FST-951-ISO Series Intelligent Addressable Heat Detectors

The NOTIFIER® FST-951-ISO intelligent thermal detectors are designed for both performance and aesthetics. A new modern, sleek, contemporary design and advanced thermal technologies make the FST-951-ISO Series ideal for both system operation and building design. The point ID address, set using rotary decimal switches, provide specific detector locations.

The series includes a 135°F (57°C) fixed-temperature and rate-of-rise detectors. These thermal detectors provide effective, intelligent property protection in a variety of applications. These detectors are available in FlashScan® only. This series also includes positive (+) side isolation on the Signaling Line Circuit (SLC) and must be used in conjunction with an isolation base.



Features

SLC LOOP:

- Two-wire SLC loop connection
- Unit uses base for wiring
- Compatible with only FlashScan® protocol systems

ADDRESSING:

- Addressable by device
- Rotary, decimal addressing
  (Refer to the **NOTIFIER** panel manuals for device capacity.)

ARCHITECTURE:

- Designed to meet UL 521 7th Edition
- Sleek, low-profile, stylish design
- State-of-the-art thermistor technology for fast response
- Integral communications and built-in device-type identification
- Built-in tamper resistant feature
- Built-in functional test switch activated by external magnet

OPERATION:

- Fixed temperature model (FST-951-ISO) factory preset to 135°F (57°C)
- Rate-of-rise model (FST-951R-ISO),15°F (8.3°C) per minute
- 360°-field viewing angle of the two visual alarm indicators, LEDs blink green in Normal condition and turn on steady red in Alarm

MECHANICALS:

- Sealed against back pressure
- SEMS screws for wiring of the separate base
- Designed for direct-surface or electrical-box mounting
- Plugs into separate base for ease of installation and maintenance

OTHER SYSTEM FEATURES:

- Remote test feature from the panel
- Walk test with address display
- Low standby current

OPTIONS:

- Remote LED output connection to optional RA100Z remote LED annunciator

Installation

FST-951-ISO Series plug-in intelligent thermal detectors use a detachable base to simplify installation, service and maintenance. Installation instructions are shipped with each detector.

Mount detector base (all base types) on an electrical backbox which is at least 1.5" (3.81 cm) deep. For a chart of compatible junction boxes, see DN-60054

NOTE: Because of the inherent supervision provided by the SLC loop, end-of-line resistors are not required. Wiring “T-taps” or branches are permitted for Class “B” wiring only.

Construction

These detectors are constructed of fire-resistant plastic. The FST-951-ISO Series plug-in intelligent thermal detectors are designed to commercial standards and offer an attractive appearance.

Operation

Each FST-951-ISO Series detector uses one of the panel’s addresses (total limit is panel dependent) on the NOTIFIER Signaling Line Circuit (SLC). It responds to regular polls from the control panel and reports its type and the status. If it receives a test command from the panel (or a local magnet test), it stimulates its electronics and reports an alarm. It blinks its LEDs when polled and turns the LEDs on when commanded by the panel. The FST-951-ISO Series offers features and performance that represent the latest in thermal detector technology.

Product Line Information

FST-951-ISO: White, low-profile intelligent 135°F (57°C) fixed thermal sensor with positive (+) side isolation on the Signaling Line Circuit (SLC), FlashScan only

FST-951R-ISO: White, low-profile intelligent rate-of-rise thermal sensor with positive (+) side isolation on the Signaling Line Circuit (SLC), FlashScan only

INTELLIGENT BASES

B300-4-IS: White, 4" base, standard flanged low-profile isolator mounting base

MOUNTING KITS AND ACCESSORIES

RA100Z(A): Remote LED annunciator. 3-32 VDC. For use with B300-4-IS.

M02-04-00: Test magnet

M02-09-00: Test magnet with telescoping handle

Specifications

Size: 2.0" (51mm) high; base determines diameter

– **B300-4-IS series:** 4" (10.2 cm) diameter

Shipping weight: 3.4 oz. (95 g)

Operating temperature range:

- FST-951-ISO, FST-951R-ISO Series: -4°F to 100°F (-20°C to 38°C)

Detector Spacing: UL approved for 50 ft. (15.24 m) center-to-center, FM approved for 25 x 25 ft. (7.62 x 7.62 m) spacing

Relative humidity: 10% – 93% non-condensing

Thermal ratings: Fixed-temperature set point 135°F (57°C), rate-of-rise detection 15°F (8.3°C) per minute

ELECTRICAL SPECIFICATIONS

Voltage range: 15 - 32 volts DC peak

Standby current (max. avg.): 200µA @ 24 VDC (one communication every 5 seconds with LED enabled)

Max current: 4.5 mA @ 24 VDC ("ON")

Listings and Approvals

Listings and approvals below apply to the FST-951-ISO Series detectors. In some cases, certain modules may not be listed by certain approval agencies, or listing may be in process. Consult factory for latest listing status.

- UL Listing: S747
- FM Approved
- CSFM: xxxx-yyyy-zzzz

ISO 9001 CERTIFIED
ENGINEERING & MANUFACTURING QUALITY SYSTEMS

This document is not intended to be used for installation purposes.
We try to keep our product information up-to-date and accurate.
We cannot cover all specific applications or anticipate all requirements.
All specifications are subject to change without notice.

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