RB-01
Conventional Relay Base

0370-CPR-7231

Description

RB-01 Conventional Relay Base is suitable for conventional DC-910xE series detectors. Plugged onto a detector, the base can give relay output signals.

Certificates and Compliance

- Standards: EN54-18, certified by Applus
- WEEE & RoHS compliant

Recommended Wiring

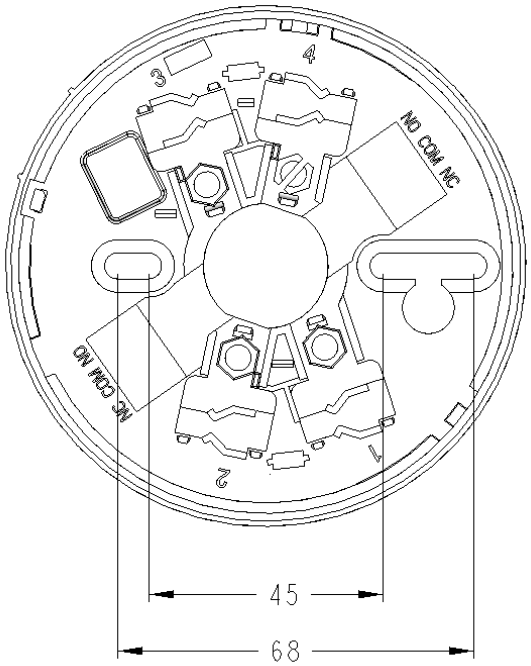
1.0mm^2 (17AWG) ~ 2.1mm^2 (14AWG) fire cable for terminal 1, 2, 3.

1.0mm^2 (17AWG) ~ 2.1mm^2 (14AWG) fire cable for relay output terminals laid through metal conduit or flame-retardant conduit, subject to local codes.

Technical Specification

Operating Voltage	Special Application 24Vdc(9.5Vdc~28Vdc)
Standby Current	≤10uA
Alarm Current	≤15mA
Relay switching capacity	1 A @ 30 VDC / 0.3A @ 125 VAC
Delay time of relay output after detector	400ms Max (depend on detector's control)
Alarm reset	2s Min, 1.0VDC Max
Operating Temperature	-20℃ - +65℃ 0 - 95%, non-condensing
Material and Color of Enclosure	ABS, white
Ingress Protection Rating	IP3X
Dimension	Diameter: 100mm Height: 21.3mm
Weight	73.8g

Terminals and Installation Holes



Terminal 1: As the relay base connects with a detector, this terminal should connect with the positive power, supplying for the detector.

Terminal 2: Used as output, connected with positive of next detector (Terminal 1);

Terminal 3: This terminal should connect with the negative power, supplying for the detector.

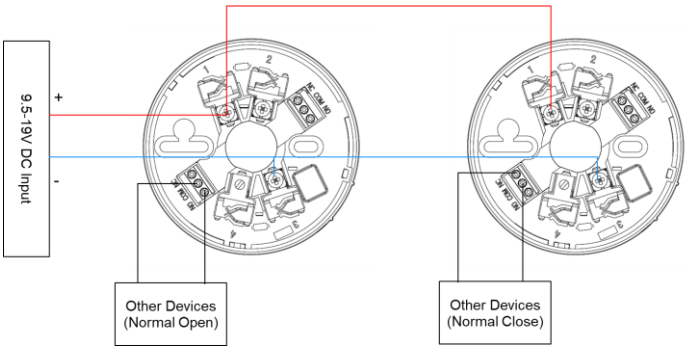
Terminal 4: The relay base connects to detector, shouldn't be connection use cable.

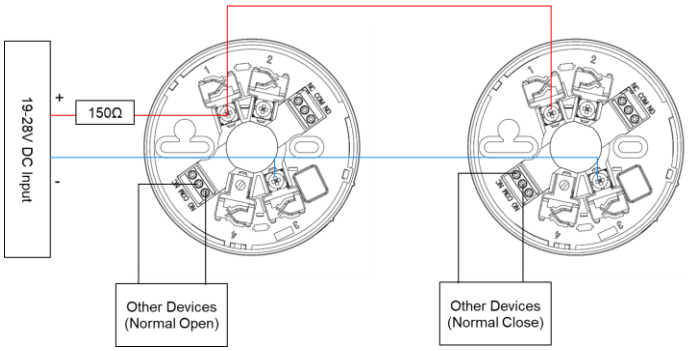
Relay output terminals: COM, NC and NO, provides SPDT relay output. In standby status, COM and NC are connected, while NO is isolated. After the detector connected with the relay base raises alarms, COM and NO are connected, and NC is isolated.

If the power needs end-of-line (EOL) resistor, it should be connected between terminals "2" and "3" of the loop's EOL base

System Configuration

Due to the power limitation of the internal alarm resistance of the conventional detector, it is necessary to connect the current limiting resistance when the voltage is higher than 19VDC. Please refer to the system diagrams shown below.





Order Information

Part No.	RB-01
Device Name	Conventional Relay Base
Product No.	20104124
Compatible Products	DC-9101E, DC-9101E-B, DC-9102E, DC-9103E