

Intelligent Low Power Relay Base



Product overview

Product	Low Power Relay Base
Part No.	45681-242

Compliance



Product information



CAUTION: System compatibility

Unlike a conventional relay base, this device must not be used as a common output device for multiple detectors.

The Intelligent Low Power Relay Base, which is a development of the standard XP95 base and for indoor use only, incorporates a relay to control field equipment.

The Intelligent Low Power Relay Base gives a set of volt-free changeover relay contacts controlled by the remote output of a 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.

Technical data

All data is supplied subject to change without notice. Specifications are typical at 24V, 25°C and 50% RH unless otherwise stated.

Supply Voltage	17 V - 28 V dc
Maximum current consumption at 24 V	
Switch-on surge max 250 ms	5 mA
Relay reset (de-energised)	< 1 µA
Relay set (energised)	40 µA
Switching times (excluding polling)	
Reset to set at 17 V	125 ms
at 28 V	70 ms
Set to reset	22 ms
Contact rating at 30 V ac or dc	1 A
Remote LED output	Supply voltage in series with a 4.4 kΩ resistor
Operating temperature	-20°C to +70°C
Humidity (no condensing or icing)	0% to 95% RH
Standards and approvals	CPR, LPCB and VNIIP0
Dimensions	100 mm diameter x 24 mm height
Weight	100 g
Materials	
Housing	White flame-retardant polycarbonate
Terminals	Nickel plated stainless steel

Electrical operation

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

Protocol compatibility

The Intelligent Low Power Relay Base must be used with suitable detectors connected to a control panel that supports the XP95, Discovery or CoreProtocol® communication.

Protocol bit usage

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

36 Brookside Road, Havant
Hampshire, PO9 1JR, UK.

Tel: +44 (0)23 9249 2412
Fax: +44 (0)23 9249 2754

Email: sales@apollo-fire.com
Web: www.apollo-fire.co.uk

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

EMC Directive 2014/30/EU

The Intelligent Low Power Relay Base complies with the essential requirements of the EMC Directive 2014/30/EU, provided that it is used as described in this data sheet.

A copy of the Declaration of Conformity is available from the Apollo website: www.apollo-fire.co.uk

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

Construction Products Regulation 305/2011/EU

The Intelligent Low Power Relay Base complies with the essential requirements of the Construction Products Regulation 305/2011/EU.

A copy of the Declaration of Performance is available from the Apollo website: www.apollo-fire.co.uk

Low Voltage Directive 2014/35/EU

No electrical supply greater than 50 V ac or 75 V dc should be connected to any terminal of this relay base.

Intelligent low power relay base - wiring diagram

