SDX-751EM

Low Profile Optical Analogue Addressable Sensor

Section: Intelligent/Addressable Devices

FEATURES

- **Sleek low profile design**
- **Uses common sensor base**
- **Analogue addressable communications**
- **Stable communication technique with high noise immunity**
- **Low standby current**
- **Rotary DECADE 01 to 99 address switches**
- **Remote LED output as standard**
- **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**
- **Optional Relay, Isolator, or Sounder bases**
- **Tamper-resistant feature**
- **LPCB (EN54 part 7) approved**

GENERAL

The SDX-751EM is an analogue addressable, low profile Optical smoke sensor designed for use with any NOTIFIER protocol fire alarm control panel.

This analogue addressable sensor 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 of its location.

The SDX-751EM analogue addressable Optical sensor's unique sensing chamber is designed with superior signal to noise ratio. The optical chamber is engineered to sense the presence of smoke produced by a wide range of combustion sources.

INSTALLATION

The SDX-751EM plug-in Optical 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 using a ladder.

Mounting hardware and installation instructions are provided with each device.

ISO9001
Design, Manufacture and Supply to Quality Management Systems Certified to ISO9001:1994

LPCB

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Quality Systems Certificate No. 154 Assessed to ISO9001

SPECIFICATIONS

- **Dimensions**
  - ✓ Height: 43 mm installed in B501 Base.
  - ✓ Diameter: 102 mm installed in B501 Base.
  - ✓ Weight: 102 g.

- **Current Consumption**
  - ✓ 230 µA @ 24 VDC (without communication); 300 µA @ 24 VDC (one communication every 5 sec. with LED enabled).
  - ✓ Maximum Alarm Current: 6.5 mA @ 24VDC (with LED enabled).

- **Operating Voltage**
  - ✓ 15 to 32 VDC peak.

- **Environmental Limits**
  - ✓ -20°C to 60°C operating temperature.
  - ✓ -30°C to 80°C storage or short term temperature.
  - ✓ 10% to 93%, non-condensing relative humidity

ORDERING INFORMATION

Part No.	Description
SDX-751EM	Intelligent Optical Smoke Sensor. Mounting options specified below.

Base:

B501	Standard Sensor Base.
B524IE	Isolator Base.
B524IEFT-1	FET Isolator Base.
B524RE	Relay Base.

A range of Sounder Bases are also available.

Accessories:

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 Diagram (Standard Base)