

INPUT/OUTPUT UNIT WITH ISOLATOR

FUNCTION

The XP95 Input/Output Unit with Isolator provides two voltage-free, single pole, change-over relay outputs, a single monitored switch input and an unmonitored, non-polarised opto-coupled input.

FEATURES

The Input/Output Unit supervises one or more normally-open switches connected to a single pair of cables.

The Input/Output Unit is fitted with a bi-directional short-circuit isolator and will be unaffected by loop short-circuits on either loop input or output.

ELECTRICAL CONSIDERATIONS

The XP95 Input/Output Unit is loop powered and operates at 17-28V DC with protocol voltage pulses of 5-9V.

PROTOCOL COMPATIBILITY

The unit will operate only with control equipment using the Apollo XP95 or Discovery protocol.

MECHANICAL CONSTRUCTION

The Input/Output Unit is normally supplied with a backbox for surface mounting. It is also available without the backbox for flush mounting. Both versions are designed for indoor use only.

Four LEDs, two red and two yellow, are visible through the front cover of the enclosure.

One red LED is illuminated to indicate that the relay is set. The second red LED is illuminated to indicate that the switch input is closed.



Part no 55000-847

One yellow LED is illuminated whenever a fault condition (open or short circuit) has been detected.

The other LED is illuminated whenever the built-in isolator has sensed a short-circuit loop fault.

The enclosure is moulded from the same polycarbonate as Apollo detectors.

Dimensions and weight of Input/Output Unit (surface mount):

150 x 90 x 48mm

240g



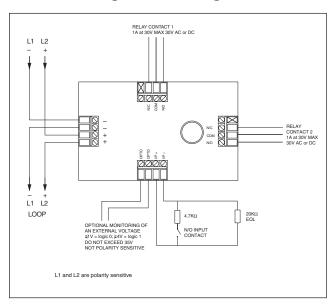




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Schematic Diagram and Wiring Connections



Maximum load

Technical Data		
Minimum loop operating voltage in normal conditions		
	17V DC	
Maximum loop operating voltage	28V DC	
Maximum current consumption at 24V DC no protocol		
Switch-on surge, max 150ms	3.5mA	
Quiescent, 20k Ω EOL fitted	1.25mA	
Switch input closed 'switch closed'	LED on	
	2.5mA	
Switch input closed (LED disabled)	1.5mA	
Any other condition (max 2 LEDs or		
Relay operated	2mA	
Relay operates	21171	
Switch input monitoring voltage	9-11V DC	
(open-circuit condition)		
(open enealt condition)		
Maximum cable resistance	50Ω	
Opto-coupled input		
maximum voltage	35V DC	
impedance	10kΩ	
Relay output contact rating	1A at 30V AC or DC	
(inductive or resistive)		
Relay output wetting current	10µA	
at 10mV DC		
On resistance	0.2Ω	
Maximum continuous current	1A	
Maximum switching current	3A	
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20 XP95/Discovery detectors

Operating temperature	−20°C to +70°C
Humidity (no condensation)	0-95%
Shock	
Vibration	to GEI 1-052
Impact J	Ε.4.
IP rating	54
L E Marked	

LOW VOLTAGE DIRECTIVE 73/23/EEC

No electrical supply greater than 50V AC rms or 75V DC should be connected to any terminal of this Input/ Output Unit.

EMC DIRECTIVE 89/336/EEC

The XP95 Input/Output Unit complies with the essential requirements of the EMC directive 89/336/EEC, provided that it is used as described in this PIN sheet and that the contact is not operated more than five times a minute or twice in any two seconds.