

XP95

Three Channel Input/Output Module



Product

Product	Three Channel Input/Output Module
Part No.	55000-588
Digital communication	XP95, Discovery and CoreProtocol® compatible

Compliance



Product information

The Three Channel Input/Output Module provides three voltage-free, single pole, change-over relay outputs and three monitored switch inputs.

- Uses a single address
- Individually monitored inputs
- Built-in isolator
- Flexible installation - cable entry knockouts on all four sides

Technical data

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

Supply voltage	17 V - 28 V dc
Modulation voltage	5 V - 9 V peak to peak
Digital communication protocol compatibility	XP95, Discovery and CoreProtocol
Maximum current consumption at 24 V dc	
LED enabled	
Switch-on surge current	6.5 mA
Quiescent, 20 kΩ EOL fitted	3.0 mA
Switch inputs closed	6.0 mA
Relays operated	5.5 mA
'Worst case', i.e. three switch inputs closed, three relays operated, six LEDs on	7.5 mA
LED disabled	
Switch-on surge, max 150 ms	6.5 mA
Quiescent, 20 kΩ EOL fitted	3.0 mA
Switch inputs closed	4.0 mA
Relays operated	3.5 mA
Switch input monitoring voltage (open-circuit condition)	9 V - 11 V
Maximum cable resistance	50 Ω
Relay output contact rating at 30 V ac or dc (inductive or resistive)	1 A
Relay output wetting current at 10 mV dc	10 μA
Isolator data	
Isolator rating - on resistance	0.2 Ω
Maximum continuous current	1 A
Maximum switching current	3 A
EDL	20
Product operating temperature	-20 °C to +70 °C
Humidity	0 - 95% RH
IP rating	IP54
Standards and approvals	EN 54-17, EN 54-18, CPR, LPCB, VdS
Dimensions	250 mm wide x 175 mm deep x 75 mm high
Weight	621 g
Material	Flame-retardant polycarbonate

Note: For further information on the isolator, refer to PP2090 - Short-circuit isolation - available from www.apollo-fire.co.uk

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Features

The Three Channel Input/Output Module supervises one or more normally-open switches on each of the three inputs. It is set to return an analogue value of four in the event of an open or short-circuit fault and 16 during normal operation. The status of the inputs is reported by three input bits.

The change-over contacts of each relay are operated by three command bits.

Ten LEDs, six red and four yellow, are fitted to the PCB. All LEDs except the isolator LED can be disabled to conserve loop current. The LEDs are disabled using the eighth segment of the DIL switch.

For each channel, one red LED is illuminated to indicate that the relay is set; a second red LED is illuminated to indicate that the switch input is closed and a yellow LED is illuminated to indicate an open or short-circuit fault.

A separate yellow LED is illuminated whenever the built-in isolator has sensed a short-circuit loop fault.

It is recommended that the LEDs are disabled for normal operation.

EMC Directive 2014/30/EU

The Three Channel Input/Output Module 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 Three Channel Input/Output Module with the EMC Directive, does not confer compliance with the directive on any apparatus or systems connected to them.

Construction Products Regulation (EU) 305/2011

The Three Channel Input/Output Module complies with the essential requirements of the Construction Products Regulation (EU) 305/2011.

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 rms or 75 V dc should be connected to any terminal of the Three Channel Input/Output Module.

Three Channel Input/Output Unit schematic diagram and wiring connections

