

INSTRUCTION S-BPR-S65



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- ⚠ Caution!** Read and understand the instruction before using the product.
- ⚠ Caution!** Ensure that the installation complies with local safety regulations.
- ⚠ Caution!** Before installation or maintenance, the power supply should first be disconnected. Installation or maintenance of this unit should only be carried out by qualified personnel. The manufacturer is not responsible for any eventual damage or injury caused by inadequate skills during installation, or through removal of or deactivation of any safety devices.

Function

Bases for S65 Detectors

Base for S65 detectors with built-in changeover relay (24 V AC)

These relay bases are intended for use with Regin S65-OE fire detectors. They must not be used with any other type of detector.

The relay base has one set of potential-free, changeover (form C) contacts that change state when the detector signals an alarm. The relay coil is connected across terminals L1 and L2. It is important that L1 is connected to the positive supply line from the control panel, see Figures 1 and 2.

The current-limited output at terminal R on Series 65 detector bases or relay bases can be used to drive an LED. The output voltage varies

between 6 and 33 volts. It is recommended that the LED current does not exceed 10 mA, but stays below 9 volts when the detector signals a fire alarm. Relay bases release quickly when the detector is removed.

Application

These relay bases are primarily intended for use with control panels that use 4-wire supply and alarm circuits. Where local regulations allow, they may also be used in 2- and 4-wire circuits to provide potential-free control signals to an auxiliary system, such as door release. If the control panel requires the function of the auxiliary system to be signalled in the event of a fire, it is important that the function is fail-safe.

⚠ Warning! These bases must be connected to a mains power source. The maximum voltage applied to the relay contact terminals must not exceed the limits for extra-low voltage: 50 V AC and 75 V DC.

4-wire system

Figure 1 4-wire zone circuit shows how these bases should be connected when Series 65 detectors are connected to a 4-wire supply and alarm circuit.

In this configuration, the relay coil is connected across L1 and L2, and the main relay is activated when the detector signals an alarm.

The initiating circuit is drawn as a fire alarm.

The supervisory relay in the EOL base is activated and opens its contacts when the base is powered.

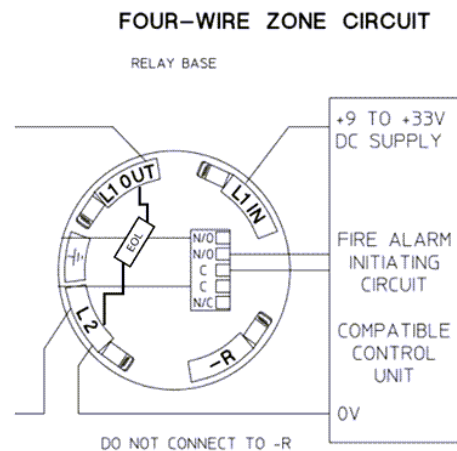


Figure 1 4-wire zone circuit

2-wire system

Do not connect a relay base to a 2-wire initiating circuit without approval from the fire control panel manufacturer.

Figure 2 2-wire zone circuit shows the Series 65 bases connected to a 2-wire supply and initiating circuit. In this configuration, it is important that the relay coil is connected across the conductors that change state when the detector signals an alarm. The coil must be connected to the positive supply line from the control panel.

Detectors go into alarm when the voltage at the base drops. To meet the requirement of 9 volts, the control panel must be able to maintain at least 9 volts at the relay operating voltage so that the function is always available during a fire.

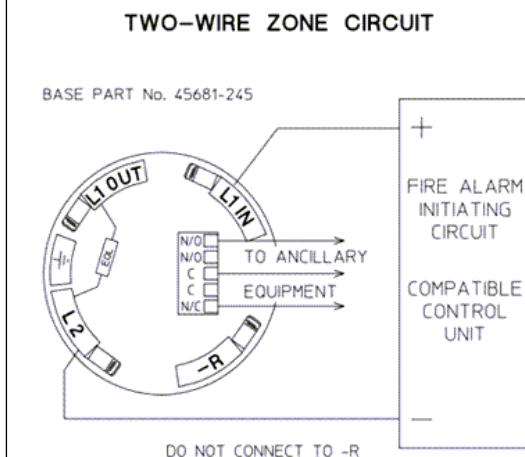


Figure 2 2-wire zone circuit

Installation

Before installing relay bases, check continuity, polarity, and insulation resistance of all wiring. Confirm that the installation meets the requirements of BS5839 Part 1, NFPA 72 and the Apollo Guide for correct use of system smoke detectors.

Mounting

Ensure that the mounting surface for the base is sufficiently flat. Attach the base to the surface or junction box with two screws.

Technical Data

Operating temperature	-30 °C to 70 °C
Humidity	0 to 95% RH, non-condensing
Material	White polycarbonate V-0 according to UL94

Relay data

Maximum switching	30 W, 50 VA
Maximum load	1 A resistive load
Maximum voltage	48 V AC, 75 V DC

Drop-out voltage

Drop-out voltage	1.6 V (minimum)
	15 mA at voltages above 9 V



This product carries the CE-mark. More information is available at www.regincontrols.com.

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