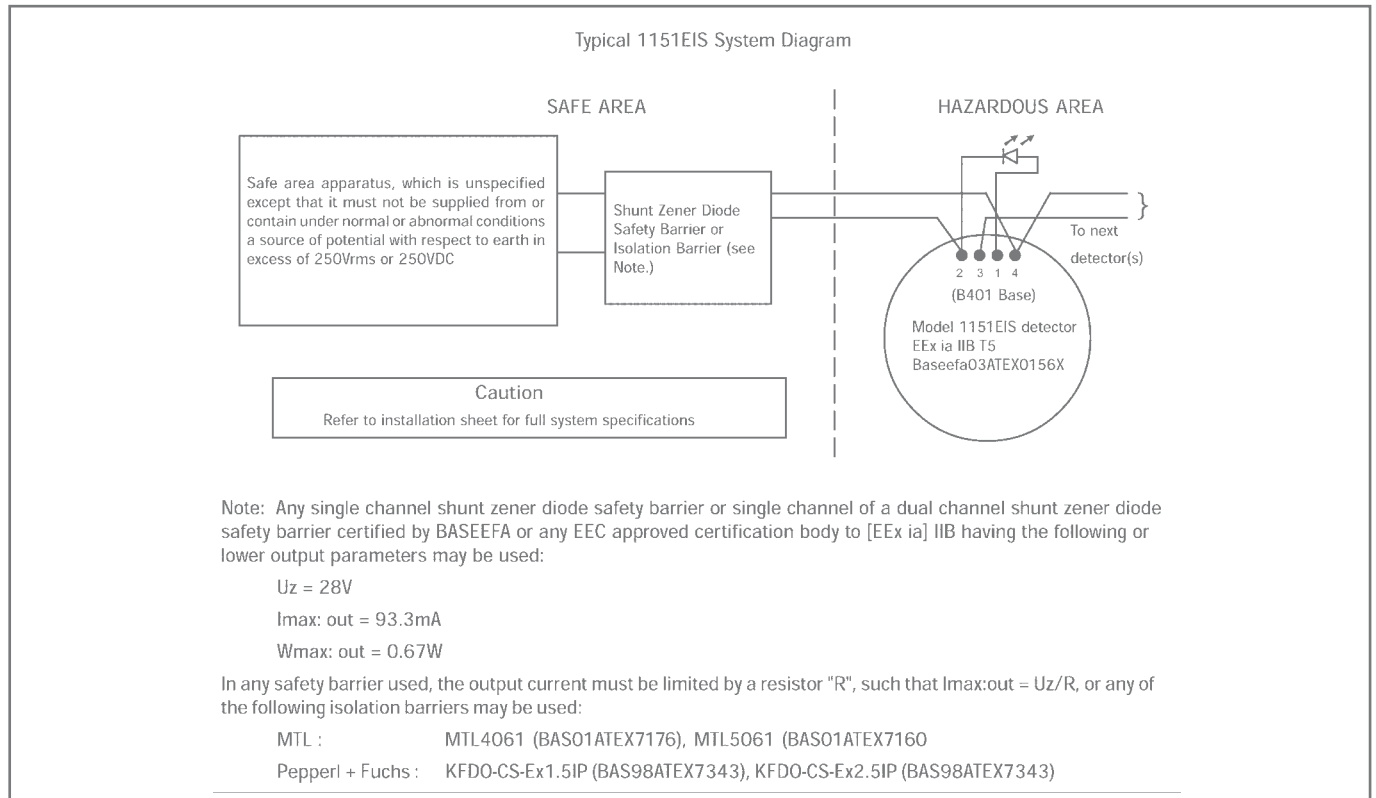
Model 1151EIS ionisation smoke detectors use state-of-the-art sensing chambers and SMD circuitry for maximum reliability. These detectors are designed to afford open area protection and are for use in hazardous areas where potentially explosive atmospheres are likely to arise (confirm classification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

Architect/Engineer Specifications

Typical 1151EIS System Diagram



Electrical Specifications

| | |
|-------------------------|--|
| Operating Voltage Range | 15 to 32VDC |
| Maximum Standby Current | 30µA at 24VDC |
| | Latching alarm reset by momentary power interruption |

Environmental Specifications

| | |
|-------------------------------|---|
| Application Temperature Range | -10°C to 55°C |
| Humidity | 10% to 93% Relative Humidity (non-condensing) |
| IP Ratings | On application |
| Intrinsic Safety Rating | EEx ia IIB T5 |

Mechanical Information

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

Product Range

| | |
|------------------|--------------|
| Compatible Bases | B401, B401DG |
|------------------|--------------|

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 Installation information: in order to ensure full functionality, refer to the installation instructions as supplied.