

Intelligent DIN-Rail Input/Output Unit



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 (Vmin-Vmax)	17-35V dc
Protocol	5-13V peak to peak
Power-up surge current	900µA
Quiescent current	500µA
Max current LEDs On	3.5mA
Max current LEDs disabled	500µA
Relay output contact rating	1A at 30V dc or ac
Isolator data	Refer to the Short-Circuit Isolation datasheet PP2090
Operating temperature	-40°C to +70°C
Humidity	0% to 95% RH (no condensation or icing)
Vibration, impact and shock	EN 54-17 & EN 54-18
Standards & approvals	EN 54-17, EN 54-18, CPR and LPCB
Dimensions	33mm height x 102mm width x 33mm depth
Weight	49g

Product overview

Product Type	Input/Output Unit
Part No.	SA4700-302APO
Digital Communication Protocol	XP95®/Discovery® & CoreProtocol® compatible

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 *
- Earth fault monitoring *

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

Table 1 Digital communications protocol compatibility

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

[†] Fire control panel dependant

Intelligent DIN-Rail Input/Output Unit

Table 2 Intelligent DIN-Rail 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 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.

Construction Products Regulation 305/2011

The Intelligent DIN-Rail 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 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.

Figure 1 Intelligent DIN-Rail Input/Output Unit dimensional drawing

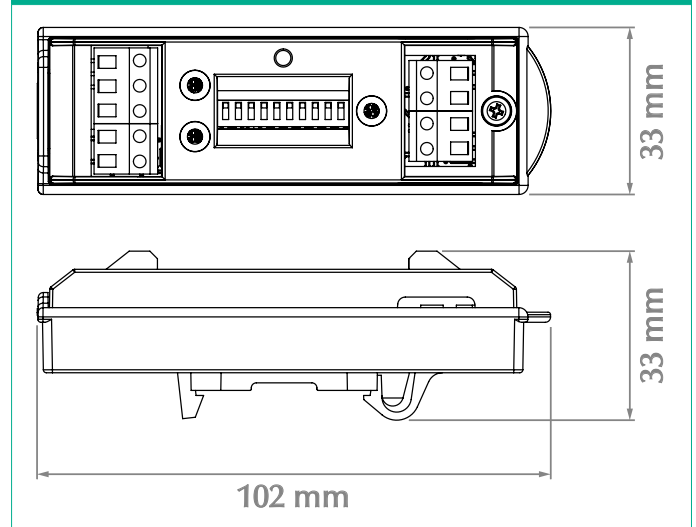


Table 3 Status Indications

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

Intelligent DIN-Rail Input/Output Unit

Figure 2 Intelligent DIN-Rail Input/Output Unit standard resistive monitoring mode connectivity diagram

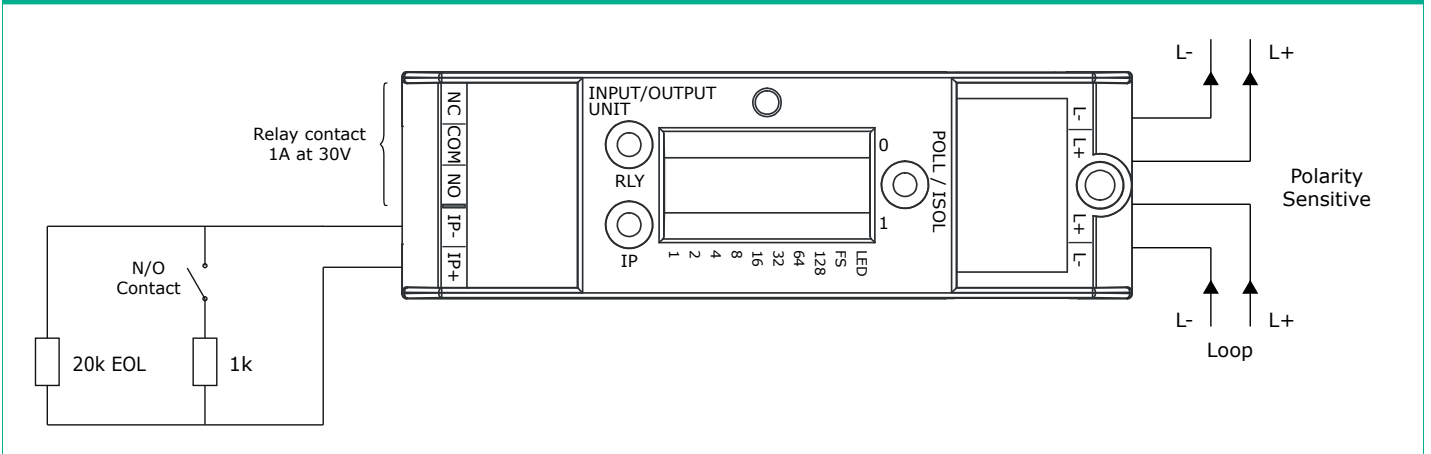


Figure 3 Intelligent DIN-Rail Input/Output Unit normally open monitoring mode connectivity diagram (compatible with CoreProtocol only)

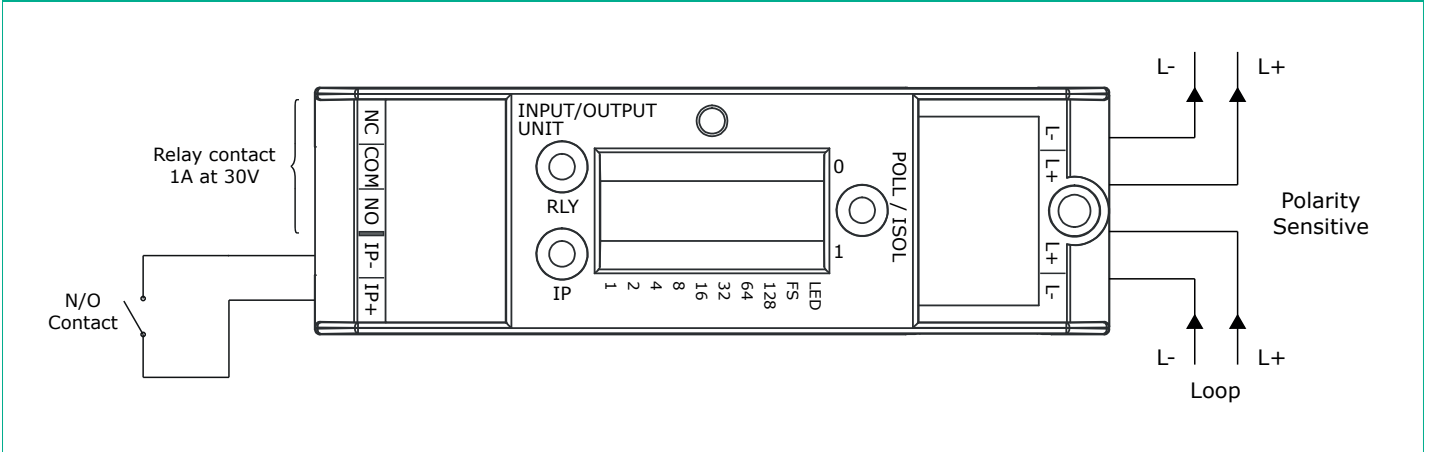


Figure 4 Intelligent DIN-Rail Input/Output Unit normally closed monitoring mode connectivity diagram (compatible with CoreProtocol only)

