

Intelligent Twin Switch Monitor Installation Guide

Part No	Product Name
SA6700-100APO	Intelligent Twin Switch Monitor

Technical Information

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

The following specifications relate to each of the individual internal units.

 Supply Voltage
 17-35V dc

 Quiescent Current
 500µA

 Power-up Surge Current
 900µA

LED Current 1.6mA per LED

Maximum Loop Current 1A

(I_cmax; L1 in/out)

Operating Temperature -40°C to 70°C

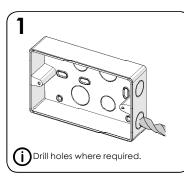
Humidity 0% to 95% RH

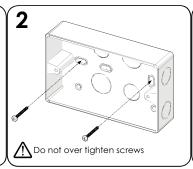
(no condensation or icing)

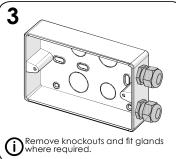
Approvals EN 54-17 & EN 54-18

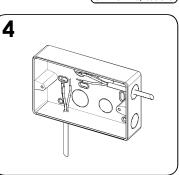
For additional technical information please refer to the following documents which are available on request.

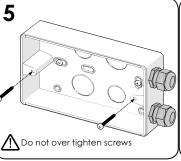
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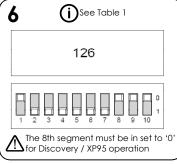


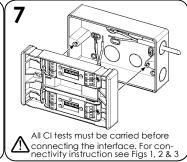


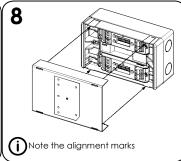


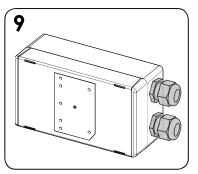












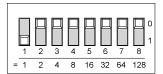
Addressing

Table 1

		XP95 / Discovery Systems	CoreProtocol Systems
	1		
	2		Sets the address
	3		
ŧ	4	Sets the address	
me	5		
Segr	6		
Š	7		
	8	Set to '0' (Fault value is returned if set to '1')	
	MCP	Priority interrupt - enables MCP behaviour	Enables priority enabled switch monitor behaviour
	DLY	Enables 30 second delay into alarm	Enables 30 second delay into alarm

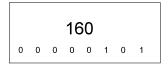
Note: On mixed systems addresses 127 and 128 are reserved. Refer to system's panel manufacturer for further information.

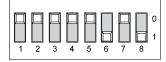
Address Setting Examples















Connectivity Examples

Fig. 1 Fully Monitored

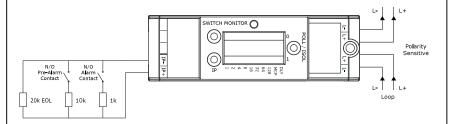


Fig. 2 Unmonitored (S/C for Alarm) (Compatible with CoreProtocol only)

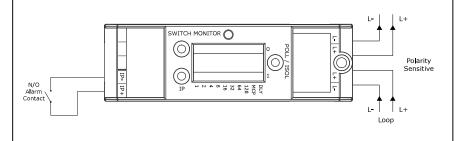
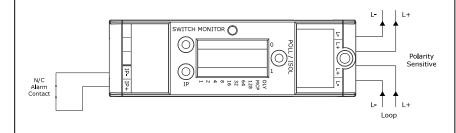


Fig. 3 N/C Monitored Circuit (Compatible with CoreProtocol only)



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

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

Note:

Not all LEDs can be on simultaneously.

Commissioning

The installation must conform to B\$5839-1 (or applicable local codes).

Maintainence

Removal of the external cover must be carried out using a flat screwdriver or similar tool.

Caution

<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.

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 Fault condition reported Analogue value unstable Constant alarm or pre-alarm

Incorrect address setting Incorrect loop wiring Incorrect input wiring Incorrect end-of-line resistor fitted Dual address

Loop data fault, data corruption Incorrect wiring Incorrect end-of-line resistor fitted

Isolator LED on Short-circuit on loop wiring Wiring reverse polarity
Too many devices between isolators

Mode Table*

	ioue rubie		
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

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