Intelligent DIN–Rail Switch Monitor

Product overview

Product Type	Switch Monitor
Part No.	**SA4700-300APO**
Digital Communication Protocol	**XP95®/Discovery®and CoreProtocol® compatible**

Product information

The Intelligent DIN-Rail Switch Monitor is designed to monitor the state of one or more single pole, volt-free contacts connected on a single pair of cables and to report the status. It has a selectable status reporting delay making it suitable for monitoring flow switches.

Refer to Table 1 for digital communications protocol compatibility and Table 2 for the Intelligent DIN-Rail Switch Monitor operating modes.

- Improved design for ease of wiring meaning faster installation
- Contains controllable isolator *
- Address range 1 - 254 *
- Five pre-configured modes, including compatibility mode from XP95/Discovery to CoreProtocol systems *
- Priority mode for first response *
- Configurable input styles *
- Earth fault monitoring *

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

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 µA*
Quiescent current	*500 µA*
Max current LEDs On	*2 mA*
Max current LEDs disabled	*500 µA*
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, LPCB, VdS and BOSEC*
Dimensions	*33 mm height x 102 mm width x 33 mm depth*
Weight	*46 g*

Table 1: Digital communications protocol compatibility

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

[†] Fire control panel dependant

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Table 2: Intelligent DIN-Rail Switch Monitor operating modes*

Mode	Description
1	DIL Switch XP Mode
2	Switch monitor - normal resistance bands with alarm delays
3	Priority switch monitor - normal resistance bands
4	Switch monitor - N/C input with alarm delays
5	Priority switch monitor - N/C input

CoreProtocol enabled systems only

Mechanical Construction

The Intelligent DIN-Rail Switch Monitor (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 Switch Monitor 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 DIN-Rail Switch Monitor 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 Switch Monitor 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 & 4 for unit connection information. Refer to the Installation Guide 39215-164 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 Switch Monitor dimensional drawing

33 mm

33 mm

102 mm
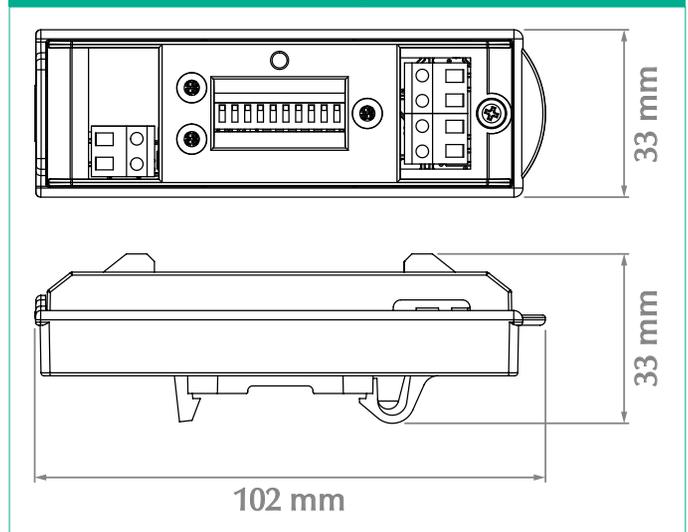
Table 3: Status Indications

Legend	LED Status	Description
Poll/ISOL	Flashing Green	Polling LED
Poll/ISOL	Continuous Yellow	Isolator LED
I/P	Continuous Yellow	Input Fault
I/P	Continuous Red	Input Active

