# Intelligent DIN-Rail Input/Output Unit



Product overview		
Product Type	Input/Output Unit	
Part No.	SA4700-302AP0	
Digital Communication	XP95, Discovery and CoreProtocol® compatible	

Compliance			
C€	LPCB.	VdS	BOSEC
SBSC INTEGA	FG		

## **Product information**

The Intelligent DIN-Rail Input/Output Unit provides supervision of one or more normally open volt free 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 DIN-Rail 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 \*

#### 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	17–35 V dc	
(Vmin-Vmax)		

**Protocol** 5–13 V peak to peak

Power-up surge current 900  $\mu$ A 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 the 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

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

VdS, BOSEC, SBSC, FG

Soteria

**Dimensions** 33 mm height x 102 mm width x

33 mm depth

Weight 49 g

# Table 1: Digital communications protocol compatibility Protocol XP95†/Discovery† XP95

† Fire control panel dependant

CoreProtocol<sup>†</sup>



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

Table 2: Intelligent DIN-Rail 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 Mode

In Failsafe mode the Intelligent DIN-Rail 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 DIN-Rail Input/Output Unit (see Figure 1) is designed to be mounted on a 35 mm width DIN-Rail inside an enclosure.

#### **CAUTION**

Unit Damage. This unit is not designed for outdoor use unless it is mounted in a suitable weatherproof enclosure.

#### EMC Directive 2014/30/EU

The Intelligent DIN-Rail 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 theIntelligent DIN-Rail 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 DIN-Rail 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

Refer to Figures 2, 3 and 4 for unit connection information. Refer to Installation Guide 39215-160 for the installation instructions on this product. Table 3 details the status indications of this unit, from normal operation through to fault conditions.

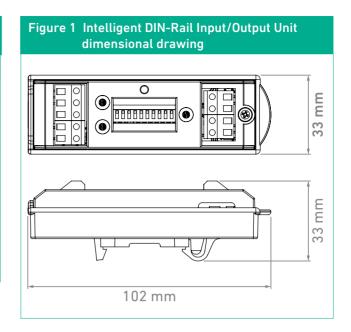


Table 3: Status Indications				
Legend	LED Status	Description		
RLY	Continuous Red	Relay Active		
RLY	Continuous Yellow	Relay Fault		
Poll/IS0	Flashing Green	Polling LED		
Poll/IS0	Continuous Yellow	Isolator LED		
I/P	Continuous Yellow	Input Fault		
I/P	Continuous Red	Input Active		

