



NOTIFIER B710LP Plug In Detector Base Instruction Manual

[Home](#) » [NOTIFIER](#) » NOTIFIER B710LP Plug In Detector Base Instruction Manual 

Contents

- [1 NOTIFIER B710LP Plug In Detector Base](#)
- [2 Installation Instructions](#)
- [3 GENERAL DESCRIPTION](#)
- [4 BASE TERMINALS](#)
- [5 SPECIFICATIONS](#)
- [6 ELECTRICAL RATINGS](#)
- [7 MOUNTING](#)
- [8 INSTALLATION WIRING GUIDELINES](#)
- [9 TAMPER-RESISTANCE](#)
- [10 Documents / Resources](#)
 - [10.1 References](#)
- [11 Related Posts](#)



NOTIFIER B710LP Plug In Detector Base



Installation Instructions

Before installing detectors, please thoroughly read the system wiring and installation manuals, and manual System Smoke Detectors Application Guide, which provides detailed information on detector spacing, placement, zoning, and special applications. Copies of these manuals are available from Notifier.

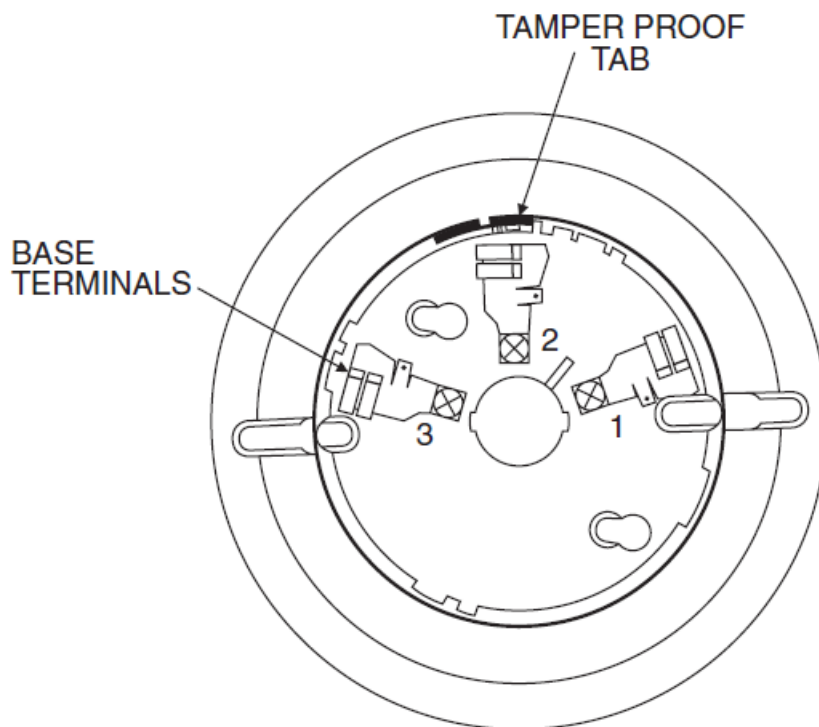
GENERAL DESCRIPTION

The B710LP base is a plug in detector base intended for use in a 2-wire intelligent system, with screw terminals provided for power (+ and –), and remote annunciator connections. Communication takes place over the power (+ and –) lines.

BASE TERMINALS

NO. FUNCTION

1. POWER (–), REMOTE ANNUNCIATOR (–)
2. POWER (+)
3. REMOTE ANNUNCIATOR (+)



C0127-00

Figure 1: Terminal Layout

SPECIFICATIONS

- **Diameter:** 6.1 inches (15.5 cm)
- **Mounting:** 4-inch square box (102 mm) with or without plaster ring
- **Min. Depth:** 1.5 inches (38 mm) 4-inch (102 mm) Octagon Box, Min. Depth: 1.5 inches (38 mm) 3-1/2 inch (89 mm) Octagon Box, Min. Depth: 1.5 inches (38 mm)
- **Single Gang Box, Min. Depth:** 1.5 inches (38 mm)
- **Operating Temperature Range:** 32° to 150°F (0° to 66°C)

REMOTE ANNUNCIATOR, MODEL RA400Z

The remote annunciator is connected between terminals 1 and 3 using the spade lug terminal packed with the remote annunciator. The spade lug terminal is connected to the base terminal as shown in Figure 5. It is not acceptable for three stripped wires to be under the same wiring terminal unless they are separated by a washer or equivalent means. The spade lug supplied with the model RA400Z is considered an equivalent means. See Figure 5 for proper installation.

