

Commissioning

It is important that the system be fully tested after installation.

Technical Data

Supply Voltage	9 to 15 V DC
Average Quiescent Current @	12V < 10µA
Relay Base Alarm Current (Relay Operated)	< 20mA @ 12V
Relay contact ratings	
Max. contact current	1A (resistive)
Max. contact voltage	< 50V AC & < 75V DC
Available modes	Non-Latching or Latching
Operating Temperature	-20°C to +70°C (Non-Condensing or Icing)
Connections	NC, C, NO, +, +, L1 IN & L1 OUT (-)
Base Size	100mm Diameter 25mm Deep
Weight	100 grams



Series 65 12V Relay Base Installation Guide

General

The Apollo Series 65 12V Relay Base part no. 45681-508 is a 12V relay base for use with Apollo Series 65 smoke and heat detectors only. The base is designed to operate over a voltage range of 9V to 15V DC.

The use of a 12V relay base means that standard (latching) smoke and heat detectors can be used for both non-latching and latching applications, such as security control panels.

Latching/Non Latching

The relay can be configured as latching or non-latching by means of an internal jumper link.

If the jumper is in the right hand position (**Fig.1**, Position A) the relay base is in the non-latching mode.

If the jumper is in the left hand position (**Fig 1**, Position B) the relay base is in the latching mode.

If the jumper is not fitted, the base will default to non-latching.

Operating Principle

The relay base receives an alarm signal from the associated detector which latches.

In latching mode, the detector and relay remain latched until reset by removing the supply.

In the non-latching mode, when the associated detector has latched in alarm, the relay base waits for approximately 15 seconds and then resets the detector by removing the supply automatically. The detector will re-enter the alarm state if there is sufficient smoke or heat present.

Mounting Instructions

1. Secure the base to an even surface.
2. Connect the wiring following the diagram overleaf.
3. Ensure functional earth or screen continuity is maintained using the earth terminal on the base if required.
4. Fit the appropriate detector and lock it to the base using a hexagonal driver part no. 29600-095 if required.

Wiring Details

All wiring terminals will accept solid or stranded cables up to 2.5mm²

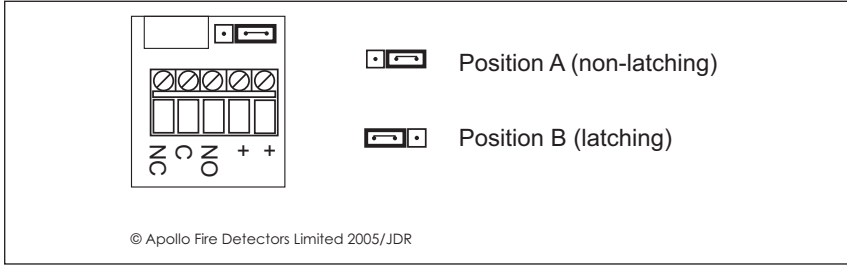


Fig 1 Latching and non-latching jumper positions

Note: Do not connect external wire to the -R terminal as this may prevent the relay base from functioning correctly.

Note: L1 IN / L1 OUT is negative, Positive to terminal block on PCB.

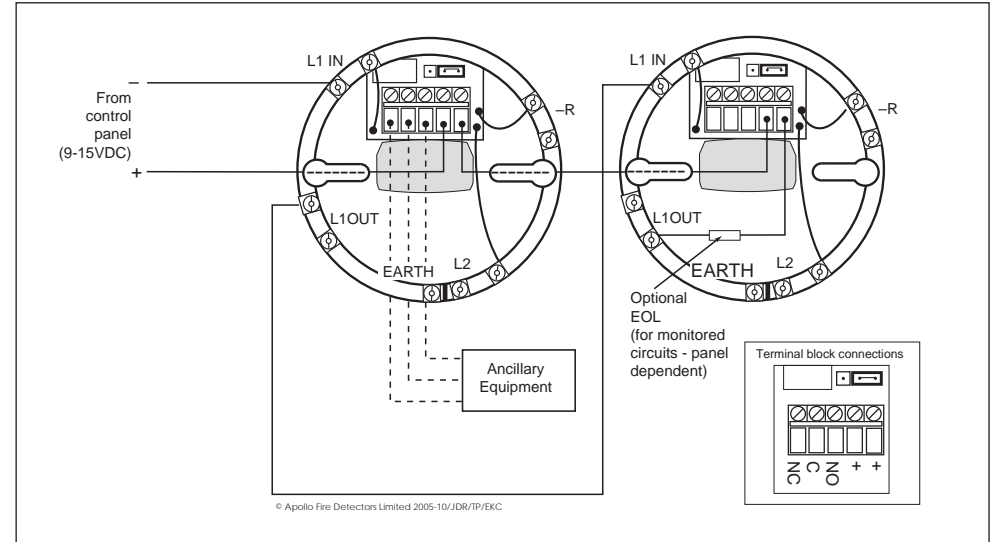


Fig 2 : Typical Two Wire System Wiring Diagram

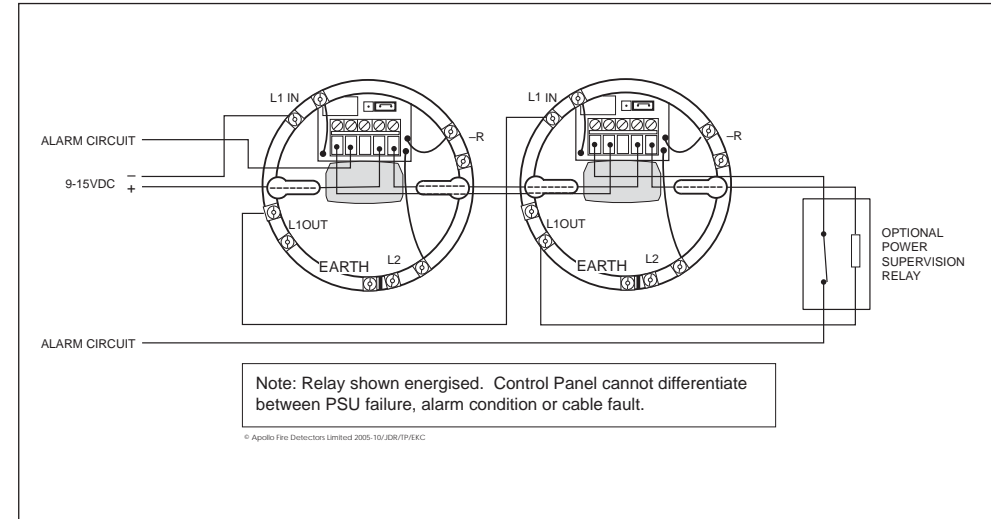


Fig 3: Typical Monitored Four Wire Security System Wiring Diagram