

Intelligent DIN-Rail Input/Output Unit Installation Guide

Part No	Product Name
SA4700-302APO	Intelligent DIN-Rail Input/Output Unit

Technical Information

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

 Supply Voltage
 17-35V dc

 Quiescent Current
 500µA

 Power-up Surge Current
 900µA

Relay Output Contact Rating 1A at 30V dc or ac

LED Current 1.6mA per LED

Maximum Loop Current 1A (I_cmax; L1 in/out)

Operating Temperature -40°C to 70°C

Humidity 0% to 95% RH

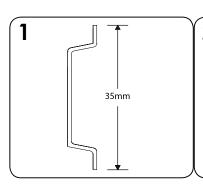
(no condensation or icing)

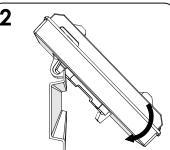
Approvals EN 54-17 & EN 54-18

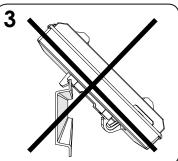
For additional technical information please refer to the following documents

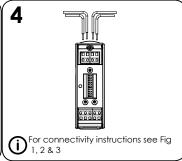
PP2559 - Intelligent DIN-Rail Input/Output Unit

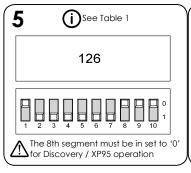
which are available on request.

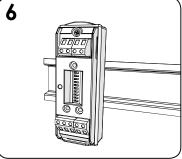












Addressing

Table 1

		XP95 / Discovery Systems	CoreProtocol Systems
Segment	1 2 3 4 5 6 7	Sets the address	Sets the address
	8	Set to '0' (Fault value is returned if set to '1')	
	FS	Enables failsafe mode (compliant with BS7273-4 for door holders)	Enables failsafe mode (compliant with BS7273-4 for door holders)
	LED	Enables/Disables LED (except Isolator LED)	Enables/Disables LED (except Isolator LED)

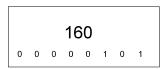
Note: On mixed systems addresses 127 and 128 are reserved. Refer to system's panel manufacturer for further information.

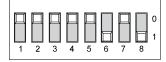
Address Setting Examples



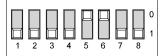












Connectivity **Examples**

Fig. 1 Standard resistive monitoring mode

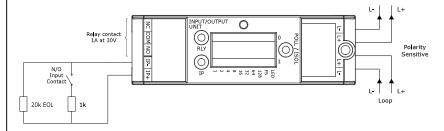


Fig. 2 Normally open monitoring mode (compatible with CoreProtocol only)

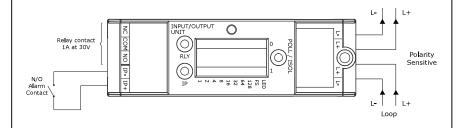
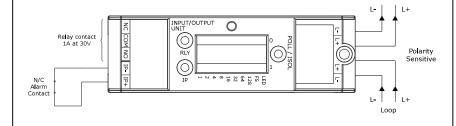


Fig. 3 Normally closed monitoring mode (Compatible with CoreProtocol only)



When operated under XP95 or Discovery Protocols, EN54-13 type 2 devices can be connected. In case EN54-13 type 1 devices need to be connected they must be installed directly next to this module, with no transmission path according to EN 54-13.

LED Status Indicator

RLY	Continuous Red	Relay Active	
KLI	Continuous Yellow	Fault	
POLL/	Flashing Green	Device Polled	
ISO	Continuous Yellow	Isolator Active	
IP	Continuous Red	Input Active	
I IF	Continuous Yellow	Input Fault	

Note:

Not all LEDs can be on simultaneously.

Commissionina

The installation must conform to BS5839-1 (or applicable local codes).

<u>Unit damage.</u> No electrical supply greater than 50V ac rms or 75V dc should be connected to any terminal of this Input/Output Unit. Note: For compliance with Electrical Safety Standards the sources switched by the output relays must be limited to a 71V transient over-voltage condition. Contact Apollo for moreinformation.

Troubleshooting

Before investigating individual units for faults, it is important to check that the system wiring is fault free. Earth faults on data loops or interface zone wiring may cause communication errors. Many fault conditions are the result of simple wiring errors. Check all connections to the unit.

Problem	Possible Cause
No response or missing	Incorrect address setting Incorrect loop wiring
Fault condition reported Relay fails to operate	Incorrect input wiring Incorrect wiring
kelay lalis to operate	Control panel has incorrect cause
ay energised continuously	and effect programming Incorrect loop wiring
Anglagua valua unstabla	Incorrect address setting

Relay energised continuously Dual address Analogue value unstable

Loop data fault, data corruption Incorrect wiring Incorrect end-of-line resistor fitted Incompatible control panel Constant Alarm

software Isolator LED on Short-circuit on loop wiring Wiring reverse polarity

Too many devices between isolators

Mode Table*

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 (1st input N/C, 2nd input N/O)
6	Failsafe Output with Feedback (1st input N/C, 2nd input N/O)
7	Failsafe Output without Feedback
8	Momentary Input Activation Sets Output Relay
9	Input Activation Sets Output

*CoreProtocol enabled systems only

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