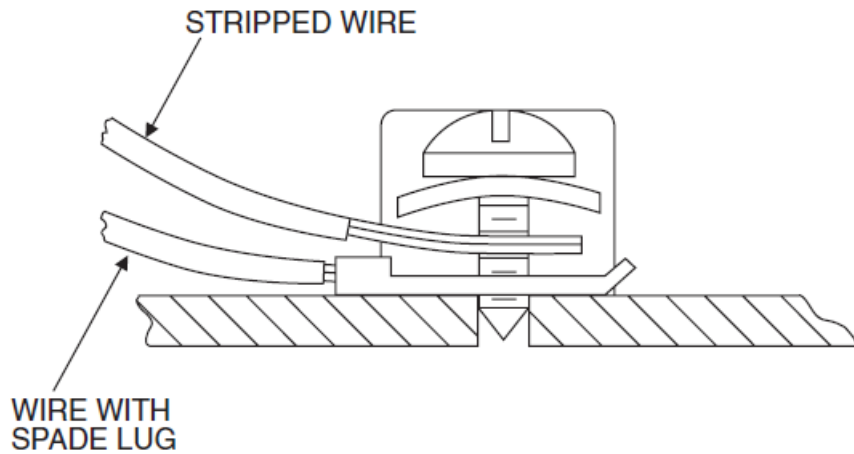


Figure 5: Connection to Remote Annunciator Terminal

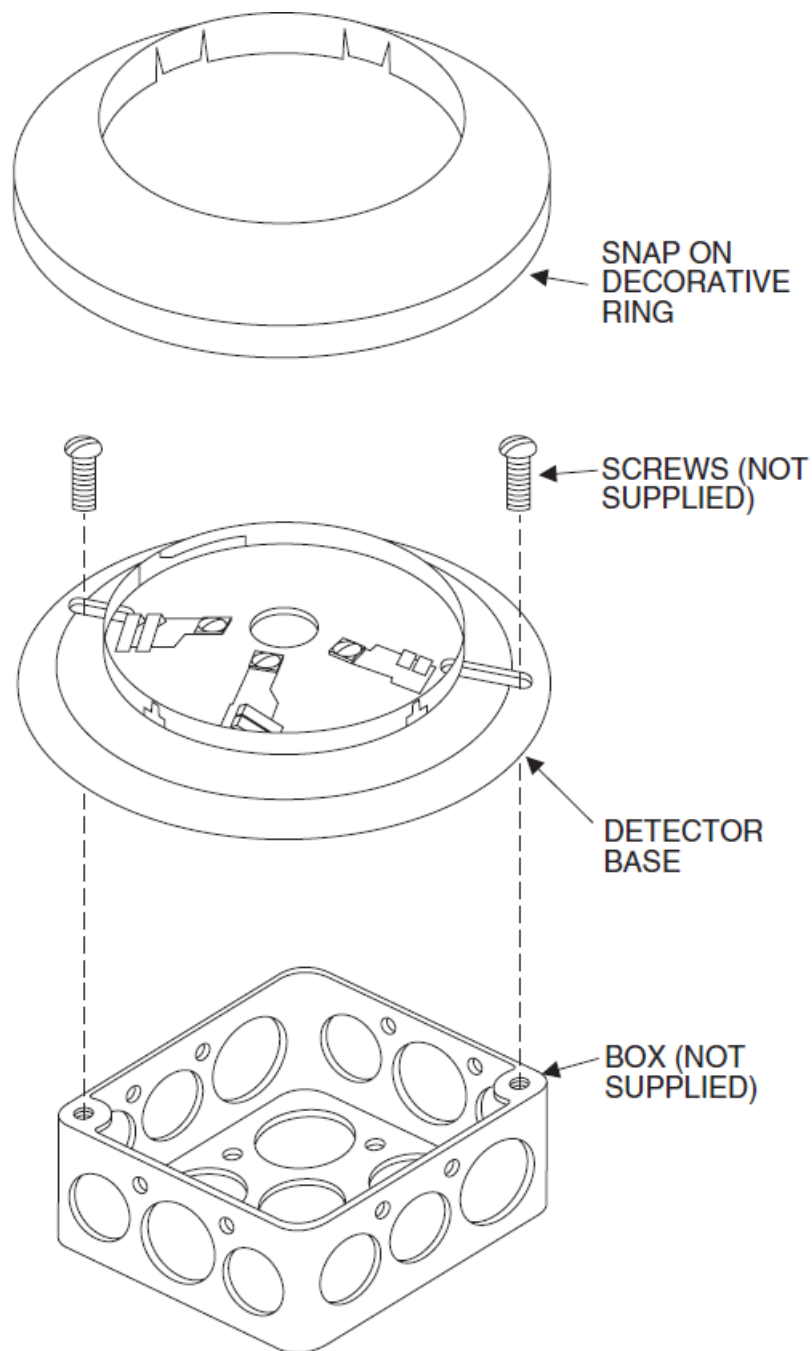
ELECTRICAL RATINGS

includes Base and Detector

- **Voltage Range:** 15 – 32 Volts DC Peak
- **Standby Current (nominal):** 150 μ A at 24 VDC

Power-up Surge At

- **Max. Rated Voltage:** 1.5 mA-sec.
- **LED Current (nominal):** 6.5 mA at 24 VDC



MOUNTING

This detector base mounts directly to 3-1/2 inch and 4 inch octagon boxes, 4 inch square boxes (with or without plaster rings) and single gang boxes. To mount, remove decorative ring by turning it in either direction to unhook the snaps, then separate the ring from the base. Install the base to the box using the screws supplied with the junction box and the appropriate mounting slots in the base. Place decorative ring onto base, then turn in either direction until the ring snaps in place (see Figure 2).

INSTALLATION WIRING GUIDELINES

All wiring must be installed in compliance with the National Electrical Code and all applicable local codes and any special requirements of the authority having jurisdiction, using