IDX-751

Intrinsically Safe Intelligent Photoelectric Smoke Sensor

Section: Intelligent/Addressable Devices

FEATURES

- **Sleek low profile design**
- **Common base for Optical, Ionisation And Thermal sensors**
- **Analogue addressable communications**
- **Stable communication technique with high noise immunity**
- **Rotary DECADE 01 to 99 address switches**
- **Dual LED design provides 360° viewing angle**
- **Visible LED's blink every time the sensor is addressed (optional), and illuminate steady on alarm**
- **Built-in functional test switch activated by external magnet**
- **Tamper-resistant feature**
- **BASEEFA approved to EEx ia IIC T5 for use in zone 0 hazardous environments**

GENERAL

The IDX-751 is an analogue, addressable, low profile Intelligent Intrinsically Safe smoke sensor designed for use with NOTIFIER protocol fire alarm control panel.

This analogue addressable sensor has been specially engineered so that it does not become a source of ignition in areas where potentially explosive atmospheres may arise. It provides fire protection in the most hazardous environments. The sensors are approved for use in Zone 0 areas and with most gases, including Hydrogen and Acetylene, by the British Approvals Service for Electrical Equipment in Flammable Atmosperes (BASEEFA) to EEx ia IIC T5 for use in hazardous environments.

The IDX-751 must used in conjunction with an IST200 Translator module and a Y72221 galvanic isolator. Like any other analogue addressable sensor the IDX-751 enables the control panel to provide the operator with a pinpoint description of where the fire is located. The control panel is capable of not only knowing the sensor's location but exactly how much smoke is in the chamber of the sensor.

The sensor may be set for different sensitivity settings appropriate to the environment at its location.

The IDX-751 Intelligent Photoelectric smoke sensor incorporates a superior Optical chamber designed to respond quickly and dependably to a broad range of fire types.

BASEEFA No.: Ex98D2020



INSTALLATION

The IDX-751 plug-in Photoelectric smoke sensor uses a common base to simplify installation, service, and maintenance. A special tool allows maintenance personnel to plug in and remove detectors without the use of a ladder.

The Sensor requires the installation of the IST200 Translator module and a Galvanic Isolator to ensure correct operation.

Mounting hardware and installation instructions are provided with each device.

This document is not intended to be used for installation purposes. Every care has been taken in the preparation of this document but no liability can be accepted for the use of the information therein. Design features may be changed or amended without prior notice. For more information, contact **NOTIFIER.**
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Quality Systems Certificate No. 154
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SPECIFICATIONS

- **Dimensions**
  - ✓ Height: 43 mm installed in B501 Base.
  - ✓ Diameter: 102 mm installed in B501 Base.
  - ✓ Weight: 102 g.
- **Current Consumption**
  - ✓ 200 µA @ 24 VDC (without communication); 330 µA @ 24 VDC (one communication every 5 sec. with LED enabled).
  - ✓ Maximum Alarm Current: 2.5 mA @ 24VDC (with LED enabled).
- **Operating Voltage**
  - ✓ 15 to 32 volts DC peak to IST200
- **Environmental Limits**
  - ✓ -10°C to 60°C. Operating Temperature
  - ✓ 10% to 93%, non-condensing Relative Humidity

ORDERING INFORMATION

Part No.	Description
IDX-751	Intrinsically Safe Intelligent Photoelectric Smoke Sensor. Mounts to the bases specified below.
Base:	
B501	Standard Sensor Base.
Accessories:	
IST200	IST200 Translator Module.
Y72221	Galvanic Isolator.
SMK400	Surface mounting kit provides for entry of surface wiring conduit. For use with B501 base only.
RMK400	Recess mounting kit. For use with B501 base only.

Wiring Schematic

