



# NOTIFIER FSI-751 Plug-in Intelligent Ionization Sensor Instruction Manual

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**NOTIFIER FSI-751 Plug-in Intelligent Ionization Sensor**



## GENERAL DESCRIPTION

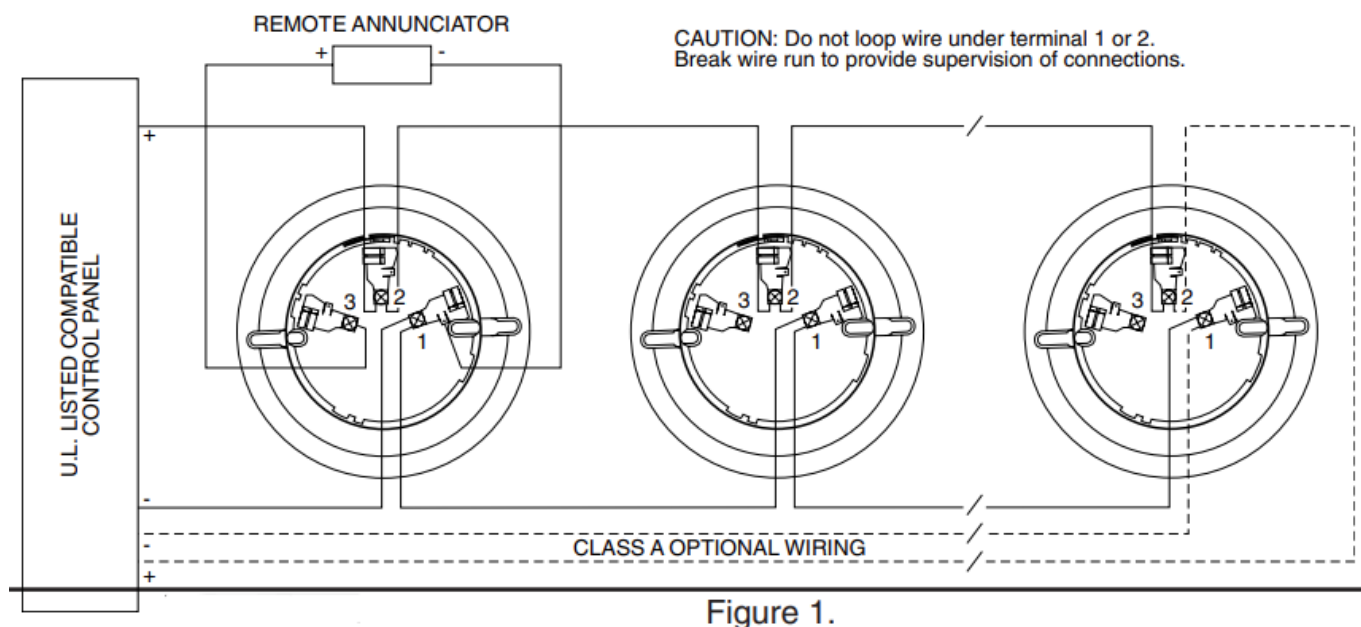
Model FSI-751 is an intelligent sensor that uses a state-of-the-art ionization sensing chamber. This sensor is designed to provide open area protection and is intended for use with compatible control panels only. Two LEDs on each sensor light to provide a local, visible sensor indication. Remote LED annunciator capability is available as an optional accessory (Part No. RA400Z). Notifier panels offer different feature sets across different models. As a result, certain features of the FSI-751 may be available on some control panels, but not on others. The sensor will support either FlashScan™ or CLIP (Classic Loop Interface Protocol) mode. The possible features available in the FSI-751, if supported by the control unit include:

1. The panel controls the LED operation on the sensor. Operational modes are RED blink, RED continuous, GREEN blink, and off.
2. The remote output may be synchronized to the LED operation or controlled independently of the LEDs. Please refer to the operation manual for the UL-listed control unit for the specific operations of the FSI-751.