the proper wire size. The conductors used to connect smoke detectors to control panels and accessory devices should be color-coded to reduce the likelihood of wiring errors. Improper connections can prevent a system from responding properly in the event of a fire. All wiring must be installed in compliance with the National Electrical Code and all applicable local codes and any special requirements of the authority having jurisdiction, using the proper wire size. The conductors used to connect smoke detectors to control panels and accessory devices should be color-coded to reduce the likelihood of wiring errors. Improper connections can prevent a system from responding properly in the event of a fire. For

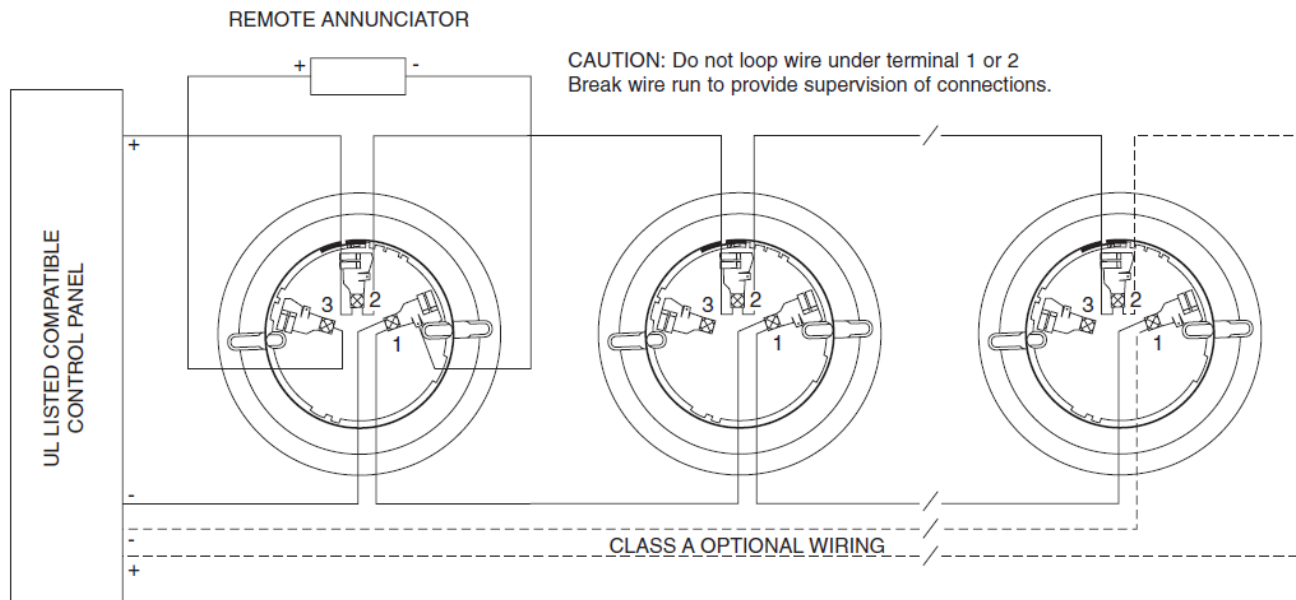
signal wiring (the wiring between interconnected detectors), it is recommended that the wire be no smaller than AWG 18. However, the screws and clamping plate in the base can accommodate wire sizes up to AWG 12. The use of twisted pair wiring or shielded cable for the power (+ and –) loop is recommended to minimize the effects of electrical interference.

