

TR-B224BI-WH, TR-B224BI-IV Plug-in Isolator Detector Base

TRIGA Life Safety Systems, LLC
7600 Olde Eight Rd.

Hudson, Ohio 4426-1057

Tel: +1 330-577-5199. Email: info@trigaglobal.com

SPECIFICATIONS

Base Diameter:	6.85 in (17.4 cm)
Base Height:	1.61 in (4.1 cm)
Operating Temperature Range:	Refer to the applicable sensor's operating temperature range provided in the sensor's installation manual.
Operating Humidity Range:	10% to 93% Relative Humidity (Non-condensing)

Electrical Ratings

Operating Voltage:	15 to 32 VDC
Standby Current:	450 µA Maximum
Isolation Current:	15 mA Maximum

BEFORE INSTALLING

Please read the *System Smoke Detector Applications Guide*, which provides detailed information on detector spacing, placement, zoning, wiring, and special applications. NFPA 72 guidelines should be observed.

NOTICE: This manual should be left with the owner/user of this equipment.

IMPORTANT: The detectors used with these bases must be tested and main-tained following NFPA 72 requirements. The detectors used with these bases should be cleaned at least once a year.

GENERAL INFORMATION

The TR-B224BI-WH and TR-B224BI-IV isolator bases intended for use in an intelligent system. Isolator bases prevent an entire communications loop from being disabled when a short circuit occurs. They accomplish this by isolating that part of the loop containing the short from the remainder of the circuit. These bases also automatically restore the entire loop when the cause of the short circuit is corrected. In general, up to 25 addressable devices may be isolated between isolator bases.

MOUNTING

Mount the mounting plate directly to an electrical box. The plate will mount directly to 4" (10.2cm) square (with and without plaster ring), 4" (10.2cm) octagon, 3 1/2" (8.9 cm) octagon, single gang and double gang junction boxes.

1. Connect field wiring to terminals, as shown in Figure 3 and 4.
2. Attach the mounting plate to the junction box as shown in Figure 2.
3. To mount the base, hook the tab on the base to the groove on the mounting plate.

4. Then, swing the base into position to engage the pins on the product with the terminals on the mounting plate.
5. Secure the base by tightening the mounting screws.
6. Install a compatible smoke detector as described in the installation manual for the detector.



Do not over tighten mounting plate screws; this may cause mounting plate to flex.

INSTALLATION GUIDELINES

All wiring must be installed in compliance with all applicable local codes and any special requirements of the local authority having jurisdiction, using the proper wire sizes. 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 18 AWG (0.823 mm²). However, wire sizes up to 12 AWG (3.31 mm²) can be used with the base.

Alarm system control panels have specifications for allowable loop resistance. Consult the control panel specifications for the total loop resistance allowed before wiring the detector loops.

Check the zone wiring of all bases in the system before installing detectors. This includes checking the wiring for continuity, correct polarity, ground fault testing, and performing a dielectric test.

FIGURE 1. TERMINAL DESIGNATION

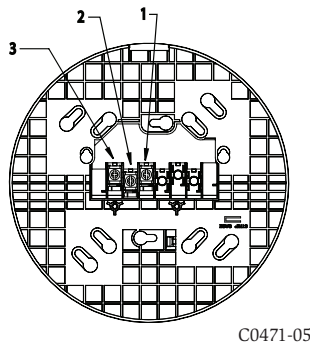
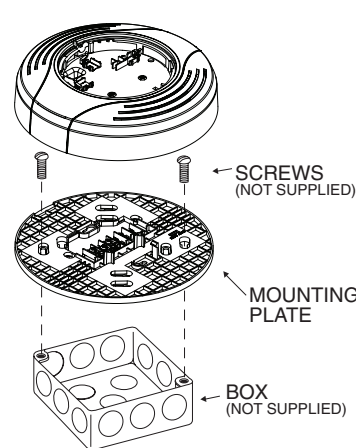


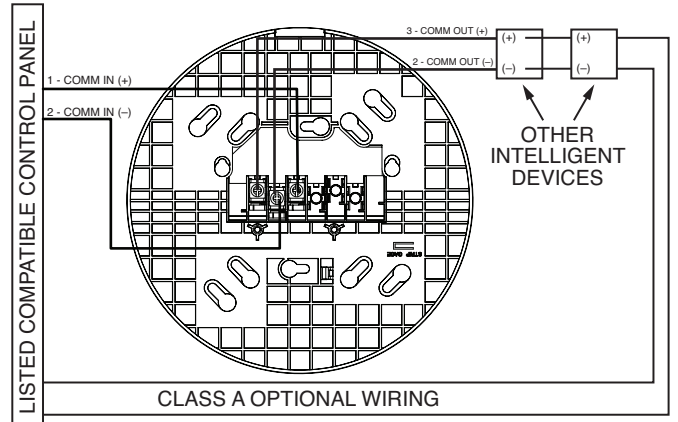
FIGURE 2. MOUNTING BASE TO ELECTRICAL BOX



TR-B224BI-WH/TR-B224BI-IV TERMINALS

No.	Function
1.	Positive (+) Comm. Line In
2.	Negative (-) Comm. Line In and Out
3.	Positive (+) Comm. Line Out

FIGURE 3.



C1003-01

