



OptiPlex SDX-751TEM

**Self Optimising Optical,
Thermal Multi-Sensor
Analogue Addressable
Sensor**

Section: Intelligent/Addressable
Devices

FEATURES

- **Sleek low profile design**
- **5 Smoke sensitivity levels, two self optimising with heat only output**
- **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**

- **LPCB (EN54 part 7 and part 5) approved. CEA 4021 Multi Sensor approved**

GENERAL

The OptiPlex, SDX-751TEM, is an analogue addressable, low profile Optical and Thermal smoke sensor designed for use with NOTIFIER protocol fire alarm control panels.

Like any other analogue addressable sensor, it 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 smoke and heat elements enable the sensor to respond quickly to a broad range of fire types whilst remaining unaffected by passing phenomena.

The OptiPlex combines superior Optical smoke chamber design and Thermistor heat elements with a sophisticated sensor algorithm to provide the next generation of Multi-Criteria Sensors.

It uses advanced algorithms to continuously sample the environment and to adjust its sensitivity and alarm thresholds automatically. This provides optimum sensitivity within an unstable environment.

This unique sensor, as well as utilising drift compensation, provides two maintenance levels.

This enables maintenance to take place before the sensor reaches a critical maintenance level. The sensor may be configured to operate at different sensitivity settings, dependent on its location and control panel software, in a heat only mode.



INSTALLATION

The SDX-751TEM plug-in Optical, Thermal Multi 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.

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, Charles Avenue, Burgess Hill, West Sussex, RH15 9UF. United Kingdom
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ISO9001
Design, Manufacture and Supply
to Quality Management Systems
Certified to ISO9001:1994



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

- ✓ 200 μ A @ 24 VDC (without communication); 300 μ A @ 24 VDC (one communication every 5 sec. with LED enabled).
- ✓ Maximum Alarm Current: 6.5 mA @ 24VDC (with LED enabled).

• Operating Voltage

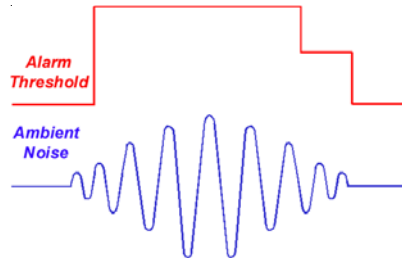
- ✓ 15 to 32 VDC peak.

• 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

• Alarm Threshold

- ✓ The OptiPlex Sensor increases its alarm threshold when background noise such as dust from cleaning is present. When the disturbance subsides OptiPlex reacts to this change and becomes more sensitive.



ORDERING INFORMATION

| Part No. | Description |
|------------|---|
| SDX-751TEM | Intelligent Optical Thermal 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 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)

