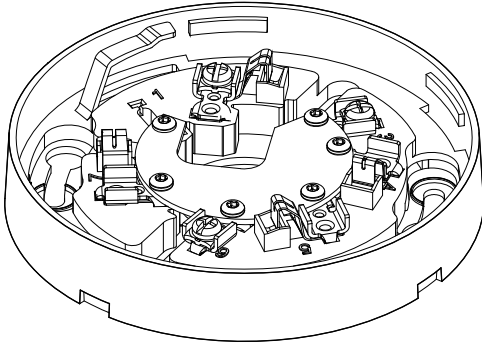


# SIGA-IB Detector Base Installation Sheet



## Description

The SIGA-IB is a Signature Series detector base with a built-in line fault isolator for use on a Class A signaling line circuit (SLC). It does not operate without a detector and does not support the SIGA-LED.

The isolator operates as follows: A short on the line causes all isolators to open within 23 ms; at 10 ms intervals, beginning on the side of the Class A circuit nearest the loop controller, the isolators close to provide the next isolator down the line with power; when the isolator next to the short closes, it reopens within 10 ms. The process repeats beginning on the other side of the loop controller.

## Installation

**Caution:** Risk of equipment damage. To prevent damage to the base, do not overtighten the base mounting screws or wire terminal screws. Refer to “Specifications” for torque values.

Refer to Technical Bulletin P/N 270145-EN for location and spacing requirements.

### To install the SIGA-IB:

1. Mount the SIGA-IB on a compatible electrical box using the screws provided with the electrical box.
2. Wire the base as shown in the “Wiring” section.
3. Write the address assigned to the detector on the label provided and apply the label to the inside rim of the base.
4. Use a SIGA-TS trim skirt to finish the installation as needed.

## Wiring

**Caution:** Risk of system failure. Electrical supervision requires that the wire run be broken at each terminal. Do not loop the field wires around the terminals.

### Notes

- Shielded wire is required only in environments with very high electrical noise.
- Shields, if used, must be continuous and insulated from ground.

### To wire the SIGA-IB:

1. Wire the detector base as shown in Figure 1.

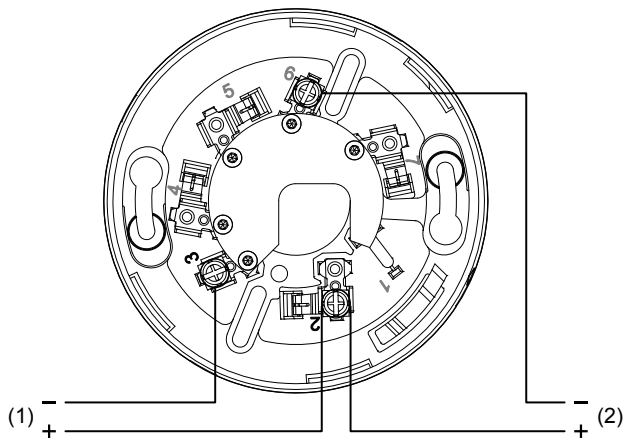
Break the wire run at each terminal. Do not loop the signaling line circuit field wires around the terminals.

2. Insulate the shield with electrical tape.

**SIGA-IB**



Figure 1: Wiring the SIGA-IB



- (1) SLC IN from previous device  
 (2) SLC OUT to next device

Table 1: Base terminals

Number	Description	Number	Description
1	Not used	5	Not used
2	SLC IN / OUT +	6	SLC OUT -
3	SLC IN -	7	Not used
4	Not used		

## Specifications

Circuit resistance between isolators	6 $\Omega$ max.
Wire size	12 to 18 AWG (1.0 to 4.0 mm <sup>2</sup> ) Sizes 16 and 18 AWG are preferred
Screw torque	
Base mounting	18 lbf-in (2.0 N·m) max.
Terminal	12 lbf-in (1.4 N·m) max.
Housing	High impact engineering polymer, white
Compatible detectors	Signature Series detectors
Accessories	SIGA-TS Four-Inch Box Trim Skirt/Ring
Compatible electrical boxes	North American single-gang box Octagon box 3-1/2 in. (89 mm) by 1-1/2 in. (38 mm) deep Octagon box 4 in. (102 mm) by 1-1/2 in. (38 mm) deep European single-gang box 75 mm with 60.3 mm fixing centers BESA box with 60.3 mm fixing centers
Operating environment	
Temperature	32 to 120°F (0 to 49°C)
Relative humidity	0 to 93% noncondensing
Technical bulletin	P/N 270145-EN

## Regulatory information

EU compliance



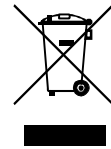
CPD certificates 0832-CPD-1313

EN 54-17 ratings

V max	19.95 VDC	Vsc min	17.59 VDC
V nom	19.0 VDC	IC max	0.147 A to 0.149 A
V min	15.2 VDC	IL max	0.1 mA
Vso max	17.64 VDC	IS max	0.75 A
Vso min	17.57 VDC	ZC max	400 m $\Omega$
Vsc max	17.70 VDC		

European Union directives

1999/5/EC (R&TTE directive): Hereby, UTC Fire & Security declares that this device is in compliance with the essential requirements and other relevant provisions of Directive 1999/5/EC.



2002/96/EC (WEEE directive): Products marked with this symbol cannot be disposed of as unsorted municipal waste in the European Union. For proper recycling, return this product to your local supplier upon the purchase of equivalent new equipment, or dispose of it at designated collection points. For more information see: [www.recyclethis.info](http://www.recyclethis.info).

## Contact information

For contact information see our website:  
[www.edwardsfiresafety.com](http://www.edwardsfiresafety.com).