FSP-951-ISO Series Addressable Photoelectric Smoke Detectors

The NOTIFIER® FSP-951-ISO Series intelligent plug-in smoke detectors are designed for both performance and aesthetics. A new modern, sleek, contemporary design and enhanced optical sensing chamber is engineered to sense smoke produced by a wide range of combustion sources in accordance with more stringent code standards.

The FSP-951-ISO Series detector sensitivity can be programmed in the control panel software. Sensitivity is continuously monitored and reported to the panel. Point ID capability allows each detector's address to be set with rotary, decimal address switches, providing exact detector location for selective maintenance when chamber contamination reaches an unacceptable level. Dual electronic thermistors add 135°F (57°C) fixed temperature thermal sensing on the FSP-951T-ISO. This series also includes positive (+) side isolation on the Signaling Line Circuit (SLC) and must be used in conjunction with an isolation base. FSP-951-ISO series detectors are available in FlashScan® only.



Features

SLC LOOP:

- Two-wire SLC loop connection
- Unit uses base for wiring
- Compatible with only FlashScan® protocol systems
- Stable communication technique with noise immunity

ADDRESSING:

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

ARCHITECTURE:

- Sleek, low-profile, stylish design
- Unique single-source design to respond quickly and dependably to a broad range of fires
- Integral communications and built-in device-type identification
- Built-in tamper resistant feature
- Remote test feature from the panel
- Walk test with address display (an address on 121 will blink the detector LED: 12-[pause]-1**(FlashScan systems only)**
- Built-in functional test switch activated by external magnet
- Removable cover and insect-resistant screen for simple field cleaning

OPERATION:

- Designed to meet UL 268 7th Edition
- Factory preset at 1.5% nominal sensitivity for panel alarm threshold level
- Low standby current
- 360°-field viewing angle of the two visual alarm indicators, LEDs blink green in Normal condition and turn on steady red in Alarm
- LED "blinks" when the unit is polled (communicating with the fire panel) and latches 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

OPTIONS:

- Remote LED output connection to optional RA100Z remote LED annunciator

Installation

FSP-951-ISO Series plug-in intelligent smoke 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 FSP-951-ISO Series plug-in intelligent smoke detectors are designed to commercial standards and offer an attractive appearance.

Operation

Each FSP-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 FSP-951-ISO Series offers features and performance that represent the latest in smoke detector technology.

Product Line Information

FSP-951-ISO: White, low-profile intelligent photoelectric sensor with positive (+) side isolation on the Signaling Line Circuit (SLC), FlashScan only

FSP-951T-ISO: White, same as FSP-951-ISO but includes a built-in 135°F (57°C) fixed-temperature thermal device 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

Sensitivity:

- UL Applications: 0.5% to 4.0% per foot obscuration.

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:

- FSP-951-ISO Series: 32°F to 122°F (0°C to 50°C)
- FSP-951T-ISO Series: 32°F to 100°F(0°C to 38°C)

UL Listed Velocity Range: 0-4000 ft/min. (1219.2 m/min.), suitable for installation in ducts

Relative humidity: 10% – 93% non-condensing

Thermal ratings: Fixed-temperature set point 135°F (57°C),

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")

DETECTOR SPACING AND APPLICATIONS

NOTIFIER recommends spacing detectors in compliance with NFPA 72. In low airflow applications with smooth ceiling, space detectors 30 feet (9.1m). For specific information regarding detector spacing, placement, and special applications refer to NFPA 72. A **System Smoke Detector Application Guide,** document SPAG91, is available at **www.systemsensor.com.**

Listings and Approvals

Listings and approvals below apply to the FSP-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: S1115
- FM Approved
- CSFM: xxxx-yyyy:zzzz

Honeywell Building Automation India
Unitech Trade Center, Sector-43, Block C,
Sushant Lok Phase – I, Gurgaon – 122002

For more information
Tel: 0008000502167
www.honeywellbuildings.in

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.

FlashScan®, NOTIFIER®, and System Sensor® are registered trademarks of Honeywell International, Inc.

©2025 by Honeywell International Inc. All rights reserved. Unauthorized use of this document is strictly prohibited.

Country of Origin: India

NOTIFIER® by Honeywell