

MOUNTING BASES

Intellia Mounting Bases

The Intellia series of products are all compatible with the ALC-board of an FX-panel.

Mounting Base EBI-10



All detectors in the Intellia range fit into EBI-10 mounting bases.

An earth connection is not required for either safety or correct operation of detectors. The ground (earth) terminal is isolated and is provided for tidy termination of grounded conductors or cable screens and to maintain earth continuity where necessary.

Bases have a wide interior diameter for ease of access to cables and terminals and there are two slots for fixing screws. The slots enable two fixing screws to be located at a spacing of 51 to 69 mm.

Detectors fit into bases one way only, without snagging, and require clockwise rotation without push force to be plugged in.

Universal patented address cards, known as ADDRESS cards, are supplied with all bases. Consult the separate coding datasheet to determine which pips are to be removed from the card to give the correct address. Lay the card on a flat surface, pips down, insert a screwdriver into the slot on the reverse of the pip to be removed and give a firm twist.

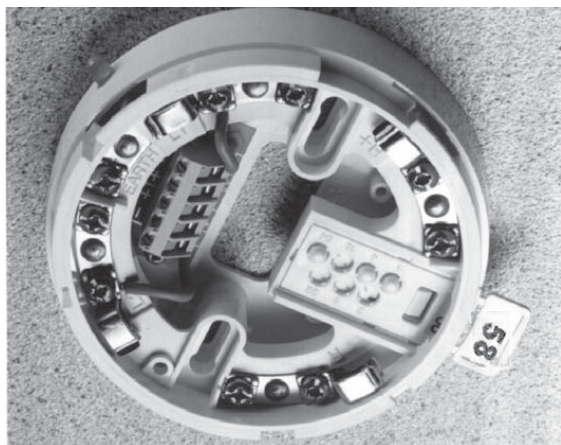
When the card is coded insert it into the slot in the side of the appropriate base, making sure that the card locks itself into place. As a detector is inserted into the base, the remaining pips operate the address buttons on the detector and the detector electronics reads the address

Mounting Base EBI-12



The Intelligent Deep Base is a mounting base for Intellia products which has an increased depth which allows for cables to be inserted into the side of the product.

Isolating Base EBI-11



The EBI-11 isolating base senses and isolates short circuit faults on FX Fire Detection Panel loops and is intended for use with Intellia detectors.

Features

The base is loop-powered, polarity sensitive and accepts the Address Card to set the associated device address.

In short-circuit conditions the integral yellow LED is illuminated. The detector associated with the base remains active under short-circuit conditions. Power and signals to the affected section are restored automatically when the fault is cleared.

Under normal operating conditions, a low impedance is present between the –IN and –OUT terminals of the base, so that power and signals pass to the next base in line.

If a short-circuit or abnormally low impedance occurs, the fall in voltage is sensed and the base isolates the negative supply in the direction of the fault. The isolated section is tested using a current pulse every five seconds. When the short-circuit is removed, the power will automatically be restored.

If it is a requirement that no device is lost in the event of a single short-circuit fault, every detector should be fitted to an isolating base.

In applications where it is not necessary to use an isolating base for each detector, up to twenty detectors may be installed between isolating bases.

Mechanical construction

The isolating base is a self-extinguishing polycarbonate moulding with nickel-plated steel terminals for connecting a detector. The associated detector can be locked into the base using the normal locking screw.

Relay Base EBI-20



The EBI-20 Low Power Relay Base, which is a development of the standard base, incorporates a relay to control field equipment.

Features

The EBI-20 Low Power Relay Base gives a set of voltfree changeover relay contacts controlled by the remote output of an Intellia detector. By using a latching relay coupled to an efficient drive circuit, the unit operates like a conventional relay while having negligible current drain.

The base also retains the facility to drive a remote LED which mimics the detector remote output.

Electrical considerations

The relay is controlled by the detector and must therefore be fitted with an operational Intellia detector to function.

The detector itself is powered via the base from the normal loop voltage of 14-28Vdc.

Note! The relay will also de-energise if power to the detector is removed.

Mechanical construction

The case is a white polycarbonate moulding, V-0 rated to UL94 with stainless steel low insertion force wiper contacts to supply power and signals to the detector.

