# 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 current900 μAQuiescent current500 μAMax current LEDs On3.5 mAMax current LEDs500 μAdisabled

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	Device Behaviour	
XP95 <sup>†</sup> /Discovery <sup>†</sup>	XP95	

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

CoreProtocol<sup>†</sup>

36 Brookside Road, Havant Hampshire, PO9 1JR, UK.

Tel: +44 (0)23 9249 2412 Fax: +44 (0)23 9249 2754

Email: sales@apollo-fire.con
Web: www.apollo-fire.co.uk

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.













<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.

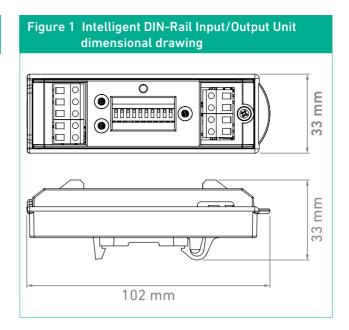


Table 3: Status Indications			
Legend	LED Status	Description	
RLY	Continuous Red	Relay Active	
RLY	Continuous Yellow	Relay Fault	
Poll/IS0	Flashing Green	Polling LED	
Poll/IS0	Continuous Yellow	Isolator LED	
I/P	Continuous Yellow	Input Fault	
I/P	Continuous Red	Input Active	

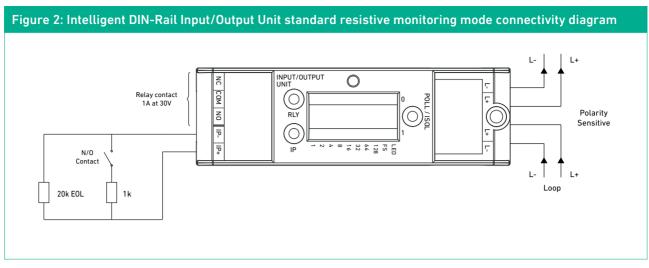


Figure 3: Intelligent DIN-Rail Input/Output Unit normally open monitoring mode connectivity diagram (compatible with CoreProtocol only) INPUT/OUTPUT UNIT NC COM Relay contact **-** $(\bigcirc$ 1A at 30V Polarity 8 RLY Sensitive IP- $(\bigcirc$ P LED FS 128 64 32 31 16 N/O Contact Loop

