

SLRLX Addressable Smoke Detector Base

Description

The Model SLRLX is one of the industry's finest Smoke and Heat Smoke Detector Bases. The SLRLX Base incorporates an addressable single-point zone expander module for connection to the LX-Bus™ of the XR200, XR200-485, or XR2400F Command Processor™ Panels. The integrated zone expander reports smoke detector alarm and service conditions to the panel as a single zone.

Installation

Consult the Local Authority Having Jurisdiction (AHJ) and NFPA 72 for specific installation information regarding smoke detector spacing, placement, and special applications.

The SLRLX detector base wires directly to the panel 4-wire LX-Bus™. See the **LX-Bus Interface Cards** list on the back of this sheet for compatible interface cards. When wired to the LX-Bus™, the SLRLX base uses only one of the available expansion zone numbers allowing you to assign additional zone expanders to the next zone number address. See **Addressing the SLRLX**.

Installing the SLRLX Mounting Base

The mounting base connects directly to standard single-gang electrical boxes, 4-inch octagonal boxes or 4-inch square boxes. The base may also be mounted without electrical boxes if approved by the AHJ or if codes allow.

Mounting the Detector Head

The SLRLX mounting base is compatible with either an SLR-835 photoelectric smoke detector head or an SLR-835H photoelectric smoke heat detector head. To install a detector head, simply line up the raised marking on the side of the head with the arrow on the mounting base. Insert the head and rotate it clockwise approximately 15 degrees to snap the locking tab into place.

Removing the Detector Head

To remove the SLR Series detector head, simply turn counterclockwise. If the locking tab slot has been removed, insert a small screwdriver into the locking tab slot on the side of the base and press in while simultaneously turning the detector head counterclockwise.

Maintaining the Detector Head

Refer to the specific detector head documents for testing, maintenance, installation location, and other related operational information.

Wiring Specifications

Several factors determine the performance characteristics of the DMP LX-Bus™: the *length* of wire used, the *number* of devices connected, and the *voltage* at each device. When planning an LX-Bus™ installation, keep in mind the following four specifications:

1. You can install **individual devices** on wire runs of up to 500 feet using 22 gauge wire or up to 1,000 feet using 18 gauge wire. To increase the wire length or add additional devices, a power supply is required.
2. **Maximum distance** for any one LX-Bus circuit (length of wire) is 2,500 feet regardless of the wire gauge. This distance can be in the form of one long wire run or multiple branches with all wiring totaling no more than 2,500 feet.
3. **Maximum number of devices** per 2,500 feet LX-Bus circuit is 40.
4. **Maximum voltage drop** between the panel or auxiliary power supply and any device is 2.0 VDC. If the voltage at any device is less than the required level, you should add an auxiliary power supply at the circuit end.

Note: Do not use shielded wire for the LX-Bus.

Refer to the 710 Installation Sheet (LT-0310) and the LX-Bus/Keypad Bus Wiring Application Note (LT-2031) for additional information.



SLRLX Wiring

Pull the wires through from the electrical box. Connect a 4-wire harness to J1 terminal on the LX-Bus™ according to the wiring diagram in Figure 1.

Addressing the SLRLX Base

Addressing the SLRLX base requires you to set two on-board rotary switches to match the LX-Bus zone number address. Set the switches to match the last two digits of the zone number. For example, to assign the SLRLX detector to zone number 120 on LX-Bus 1, you set the left rotary switch (labeled "TENS") to 2 and the right rotary switch (labeled "ONES") to 0, as shown in Figure 2. To assign the SLRLX detector to zone number 223 on LX-Bus 2, you set the left rotary switch to 2 and the right rotary switch to 3.

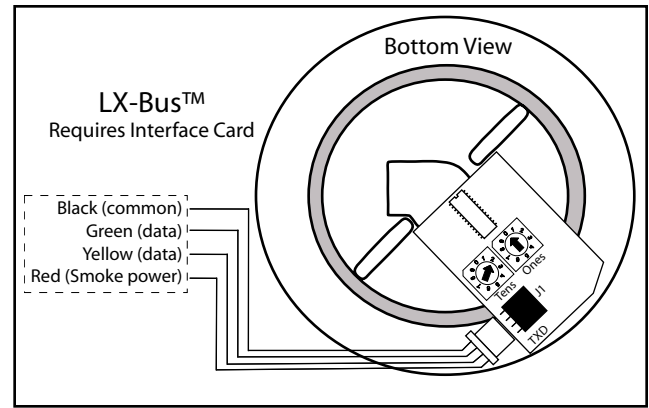


Figure 1: SLRLX Wiring

Example:

Rotary switches on the SLRLX module set for zone address 120.

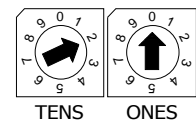


Figure 2: Address switches

Specifications

Operating Range	8.0 to 35.0 VDC
Standby Current	8.3mA at 12 VDC
Alarm Current	58mA max.
Operating Temperature	32° F to 120° F
Detector Head Dimensions	6" Diameter
Color	White Base

LX-Bus Interface Cards

462N, 462P, 462FM, 472, and 481

Accessories

- SLR-835 Photoelectric Smoke Detector Head
- SLR-835H Photoelectric Smoke Detector plus Heat Detector Head



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