Figure 2: Intelligent DIN-Rail Switch Monitor standard resistive monitoring mode connectivity diagram
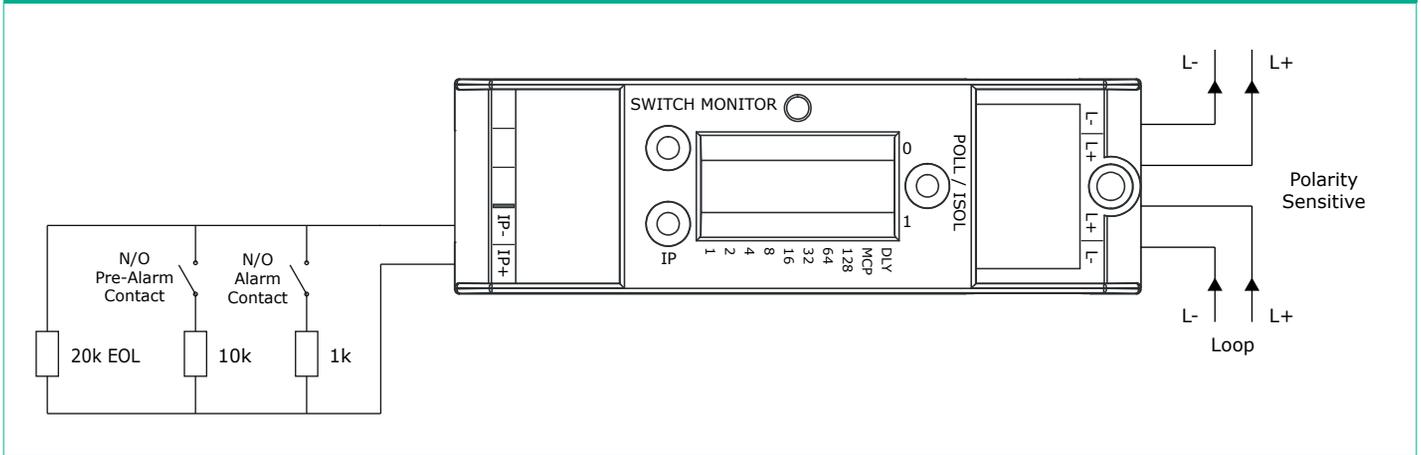
Figure 3: Intelligent DIN-Rail Switch Monitor normally open monitoring mode connectivity diagram (compatible with CoreProtocol only)
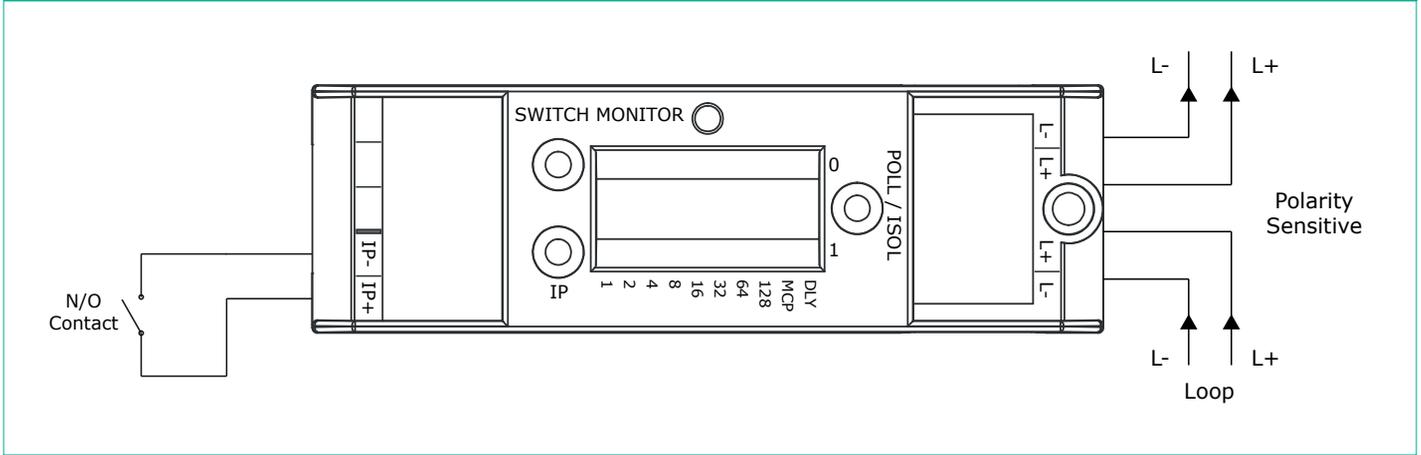
Figure 4: Intelligent DIN-Rail Switch Monitor normally closed monitoring mode connectivity diagram (compatible with CoreProtocol only)

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