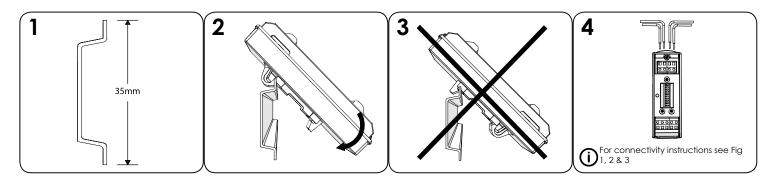


Intelligent DIN-Rail Switch Monitor Installation Guide



Part No	Product Name
SA4700-300APO	Intelligent DIN-Rail 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.

Supply Voltage	17-35V dc
Quiescent Current	500μΑ
Power-up Surge Current	900µA
LED Current	1.6mA per LED
Maximum Loop Current	1A
(I _c max; 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.

PP2563 - Intelligent DIN-Rail Switch Monitor

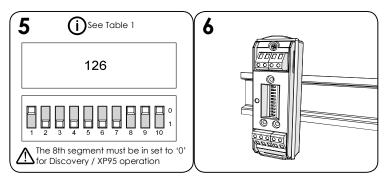
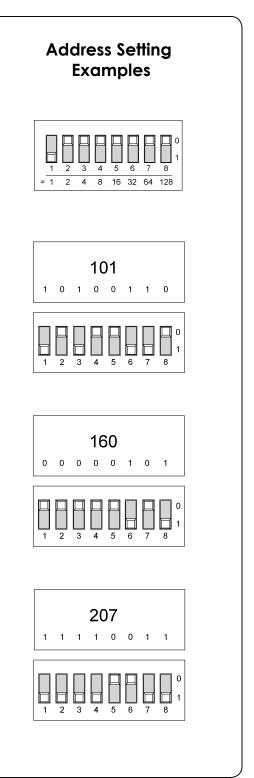


Table 1

Addressing

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

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



Connectivity Examples

Fig. 1 Standard resistive monitoring mode

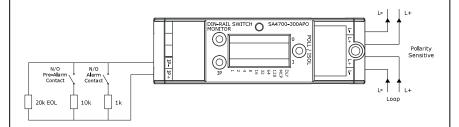


Fig. 2 Normally open monitoring mode (compatible with CoreProtocol only)

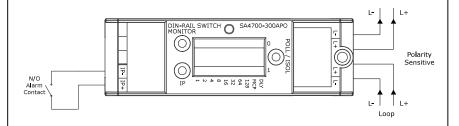
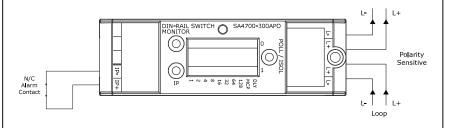


Fig. 3 Normally closed monitoring mode (Compatible with CoreProtocol only)



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

POLL/ ISO Flashing Green Device Polled Note: ISO Continuous Yellow Isolator Active Not all LEDs can be on simultaneously. IP Continuous Red Input Active Not all LEDs can be on simultaneously.

Commissioning

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

Caution

Unit damage. No electrical supply greater than 50V ac rms or 75V dc should be connected to any terminal of this Switch Monitor.

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 Isolator LED on

Incorrect address setting Incorrect loop wiring Incorrect input wiring Incorrect input wiring Dual address Loop data fault, data corruption Incorrect wiring Incorrect end-of-line resistor fitted Short-circuit on loop wiring Wiring reverse polarity Too many devices between isolators

Mode Table*

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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