

FDX Series

FDX-551 Thermal Analogue Addressable Sensors

Section: Intelligent/Addressable
Devices

FEATURES

- **Dual thermistors**
- **Fixed Temperature, Fixed High Temperature and Rate-Of-Rise models**
- **Uses common sensor base**
- **Analogue addressable communication**
- **Stable communication technique with high noise immunity**
- **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 detector 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 5) approved**

GENERAL

The FDX-551 Series are analogue addressable, low profile Thermal smoke sensors designed for use with any NOTIFIER protocol fire alarm control panel.

The sensors measure thermal levels caused by a fire and report the analogue value of the thermal measurement to the control panel. The use of analogue information provides significant benefits to the end user, installer and serviceman in ways which are not possible with a conventional type system.

These analogue addressable sensors enable the control panel to quickly provide the operator with a pinpoint description of the location of a fire in it's early stages.



INSTALLATION

The FDX-551 Series plug-in Thermal sensors use 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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Quality Systems Certificate No. 154
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SPECIFICATIONS

• Dimensions

- ✓ Height: 50 mm installed in B501 Base.
- ✓ Diameter: 102 mm installed in B501 Base.
- ✓ Weight: 150 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 general operating temperatures (See Note below)
- ✓ -30°C to 80°C storage or short term temperature
- ✓ 10% to 93%, non-condensing relative humidity.

Note: The ambient temperature for the FDX-551EM and FDX-551REM should not exceed 45°C and the FDX-551HTEM should not exceed 68°C, to avoid unwanted alarm conditions being triggered.

ORDERING INFORMATION

Part No.	Description
FDX-551EM	Intelligent Fixed Temperature (58°C) Thermal Sensor. Mounting options specified below.
FDX-551HTEM	Intelligent Fixed High Temperature (78°C) Thermal Sensor. Mounting options specified below.
FDX-551REM	Intelligent Rate-of-Rise Temperature (58°C or 8°C / min) 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)