## SPECIFICATIONS

Operating Voltage Range:	15 to 32 VDC
Max. Avg. Standby Current:	300µA @ 24 VDC (one communication every 5 sec. with LED blink enabled)
Max. Alarm Current (LED on):	6.5 mA @ 24 VDC
Operating Humidity Range:	10% to 93% Relative Humidity, noncondensing
Operating Temperature Range	0° to 49°C (32° to 120°F)
Height:	1.7 inches (43 mm) installed in B710LP Base
Diameter:	6.1 inches (155 mm) installed in B710LP Base 4.1 inches (104 mm) installed in B501 Base
Weight:	3.6 oz. (102 g)

## WIRING GUIDE



Refer to the installation instructions for the plug-in base being used. As indicated in Figure 1, terminals for power, ground and the optional RA400Z Remote Annunciator are included in the base. Base Models B710LP (shown in Figure 1) and B501 are electrically identical.

**NOTE:**

All wiring must conform to all applicable codes, ordinances, and regulations and to control panel specifications.

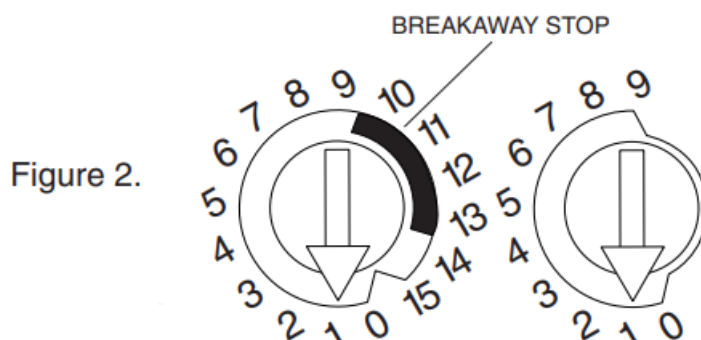
**NOTE:**

Verify that all sensor bases are installed and that polarity of the wiring is correct at each base.

**Disconnect loop power before installing sensors**

Before installing the sensor, please refer to the System Smoke Detector Application Guide. This manual includes detailed information on sensor spacing, placement, zoning, and special applications. Copies of this manual are available from Notifier.

**1. Sensor Installation**



- Set the address on the sensor per job drawings.

**NOTE:** Some panels support extended addressing. In order to set

the sensor above addresses 99 on compatible systems, carefully remove the stop on the upper rotary switch with the thumb or finger as shown in Figure 2.

- Insert the sensor into the base and rotate it clockwise until it drops into place.
- Continue to rotate the sensor until it locks into the base.

**CAUTION:** Dust covers are an effective way to limit the entry of dust into smoke detector sensing

chambers. However, they may not completely prevent airborne dust particles from entering the detector. Therefore, Notifier recommends the removal of detectors before beginning construction or other dust-producing activity. Be sure to remove dust covers from any sensors that were left in place during construction as part of returning the system to se.

## 2. Tamper-Resistance

Model FSI-751 includes a tamper-resistant capability that prevents its removal from the bracket without the use of a tool. Refer to the base manual for details on making use of this capability.

3. After all sensors have been installed, apply power to the system.
4. See Figure 3. Test the sensor by positioning a test magnet (M02-04) against the sensor plastic in the magnet test area. The alarm level should be recognized at the panel and the LED controlled by a communication command from the panel.
5. Reset the sensor by communication command from the panel.

## TESTING

Detectors must be tested after installation and following periodic maintenance. However, before testing, notify the proper authorities that the smoke detector system is undergoing maintenance and the system will be temporarily out of service. Disable the zone or system undergoing maintenance to prevent unwanted alarms. Test the sensors as follows:

### Test Magnet (Model M02-04 – optional)

- Test the sensor by positioning the optional test magnet against the sensor plastic in the magnet test area, as shown in Figure 3.
- Both LEDs should latch on within 30 seconds, indicating an alarm and annunciating the panel.

### Smoke Entry: Aerosol Generator (Gemini 501)

- The GEMINI model 501 aerosol generator can be used for smoke entry testing. Set the generator to represent 4%/ft to 5%/ft obscuration as described in the GEMINI 501 manual. Using the bowl-shaped applicator, apply aerosol until the panel alarms.