If shielded cable is used, the shield connection to and from the detector must be continuous by using wire nuts, crimping, or soldering, as appropriate for a reliable connection.

Wire connections are made by stripping about 3/8" of insulation from the end of the wire (use strip gauge molded in base), sliding the bare end of the wire under the clamping plate, and tightening the clamping plate screw. Do not loop the wire under the clamping plate.

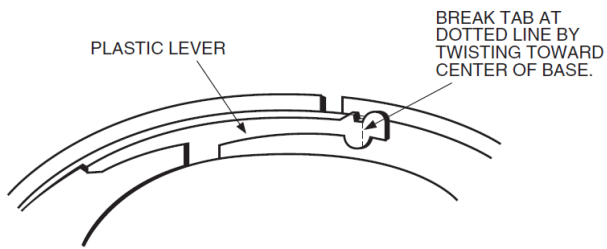
The zone wiring of the detector base should be checked before the detector heads are installed in them. The wiring should be checked for continuity and polarity in the base, and dielectric tests should be performed.

The base contains a label to write the zone, address, and type of detector to be installed at that location. This information is important to set the address of the detector head that will later be plugged into the base and to verify the type required for that location.



TAMPER-RESISTANCE

Note: Do NOT use the tamper-resistant capability if the XR2 or XR2B Removal Tool will be used. The Tamper Resistant Tab, in the Detector Mounting Bracket, can make the detector tamper-resistant by making it necessary to use a small screwdriver or similar tool to detach the detector from the base. To make the detector tamper-resistant, use needle-nose pliers to break the smaller tab at the scribed line on the tamper resistant tab. Figure 1 shows the location of this tab on the detector mounting bracket. To remove the detector from the base after it has been made tamper resistant, remove the decorative ring by rotating it in either direction and pulling it away from the base. Then, insert a small screwdriver into the notch, as indicated in Figure HB, and press the plastic lever toward the mounting surface before rotating the detector counterclockwise for removal.



C0130-00

Figure 4A. Enabling the Tamper-Resistant Capability

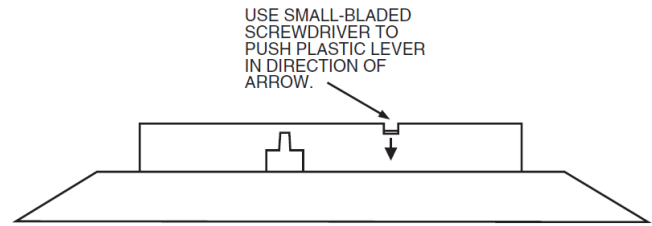


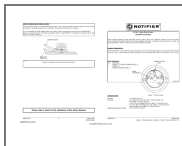
Figure 4B. Removing the Detector Head from the Base

Please refer to insert for the Limitations of Fire Alarm Systems

N550-05-00

www.PDF-Zoo.com
firealarmresources.com

Documents / Resources



[NOTIFIER B710LP Plug In Detector Base](#) [pdf] Instruction Manual
 B710LP, B710LP Plug In Detector Base, Plug In Detector Base, Detector Base

References

- [Fire Alarm Resources | Download fire alarm documents](#)