

# B501BI Plug-in Isolator Detector Base

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## SPECIFICATIONS

Model Number:	B501BI
Height:	20.3 mm
Diameter:	102.0 mm
Weight:	40 g
Operating Temperature Range:	-10°C ~ 55°C
Relative Humidity:	5% ~ 95 % RH
Operating Voltage Range:	15 ~32VDC
Standby Current:	< 150µA @24VDC
Protective Voltage:	≤4VDC
Reset Voltage:	≥7VDC
Active Current:	12mA @ 24VDC
Max Output Load:	1A @ 24VDC

## BEFORE INSTALLING

Before installing and using the product, please read the system wiring and installation manual thoroughly. If the products will be installed in an existing operational system, inform the operator and local authority that the system will be temporarily out of service, disconnect power to the control panel before installing the products.

This isolator base must be installed in compliance with the control panel installation manual and meet the requirements of the authority having jurisdiction. The installer must be familiar with these requirements, with local codes, and any special requirements of the authority having jurisdiction.

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

## GENERAL DESCRIPTION

The B501BI isolator base is designed for use with all System Sensor 200 series addressable detectors. The B501BI isolator base prevents an entire communications loop from being disabled when a short circuit occurs. It achieves this by isolating the part of the loop containing the short from the remainder of the circuit. The base will automatically restore the entire loop when the cause of the short circuit is corrected. In general, up to 50 addressable devices may be isolated between isolator bases.

FIGURE 1. APPEARANCE

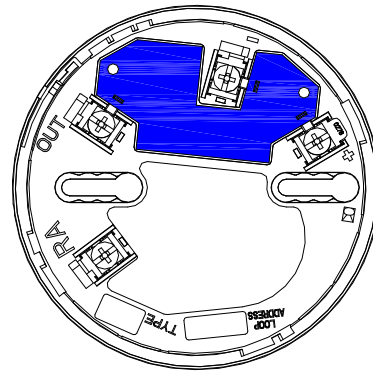
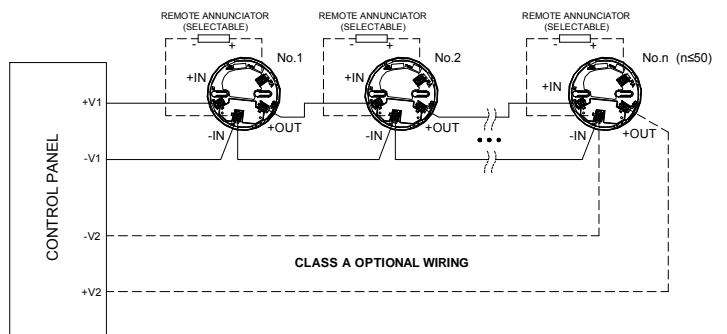


FIGURE 2. WIRING DIAGRAM



**WARNING**

Remove power from initiating-device circuits before installing the isolator base.

## WIRING INSTALLATION GUIDELINES

The B501BI isolator base is intended to use in an Intelligent System, There are four terminal blocks on the base (*Refer to Figure 1*).

- ' + IN' = Positive power supply input
- ' -IN' = Negative power supply input/output/ Negative remote annunciator output
- ' + OUT' = Positive power supply output
- ' RA ' = Positive remote annunciator output

**Note:** Refer circuit wiring diagram Figure 2.

**Note:** Please dispose electronic waste following national or local regulations after being scrapped or replaced. Do not discard.

## THREE-YEAR LIMITED WARRANTY

Xi'an System Sensor Electronics Ltd. warrants its enclosed 200 series isolator base to be free from defects in materials and workmanship under normal use and service for a period of three years from date of manufacture. Xi'an System Sensor Electronics Ltd. makes no other express warranty for this isolator base. No agent, representative, dealer, or employee of the Company has the authority to increase or alter the obligations or limitations of this Warranty. The Company's obligation of this Warranty shall be limited to the repair or replacement of any part of the isolator base which is found to be defective in materials or workmanship under normal use and service during the three year period commencing with the date of manufacture. After phoning Xi'an System Sensor for a Return Authorization Number and faxing a copy of the filled form

of CUSTOMER RETURNS with authorized RA# to Xi'an System Sensor Electronics Ltd. send defective units with a copy of the form postage prepaid to: Xi'an System Sensor Electronics, Ltd./ 28 Tuan Jie South Road/ Xi'an National Hi-tech Industrial Development Zone, 710075/ China. Please include a note describing the malfunction and suspected cause of failure. The Company shall not be obligated to repair or replace units which are found to be defective because of damage, unreasonable use, modifications, or alterations occurring after the date of manufacture. In no case shall the Company be liable for any consequential or incidental damages for breach of this or any other Warranty, expressed or implied whatsoever, even if the loss or damage is caused by the Company's negligence or fault.