# 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

Supply voltage

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

17-35 V dc

(Vmin–Vmax) **Protocol** 5–13 V peak to peak **Power-up surge current** 900 μA

Quiescent current 500  $\mu$ A Max current LEDs On 3.5 mA Max current LEDs 500  $\mu$ A disabled

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

Isolator data Refer to Short-Circuit Isolation

datasheet PP2090

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

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

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

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 $<sup>^{\</sup>ast}$  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	

<sup>\*</sup> 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.

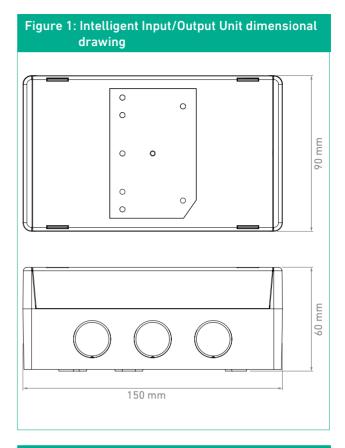
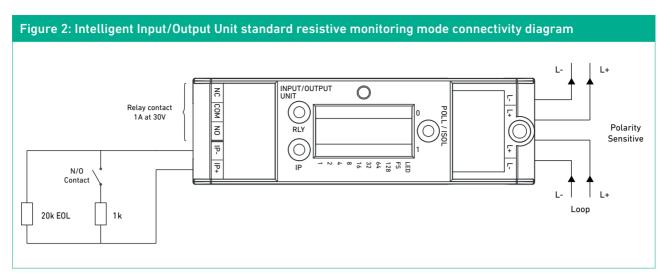
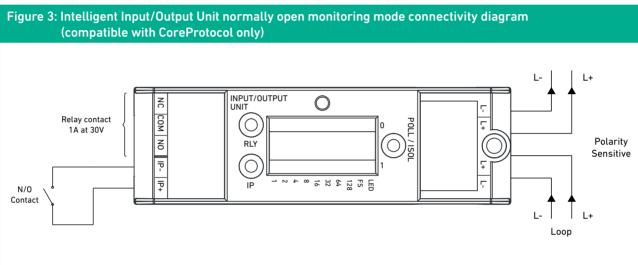
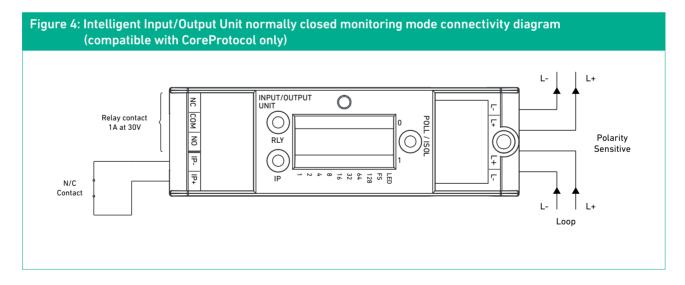


Table 3: Status Indications			
Legend	LED Status	Description	
RLY	Continuous Red	Relay Active	
RLY	Continuous Yellow	Relay Fault	
Poll/IS0	Flashing Green	Polling LED	
Poll/IS0	Continuous Yellow	Isolator LED	
I/P	Continuous Yellow	Input Fault	
I/P	Continuous Red	Input Active	







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