# Intelligent Input/Output Unit



Product overview		
Product Type	Input/Output Unit	
Part No.	SA4700-102APO	
Digital Communication Protocol	XP95 <sup>®</sup> /Discovery <sup>®</sup> & CoreProtocol <sup>®</sup> compatible	

#### **Product information**

The Intelligent Input/Output Unit provides supervision of one or more normally open contacts connected to a single pair of cables and a set of changeover relay output contacts.

Refer to Table 1 for digital communications protocol compatibility and Table 2 for the Intelligent 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 \*
- Failsafe mode (meets BS 7273-4 requirements)
- Configurable input styles \*
- Earth fault monitoring \*

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

### 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 (Vmin–Vmax)	17–35V dc
Protocol	5–13V peak to peak
Power-up surge current	900µA
Quiescent current	500µA
Max current LEDs On	3.5mA
<i>Max current LEDs disabled</i>	500µA
Relay output contact rating	1A at 30V dc or ac
Isolator data	Refer to 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 & EN 54-18
Standards & approvals	EN 54-17, EN 54-18, CPR and LPCB
Dimensions	60mm height x 150mm width x 90mm depth
Weight	244g

#### Table 1 Digital communications protocol compatibility

Protocol	Device Behaviour
XP95 <sup>+</sup> /Discovery <sup>+</sup>	XP95
CoreProtocol <sup>†</sup>	Soteria

<sup>+</sup> Fire control panel dependant

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Table 2	Intelligent 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		

#### **Mechanical Construction**

The Intelligent 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 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.

#### **Construction Products Regulation 305/2011**

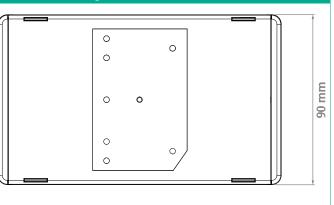
The Intelligent Input/Output Unit complies with the essential requirements of the Construction Products Regulation 305/2011.

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

#### Connectivity

Figures 2, 3 & 4 for unit connection information. Refer to the Installation Guide 39215-159 for the installation instructions on this product. Table 3 details the status indications of this unit, from normal operation through to fault conditions.

## Figure 1 Intelligent Input/Output Unit dimensional drawing



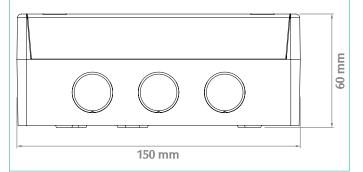
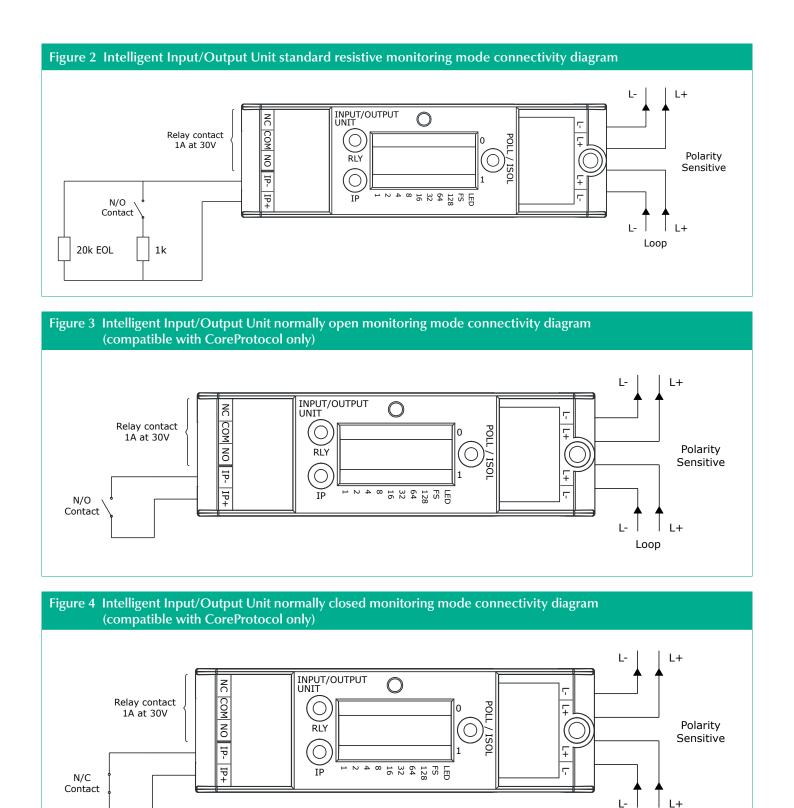


Table 3 Status Indications			
Legend	LED Status	Description	
RLY	Continuous Red	Relay Active	
RLY	Continuous Yellow	Relay Fault	
Poll/ISO	Flashing Green	Polling LED	
Poll/ISO	Continuous Yellow	Isolator LED	
I/P	Continuous Yellow	Input Fault	
I/P	Continuous Red	Input Active	



LPCB)







Loop