Intelligent Input/Output Unit



Product overview		
Product Type	Input/Output Unit	
Part No.	SA4700-102AP0	
Digital Communication	XP95, Discovery and CoreProtocol compatible	

Compliance			
C€	(LPCB)	VdS	BOSEC
SBSC INTYGAD PRODUKT	FG		

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 *

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 (Vmin–Vmax) 17–35 V dc

Protocol 5–13 V peak to peak

Power-up surge current 900 μ A Quiescent current 500 μ A Max current LEDs On 3.5 mA Max current LEDs 500 μ A disabled

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

Isolator data Refer to Short-Circuit Isolation

datasheet PP2090

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

0% to 95% RH (no condensation or icing)

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

IP rating IP52

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 244 g

Table 1: Digital communications protocol compatibility			
Protocol	Device Behaviour		
XP95 [†] /Discovery [†]	XP95		
CoreProtocol [†]	Soteria		

[†] Fire control panel dependant

All information in this document is given in good faith but Apollo Fire Detectors Ltd cannot be held responsible for any omissions or errors. The company reserves the right to change the specifications of products at any time and without prior notice.









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

Table 2: Intelligent Input/Output Unit operating modes		
Mode	Description	
1	DIL Switch XP Mode	
2	Alarm delays	
3	Output and NO 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

In Failsafe mode the Intelligent Input/Output Unit will activate the on-board relay output 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 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.

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

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

Connectivity

Figures 2, 3 and 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.

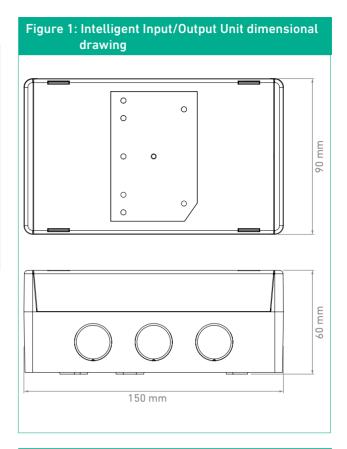


Table 3: Status Indications				
Legend	LED Status	Description		
RLY	Continuous Red	Relay Active		
RLY	Continuous Yellow	Relay Fault		
Poll/IS0	Flashing Green	Polling LED		
Poll/IS0	Continuous Yellow	Isolator LED		
I/P	Continuous Yellow	Input Fault		
I/P	Continuous Red	Input Active		

