

XP95 LOW POWER RELAY BASE

FUNCTION

The XP95 Low Power Relay Base, which is a development of the standard XP95 base, incorporates a relay to control field equipment.

FEATURES

The XP95 Low Power Relay Base gives a set of volt-free changeover relay contacts controlled by the remote output of an XP95 detector. By using a latching relay coupled to an efficient drive circuit, the unit operates like a conventional relay while having negligible current drain.

The base also retains the facility to drive a remote LED which mimics the detector remote output.

ELECTRICAL CONSIDERATIONS

The relay is controlled by the detector and must therefore be fitted with an operational XP95 detector to function. The detector itself is powered via the base from the normal loop voltage of 14-28V dc.

PROTOCOL COMPATIBILITY

The base must be used with XP95 detectors connected to a control panel which supports the XP95 or Discovery digital protocol.

PROTOCOL BIT USAGE

Relay operation is controlled by transmitting the same XP95 protocol signals used to operate the remote output of an XP95 detector. The relay will energise after the detector has received two successive pollings with output bit 0 set to "1". The detector confirms the command by setting input bit 0 to "1".



Part no 45681-242

The relay will re-set (de-energise) after the detector has received two successive pollings with output bit set 0 set to "0".

Output bit 0 should be programmable from the panel to avoid unwanted resets due to limits placed on remote indicator commands.

Note: the relay will also de-energise if power to the detector is removed.

Other protocol bits are not related to the base function.

Technical Data

Supply voltage	17V–28V DC
Maximum current consumption at 24V	
switch-on surge, 250 ms max.	5mA
relay reset (de-energised)	<1µA
relay set (energised)	40µA
Switching times (excluding polling)	
reset to set at 17V	125ms
at 28V	70ms
set to reset	22ms
Contact rating at 30V AC or DC	1A
Remote LED output	Supply voltage in series with 4.4kΩ resistor
Operating temperature	–20° C to +70° C
Humidity (no condensation)	0%–95% RH

CE marked

Low Voltage Directive 73/23/EEC

No electrical supply greater than 50V AC or 75V DC should be connected to any terminal of this relay base

MECHANICAL CONSTRUCTION

The case is a white polycarbonate moulding, V-0 rated to UL94 with stainless steel low insertion force wiper contacts to supply power and signals to the detector.

Dimensions and weight of the Low Power Relay Base

100mm diameter x 24mm high	100g
100mm diameter x 50mm high (detector and base)	200g

EMC Directive 89/336/EEC

The XP95 Low Power Relay Base, Part No 45681-242, complies with the essential requirements of the EMC directive 89/336/EEC, provided that it is used as described in this PIN sheet.

A copy of the Declaration of Conformity is available from Apollo on request.

Conformity of the XP95 Low Power Relay Base with the EMC directive does not confer compliance with the directive on any apparatus or systems connected to it.

IMPORTANT NOTE: Unlike a conventional relay base, this device **MUST NOT** be used as a common output device for multiple detectors.

Wiring and connections – XP95 Low Power Relay Base

