Intelligent Twin Input/Output Unit



Twin Input/Output Unit
SA4700-104APO
XP95®/Discovery® & CoreProtocol® compatible

Product information

The Intelligent Twin Input/Output Unit provides the function of two Input/Output Units within one enclosure. The two units are electrically independent of each other. There is a DIL switch on each unit to set the address.

Both input/output units in the enclosure provide supervision of one or more normally open volt free contacts connected to a single pair of cables and a set of changeover relay output

Refer to Table 1 for digital communications protocol compatibility and Table 2 for the Intelligent Twin 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 *

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	17–35V dc
(Vmin_Vmax)	

Protocol 5-13V peak to peak

Power-up surge current 900µA per Input/Output Unit Quiescent current 500µA per Input/Output Unit Max current LEDs On 3.5mA per Input/Output Unit Max current LEDs 500µA per Input/Output Unit

disabled

Relay output contact rating 1A at 30V dc or ac

Isolator data Refer to Short-Circuit Isolation

datasheet PP2090

 -40° C to $+70^{\circ}$ C Operating temperature

Humidity 0% to 95% RH (no condensation

or icing)

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

shock

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

Dimensions 60mm height x 150mm width x

90mm depth

Weight 281g

Table 1 Digital communications protocol compatibility

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

[†] Fire control panel dependant











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

Table 2	Intelligent Twin 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 Twin 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 Twin 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 Twin 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

Refer to Figures 2, 3 & 4 for unit connection information. Refer to the Installation Guide 39215-169 for the installation instructions on this product. Table 3 details the status indications of this unit, from normal operation through to fault conditions.

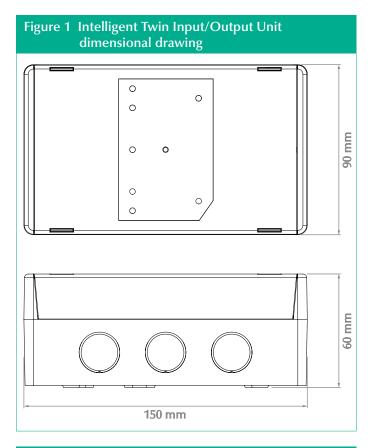


Table 3 Status Indications				
Legend	LED Status	Description		
RLY	Continuous Red	Relay Active		
RLY	Continuous Yellow	Relay Fault		
Poll/ISO	Flashing Green	Polling LED		
Poll/ISO	Continuous Yellow	Isolator LED		
I/P	Continuous Yellow	Input Fault		
I/P	Continuous Red	Input Active		





