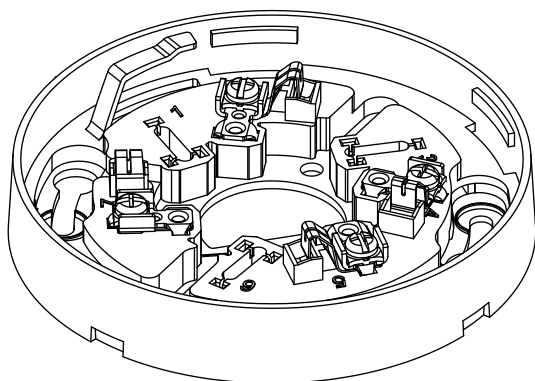# KC2-SB Standard Detector Base Installation Sheet

Description

The KC2-SB standard detector base is used to connect Optica KC2 series conventional detectors to compatible fire alarm initiating device circuits (IDCs). The detector base also provides terminals for connecting a remote alarm indicator.

Installation

Install this device in accordance with applicable national and local codes, ordinances, and practices.

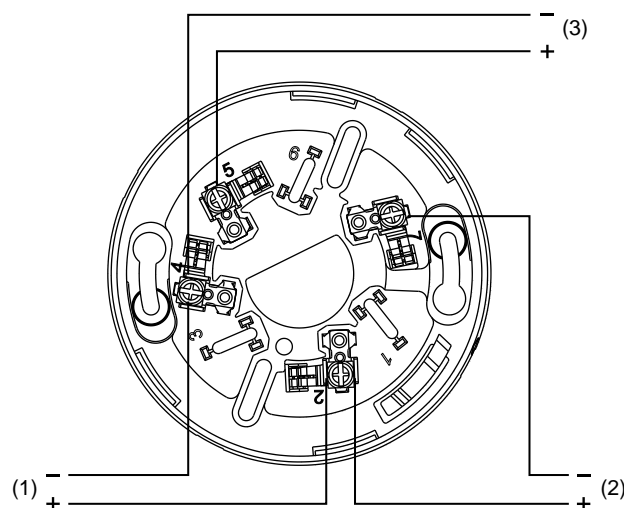Refer to technical bulletin P/N 3102650 for location and spacing requirements.

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.

- 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.

To install the detector base:

1. Attach the detector base to the electrical box using the screws provided with the electrical box. For compatible electrical boxes, see "Specifications."

2. Wire the detector base. See Figure 1 and Table 1.

3. If needed, attach a trim skirt to the detector base. Trim skirts are ordered separately. For compatible trim skirts, see "Specifications."

4. Place the dust cover onto the detector base. Do not remove until you are ready to install the detector.

Figure 1: Typical base wiring

(1) IDC_IN from previous device.
(2) IDC_OUT to next device.
(3) To remote alarm indicator. Maximum resistance per wire is 10 Ω.

Table 1: Base terminals

Number	Description	Number	Description
1	Not used	4	Remote LED −
2	IDC_IN/OUT +	5	Remote LED +
3	Not used	6	Not used
4	IDC_IN −	7	IDC_OUT −

Specifications

Wire size	12 to 18 AWG (1.0 to 4.0 mm²) Sizes 16 and 18 AWG are preferred
Screw torque Base mounting Terminal	18 lbf-in (2.0 N-m) max. 12 lbf-in (1.4 N-m) max.
Housing	High-impact engineering polymer, white
Base diameter [1]	4.4 in. (11.18 cm)
Base height from box	0.75 in. (1.9 cm)
Compatible detectors	Optica KC2 series conventional detectors
Accessories	GSA-TS or SIGA-TS4 trim skirt GSA-LED remote alarm indicator
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 Relative humidity	32 to 120°F (0 to 49°C) 0 to 93% noncondensing

[1] 5.5 in. (13.97 cm) with GSA-TS trim skirt. 6.62 in. (16.81 cm) with SIGA-TS4 trim skirt.

Contact information

For contact information, see www.kidde-esfire.com.