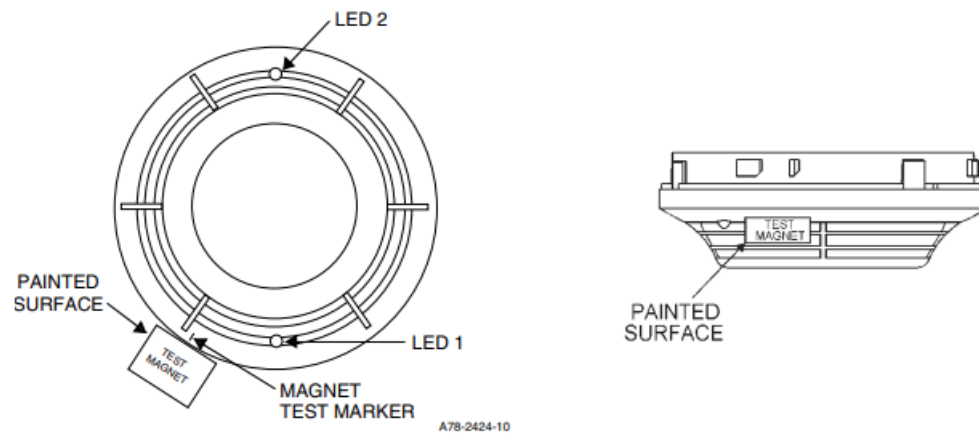


Figure 3. Test Magnet Positioning

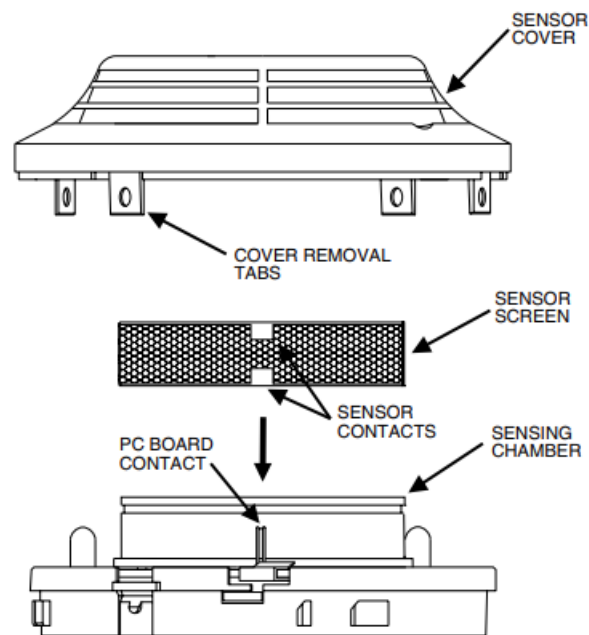


Figure 4. Cleaning

## CLEANING

Before cleaning, notify the proper authorities that the system is undergoing maintenance and will be temporarily out of service. Disable the system to prevent unwanted alarms.

1. Remove the sensor to be cleaned from the system.
2. Remove the sensor cover, see Figure 4. Use a small standard screw-driver to release each of the four cover removal tabs that hold the cover in place.
3. Vacuum the outside of the screen carefully without removing it.
4. Remove the sensor screen. Pull the screen straight away from the sensing chamber until it snaps out of place. Replacement screens are available.
5. Use a vacuum cleaner or clean, compressed air to remove dust and debris from the sensing chamber.
6. Reinstall or replace the sensing chamber screen by sliding the edge without the tabs over the sensing chamber. Make sure that one of the screen contacts touches the circuit board contact.
7. Reinstall the sensor cover. Use the LEDs to align the cover with the sensor. Snap the cover into place.
8. When all sensors have been cleaned, restore power to the system and test the sensor(s) as described in the TESTING section of this manual.

**Please refer to the insert for the Limitations of Fire Alarm Systems**

## **FCC Statement**

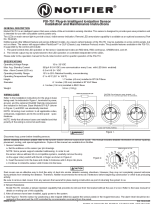
This device complies with part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) This device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

### **Note:**

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

## **Documents / Resources**

	<p><a href="#"><b>NOTIFIER FSI-751 Plug-in Intelligent Ionization Sensor</b></a> [pdf] Instruction Manual FSI-751 Plug-in Intelligent Ionization Sensor, FSI-751, Plug-in Intelligent Ionization Sensor</p>
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