Intelligent Mains Switching Input/Output Unit



	verview

Product Mains Switching Input/Output Unit
Part No. SA4700-103APO

Digital Communication XP95®,Discovery® and CoreProtocol® compatible

Compliance













Product information

The Intelligent Mains Switching Input/Output Unit provides a single line tolerant circuit (CoreProtocol only) containing one or more normally open contacts connected to a single pair of cables. It also provides a voltage free change over relay output capable of switching mains.

Refer to Table 1 for digital communications protocol compatibility and Table 2 for the Intelligent Mains Switching Input/Output Unit operating modes.

- Improved design for ease of wiring meaning faster installation
- Contains controllable isolator *
- Address range 1 254 *
- Nine pre-configured modes, including compatibility mode from XP95/Discovery to CoreProtocol systems *
- Two input channels
- Failsafe mode (meets BS 7273-4 requirements)
- Configurable input styles *
- Earth fault monitoring *

Technical data

Supply voltage (Vmin-Vmax)

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

17-35 V dc

 Protocol
 5–13 V peak to peak

 Power-up surge current
 1.1 mA

 Quiescent current
 700 μA

 Max current LEDs On
 5.2 mA

 Max current LEDs disabled
 700 μA

Relay output contact rating 5 A at 30 V dc or 250 V ac

Isolator data Refer to the Short-Circuit Isolation

datasheet PP2090

Operating temperature -40°C to +70°C Humidity 0% to 95% RH

(no condensation or icing)

Vibration, impact and shock EN 54-17 and EN 54-18

IP rating IP54

Standards and approvals EN 54-17, EN 54-18, CPR, LPCB,

VdS, BOSEC, SBSC, FG

Dimensions 60 mm height x 150 mm width x

90 mm depth

Weight 301g

Table 1: Digital communications protocol compatibility

Protocol	Device Behaviour
XP95 [†] /Discovery [†]	XP95
CoreProtocol [†]	Soteria

 $^{^{\}dagger}$ Fire control panel dependant

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^{*} Note: CoreProtocol enabled systems feature only, please check with your system partner for availability.

Table 2: Intelligent Mains Switching Input/Output Unit operating modes*		
Mode	Description	
1	DIL Switch XP Mode	
2	Alarm delays	
3	Output and N/O input (can be equivalent for Output only)	
4	Output and N/C input	
5	Output with Feedback (N/C)	
6	FailSafe Output with Feedback (N/C)	
7	FailSafe Output without Feedback	
8	Momentary Input Activation Sets Output Relay	
9	Input Activation Sets Output	

^{*} CoreProtocol enabled systems only

Failsafe Mode

In Failsafe mode the Intelligent Mains Switching Input/ Output Unit will activate the on-board relay without being commanded by the control panel on loss of loop or protocol loss. Failsafe mode is selected via a DIL switch and indicated with an analogue value of 17.

Mechanical Construction

The Intelligent Mains Switching Input/Output Unit (see Figure 1) is available in the new faceplate style enclosure. This can be mounted with the supplied back-box for surface mounting or flush mounted using a UK double gang, flush mounting back-box of minimum depth 30mm.

EMC Directive 2014/30/EU

The Intelligent Mains Switching Input/Output Unit complies with the essential requirements of the EMC Directive 2014/30/EU, provided that it is used as described in this datasheet.

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

Conformity of the Intelligent Mains Switching Input/Output Unit with the EMC Directive, does not confer compliance with the directive on any apparatus or systems connected to them.

Construction Products Regulation 305/2011/EU

The Intelligent Mains Switching Input/Output Unit complies with the essential requirements of the Construction Products Regulation 305/2011/EU.

 $\ensuremath{\mathsf{A}}$ copy of the Declaration of Performance is available from Apollo on request.

Connectivity

Refer to Figures 2, and 3 for unit connection information. Refer to Installation Guide 39215-161 for the installation instructions on this product. Table 3 details the status indications of this unit, from normal operation through to fault conditions.

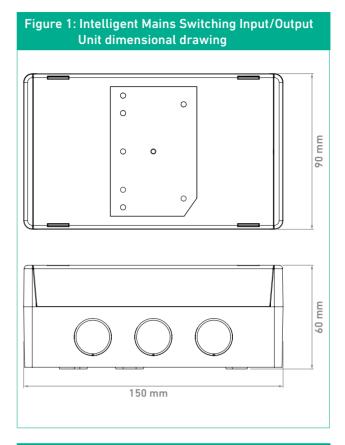
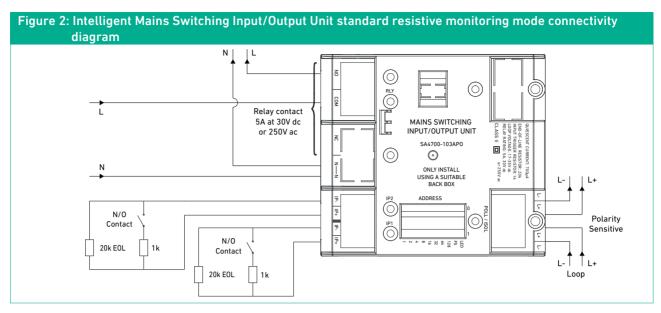
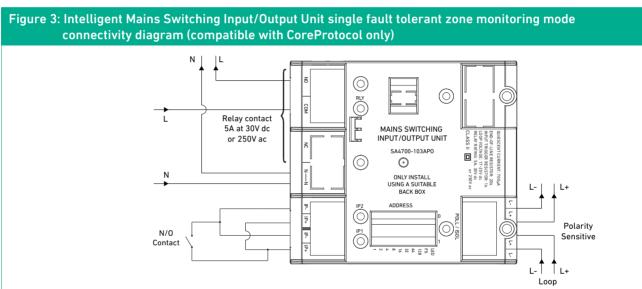


Table 3: Status Indications				
Legend	LED Status	Description		
RLY	Continuous Red	Relay Active		
RLY	Continuous Yellow	Relay Fault		
Poll/ISOL	Flashing Green	Polling LED		
Poll/ISOL	Continuous Yellow	Isolator LED		
I/P 1, IP 2	Continuous Yellow	Input Fault		
I/P 1, IP 2	Continuous Red	Input Active		





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