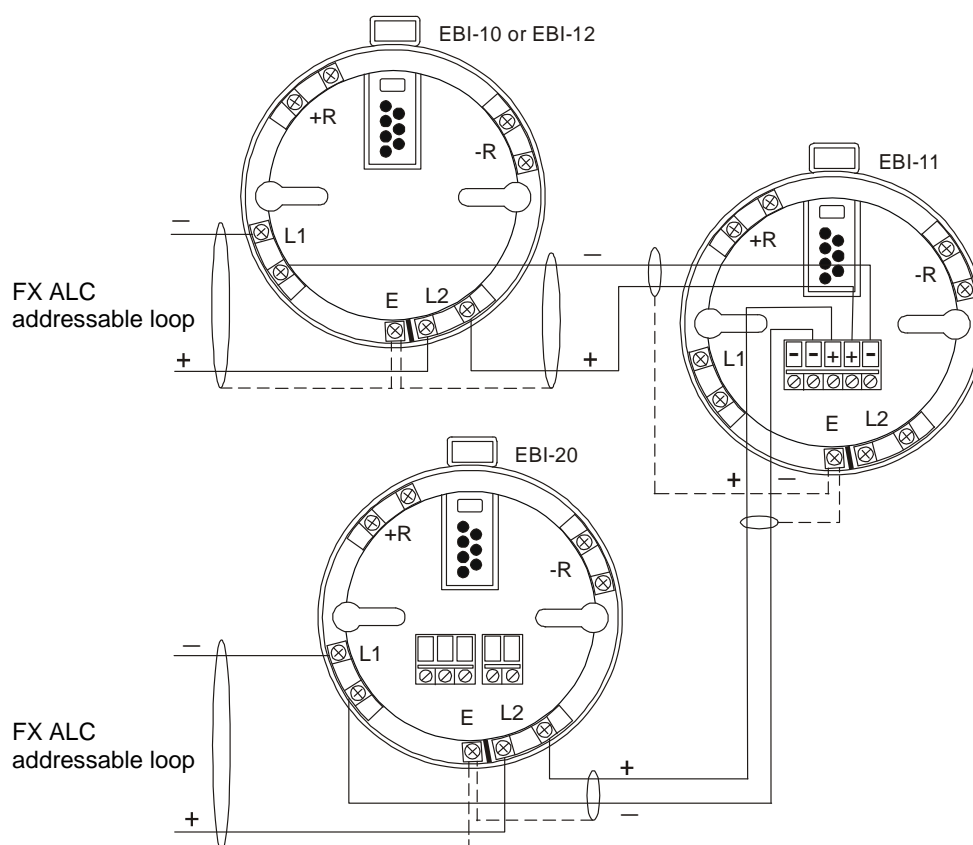
Important note! Unlike a conventional relay base, this device **MUST NOT** be used as a common output device for multiple detectors.

Technical data

Base	EBI-10	EBI-12	EBI-11	EBI-20
Description	Standard mounting base	Deep mounting base	Isolating base	Relay base
Operating voltage	17V – 28 VDC			
Minimum supply voltage in normal operating conditions	N/A	N/A	17 V	N/A
Isolation indicator	N/A	N/A	Yellow LED, lit continuously in isolation condition	N/A
Current consumption at 18 V at 28 V at 18 V and adjacent sector isolated	N/A	N/A	23 µA 43 µA 4 mA	N/A
Maximum line current non-isolating continuous transition into isolation	N/A	N/A	1,0 A 3,0 A	N/A
Current consumption at 24V DC: switch-on surge, 250 ms max. relay reset (de-energised) relay set (energised)	N/A	N/A	N/A	5 mA <1 µA 40 µA
Switching times (excluding polling): reset to set at 17 V at 28 V set to reset	N/A	N/A	N/A	125 ms 70 ms 22 ms
Contact rating at 30 VAC or VDC	N/A	N/A	N/A	1 A
Remote LED output	N/A	N/A	N/A	Supply voltage in series with 4,4kΩ resistor
EMC Emission Immunity	N/A	N/A	BS EN 50081–1 BS EN 50130–4	N/A
IP Rating	IP20			
Operating temperature	–20°C to +60°C			
Storage temperature	–30°C to +80°C			
Humidity (no condensation)	0%–95%			
Dimensions (Ø x h)	100 x 15 mm	100 x 23 mm	100 x 24 mm	100 x 24 mm
Weight	100 g			
Product code	0672 0010	0672 0012	0672 0011	0672 0020
Detectors	EDI-10 Ionisation Detector, product code 0672 0210 EDI-20, Optical Detector, product code 0672 0220 EDI-30, Multisensor, product code 0672 0230 EDI-50, Heat Detector, product code 0672 0250 EDI-60, CO- Detector, product code 0672 0260			

Pelco reserves the right to modifications.

Schematic Diagram & Wiring Connections

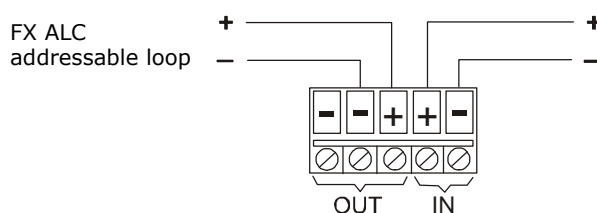


Mounting Bases EBI-10 or EBI-12

L1 = Loop -
 L2 = Loop +
 E = Screen
 -R = Negative connection to remote LED
 +R = Positive connection to remote LED

Isolating Base EBI-11

L1 = Not Used
 L2 = Not Used
 E = Screen
 -R = Negative connection to remote LED
 +R = Positive connection to remote LED



Relay Base EBI-20

L1 = Loop -
 L2 = Loop +
 E = Screen
 RL = Remote LED

Note:

Remote indicator LEDs are connected between R1 and R2 on the terminal block.
 The base terminals marked -R and +R must not be used for connection of a remote LED or any other device

