SIGA-SB Detector Base Installation Sheet

Description
The SIGA-SB is the standard base for Signature Series detectors. It connects the detector to the signaling line circuit (SLC), and provides wiring terminals for connection to a SIGA-LED.

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-SB:
1. Mount the SIGA-SB 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.
• For Class B wiring, there is no shield connection to ground at the last device.

To wire the SIGA-SB:
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.
Figure 1: Wiring the SIGA-SB

(1) SLC IN from previous device.
(2) SLC OUT to next device.
(3) To SIGA-LED. Maximum resistance per wire is 10 Ω.

Table 1: Base terminals

<table>
<thead>
<tr>
<th>Number</th>
<th>Description</th>
<th>Number</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Not used</td>
<td>4</td>
<td>Remote LED −</td>
</tr>
<tr>
<td>2</td>
<td>SLC IN/OUT +</td>
<td>5</td>
<td>Remote LED +</td>
</tr>
<tr>
<td>3</td>
<td>Not used</td>
<td>6</td>
<td>Not used</td>
</tr>
<tr>
<td>4</td>
<td>SLC IN −</td>
<td>7</td>
<td>SLC OUT −</td>
</tr>
</tbody>
</table>

Specifications

- **Wire size**: 12 to 18 AWG (1.0 to 4.0 mm²) 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

North American standards
CAN/ULC-S529-09, UL 268, and UL 521

Contact information

For contact information, see www.est-fire.com.

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