

B500 SERIES PLUG IN DETECTOR BASES

- *For use with System Sensor Series 200 and 200+ Analogue Addressable Fire Detectors*
- *Tamper Resist Feature*
- *Remote LED option*
- *Standard base for normal applications*
- *Deep base for use with cabling in surface mounted conduit*
- *Heated base for Cold / Anti-Condensation Applications*
- *Relay Base to Drive External devices*



GENERAL DESCRIPTION

B500 series plug in detector bases are designed for use with System Sensor Series 200 and 200+ analogue addressable fire detectors and their variants. Different options are available to suit the requirements of varying applications. All bases are supplied with a tamper resist feature to prevent removal of a detector head without the use of a tool, and terminals for the connection of a remote indicator.

BASE OPTIONS

Base Name	Description	Diameter (mm)	Height (mm)	Weight (g)
B501	Standard Detector Base	102	20	53
B501DG	Deep Detector Base	102	25.9	57
B524HTR	Detector base with Anti Condensation Heater	102	36	92
B524RTE	Relay Base	102	36	92

A short circuit isolator base, the B524IEFT-1 is also available for use with series 200 detectors, see separate datasheet for details.

Electrical specifications are given on specific detector data sheets

Figure 1: Standard and Deep Base Terminal Layout

B501 and B501DG Wiring Connections

Terminal	Connections
1	Loop (-) In and Out, Remote Annunciator (-)
2	Loop (+) In and Out
3	Remote Annunciator (+)
Shield	Screen

Maximum cable size: 2.5mm²

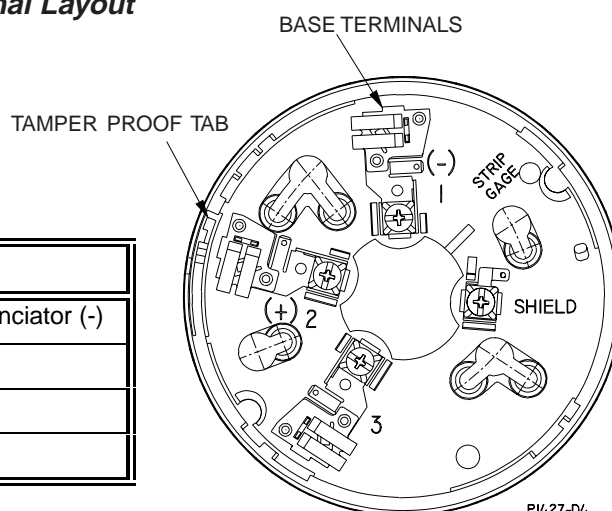
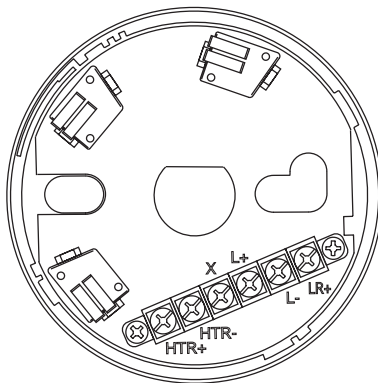


Figure 2: B524HTR Heater Base

The B524HTR heater base incorporates a number of heater resistors, driven from a separate supply designed to provide an element of heating to the detector to reduce condensation in very cold applications.

Power Supply: Up to 32V (ac/dc)
 Power at 24V: 1.9W
 Max. peak power: 4W
 Temperature Range: -30°C to 60°C
 Humidity Range: 10% to 93% RH

**B524HTR Wiring Connections**

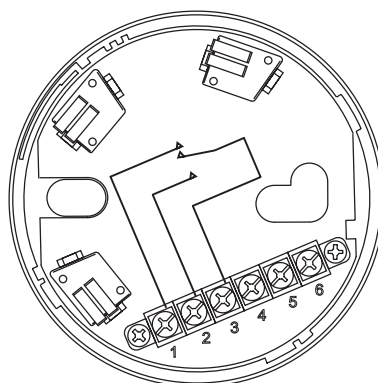
Terminal	PCB Label	Connections
1	HTR+	Heater Power Supply +
2	HTR-	Heater Power Supply -
3	X	Not Connected (Shield)
4	L+	Loop +
5	L-	Loop -
6	LR+	Remote Annunciator +

Maximum cable size: 2.5mm²

Figure 3: B524RTE Relay Base

Provides n/o or n/c contacts, which follow the detector LED, permitting external devices such as fire shutters or door releases to be activated.

Contact Rating: 2A at 30VDC
 Temperature Range: -10°C to 60°C
 Humidity Range: 10% to 93% RH

**B524RTE Wiring Connections**

Terminal	Connections
1	Relay Normally Closed
2	Relay Normally Open
3	Relay Common
4	Loop +
5	Loop -
6	Not Connected (Shield)

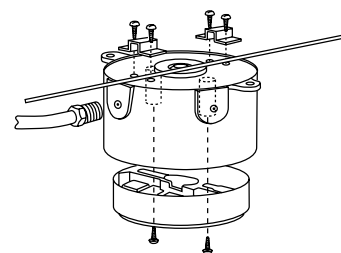
Maximum cable size: 2.5mm²

ACCESSORIES**WB1 Wet Base:**

Provides protection to the detector against water dripping from above, thereby increasing the ingress protection rating from approximately IP40 to IP42.

Appropriate glands must be used in conjunction with the wet base to ensure protection.

Diameter: 110mm
 Depth: 69mm
 Weight: 102g

**RMK400 Recess Mounting Kit**

Used to recess series 200 and 200+ detectors into suspended ceilings. The RMK400 will reduce the depth of the detector by approximately 20mm.

Interior Diameter: 102mm
 Exterior Diameter: 144mm
 Depth: 31mm
 Weight: 100g

**ADD-TAG Address Tag**

Self adhesive tag to affix visible address and zone information to detector base.

