This sensor must be installed in compliance with the control panel system installation manual. The installation must meet the requirements of the Authority Having Jurisdiction (AHJ). Sensors offer maximum performance when installed in compliance with the National Fire Protection Association (NFPA); see NFPA 72.

**GENERAL DESCRIPTION**

Model FSP-751 and FSP-751T are intelligent sensors that combine a state-of-the-art photoelectronic sensing chamber with communications. The FSP-751T adds thermal sensors that will alarm at a fixed temperature of 135°F. These sensors are designed to provide open area protection and are 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. RA4002).

Notifier panels offer different feature sets across different models. As a result, certain features of the FSP-751 or FSP-751T may be available on some control panels, but not on others. The possible features available in the FSP-751 and FSP-751T, if supported by the control unit, are:

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 independent of the LEDs.

Please refer to the operation manual for the UL listed control unit for specific operation of the FSP-751 and FSP-751T.

**SPECIFICATIONS**

<table>
<thead>
<tr>
<th>Specification</th>
<th>FSP-751</th>
<th>FSP-751T</th>
</tr>
</thead>
<tbody>
<tr>
<td>Operating Voltage Range</td>
<td>15 to 32 VDC</td>
<td>15 to 32 VDC</td>
</tr>
<tr>
<td>Standby Current</td>
<td>300µA @ 24 VDC</td>
<td>300µA @ 24 VDC</td>
</tr>
<tr>
<td>Max. Alarm Current (LED on)</td>
<td>6.5 mA @ 24 VDC</td>
<td>6.5 mA @ 24 VDC</td>
</tr>
<tr>
<td>Operating Humidity Range</td>
<td>10% to 93% Relative Humidity, noncondensing</td>
<td>10% to 93% Relative Humidity, noncondensing</td>
</tr>
<tr>
<td>Operating Temperature Range</td>
<td>0° to 49°C (32° to 120°F); FSP-751</td>
<td>0° to 49°C (32° to 120°F); FSP-751</td>
</tr>
<tr>
<td>Height</td>
<td>1.7 inches (43 mm) installed in B710LP Base</td>
<td>4.1 inches (104 mm) installed in B501 Base</td>
</tr>
<tr>
<td>Diameter</td>
<td>6.1 inches (155 mm) installed in B710LP Base</td>
<td>6.1 inches (155 mm) installed in B710LP Base</td>
</tr>
<tr>
<td>Weight</td>
<td>3.6 oz. (102 g)</td>
<td>3.6 oz. (102 g)</td>
</tr>
</tbody>
</table>

**SPACING**

Notifier recommends spacing sensors in compliance with NFPA 72. In low airflow applications with smooth ceilings, space sensors 30 feet apart. For specific information regarding sensor spacing, placement, and special applications, refer to NFPA 72 or Notifier’s System Smoke Detector Application Guide, available at no charge from Notifier.

Duct Applications: FSP-751 and FSP-751T are listed for use in ducts. See Duct Applications Guide A05-1004 for details on pendant mount applications.

**NOTES**: These products are not listed for use inside duct smoke detectors.

**WIRING INSTRUCTIONS**

All wiring must be installed in compliance with the National Electrical Code, applicable local codes, and any special requirements of the Authority Having Jurisdiction. Proper wire gauges should be used. The installation wires should be color-coded to limit wiring mistakes and ease system troubleshooting. Improper connections will prevent a system from responding properly in the event of a fire.

**Disconnect power from the communication line before installing sensors.**

All wiring must conform to applicable local codes, ordinances, and regulations.

1. Wire the sensor base (supplied separately) per the wiring diagram (Figure 1).
2. Set the desired address on the sensor address switches.
3. Install the sensor into the sensor base. Push the sensor into the base while turning it clockwise to secure it in place.
4. After all sensors have been installed, apply power to the control unit and activate the communication line.
5. Test the sensor(s) as described in the TESTING section of this manual.

**CAUTION**

Dust covers provide limited protection against airborne dust particles during shipping. Dust covers must be removed before the sensors can sense smoke. Remove sensors prior to heavy remodeling or construction.

**TESTING**

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

All sensors must be tested after installation and periodically thereafter. Testing methods must satisfy the Authority Having Jurisdiction (AHJ). Sensors offer maximum performance when tested and maintained in compliance with NFPA 72. The sensor can be tested in the following ways:

- Disconnect power to the system before testing.
- Set the sensor above address 99 on compatible control panels only.
- Test the sensor(s) with a sensor test button.
- Test the sensor(s) with a sensor test gun.
Please refer to 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.