



AX Series

INTELLIGENT ISOLATING BASES



Isolator & Base

Unique Features:

- Patented XPerT Addressing
- Short-Circuit Isolation
- Meets NFPA Style 7 Requirements
- Sub-Addressable Remote LED Output
- In-Out Terminals for Ease of Wiring
- Dedicated Terminal for Shielded Cable

Description:

Available in two versions, isolator only and isolating base for AX Series intelligent detector mounting, the Intelligent Isolating Bases offer superior SLC loop protection. The Intelligent Isolating Bases sense and isolate short-circuit faults associated with AX Series SLC loop wiring.

Under normal operation, the SLC loop power and communications are passed through the isolating base. If a short-circuit or an abnormally low line impedance occurs, the isolating base senses the drop in voltage and isolates the negative supply of the SLC loop, in the direction of the fault. The short-circuit fault will be indicated on the AX Series Intelligent Fire Alarm Control Panel's graphical display and on the isolating base via an illuminated yellow LED. If an intelligent detector is associated with an active short-circuited isolating base, the detector will continue to function properly. During the isolated condition the isolating base will continually test the circuit, and when the fault is rectified will *automatically restore* the isolated SLC loop to normal.

If an installation requires that no devices be lost in the event of a single short-circuit to an SLC loop ("true" NFPA Style 7 circuit), every device on the AX Series SLC loop should have an isolating base. In applications requiring minimal short-circuit protection (not necessary to provide a "true" NFPA Style 7), isolated areas can be created with one isolating base protecting a maximum group of twenty intelligent detectors/devices.

Isolating bases are specifically designed to enable "one-way only" intelligent detector insertion without the need for force. *Simply insert the detector and rotate clockwise.* Incorporating a high degree of protection against unauthorized removal of detectors, each base can be locked to it's associated detector by a mini-hexagonal screw.

All isolating bases have a wide interior diameter for *ease of access* for wiring to in-out terminals. Though not required for proper operation, each base has a dedicated earth connection terminal for clean, isolated, and continuity maintenance of an earth ground connection of wire shield when shielded cable is utilized.



Isolating Base

Features:

- UL 268 Listed
- Low-Profile Design
- 3" or 4" Square or Octagonal Electrical Box Mount
- "One-Way-Only" Detector Insertion
- Base to Detector Locking Mechanism



Product Data Sheet

Utilizing Advanced Fire System's unique method of addressing intelligent detectors, the **AX Series Isolating Base** incorporates a patented address ("XPerT") card. The address is quickly and easily set by removing "pips" on the XPerT card according to a chart supplied with each base. Once the address is set on the XPerT card, it is then slid into the base and locked in place. By addressing the **AX Series** detector in the base rather than in the detector, the all-too-common errors associated with detector removal and maintenance are eliminated.

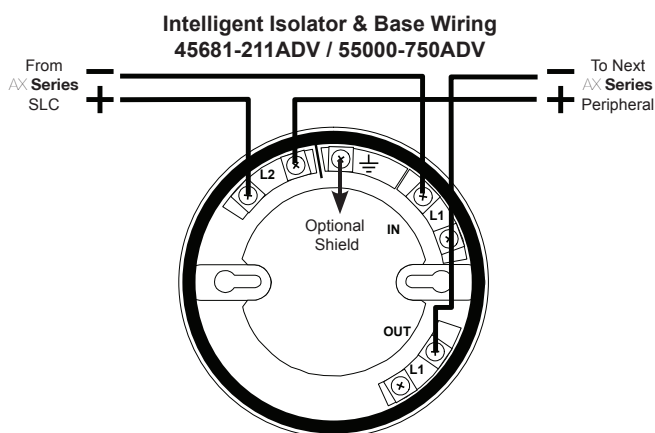
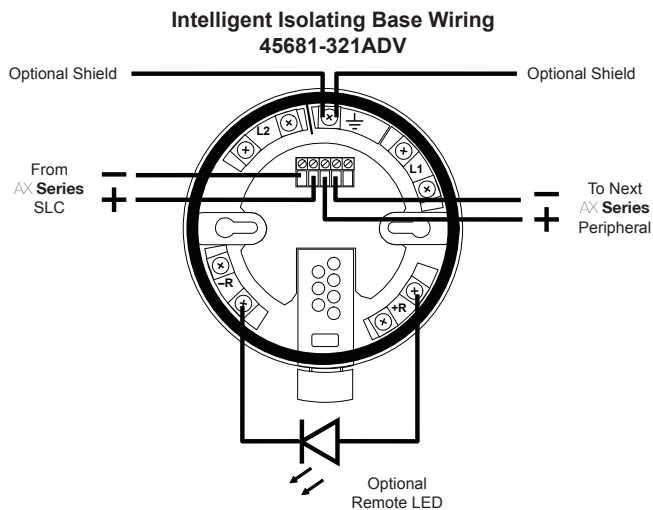


Each Intelligent Isolating Base has the capability of supporting a remote LED. The remote LED is sub-addressable and can be programmed to activate from any cause and effect program of the **AX Series** Intelligent Fire Alarm Control Panel.

The Intelligent Isolating Bases mount on 3" octagonal electrical boxes. To mount to 4" square or octagonal electrical boxes the optional Advanced Fire System's adapter kit is required.

Intelligent Detector Bases
Refer to **AX Series** Intelligent Detector Bases data sheet.

Ordering Information	
45681-321ADV	Isolating Base (fits 3" octagonal electrical box)
55000-750ADV	Isolator & Base (fits 3" octagonal electrical box)
45681-211ADV	
<i>Optional Adapter Kit:</i>	
38531-830ADS	Mounting Bracket
38531-829ADS	Trim Ring
* Refer to AX Series Intelligent Detector Bases data sheet for information and features pertaining to these products.	



Intelligent Isolating Bases Specifications	
Remote LED Output Current	5 mA (maximum)
Voltage	17 - 28 VDC
Environment	Indoor, Dry
Operating Temperature	32-120° F (0-48° C)
Humidity	10-93% (non-condensing)
Dimensions	4"D x 15/16"H
Weight	3.5 oz
Housing	Polycarbonate, 94 V0



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