Intelligent Switch Monitor



Product overview		
Product Type	Switch Monitor	
Part No.	SA4700-100APO	
Digital Communication Protocol	XP95®/Discovery® & CoreProtocol® compatible	

Product information

The Intelligent Switch Monitor is designed to monitor the state of one or more single pole, volt-free contacts connected on a single pair of cables 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 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 fast response *
- Configurable input styles *
- Earth fault monitoring *

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 17-35V dc

(Vmin-Vmax)

5-13V peak to peak

900µA Power-up surge current Quiescent current 500µA Max current LEDs On 2mA Max current LEDs 500µA

disabled

Dimensions

Isolator data Refer to the Short-Circuit Isolation

datasheet PP2090

-40°C to +70°C Operating temperature 0% to 95% RH Humidity

(no condensation or icing)

EN 54-17 & EN 54-18 Vibration, impact and shock

EN 54-17, EN 54-18, CPR and LPCB Standards & approvals 60mm height x 150mm width x

90mm depth

239g Weight

Table 1 Digital communications protocol compatibility

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

[†] Fire control panel dependant

36 Brookside Road, Havant, Hampshire PO9 1JR, UK.

Tel: +44 (0)23 9249 2412 Fax: +44 (0)23 9249 2754

Email: sales@apollo-fire.com Web: www.apollo-fire.co.uk









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

Table 2	Intelligent 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 Switch Monitor (see Figure 1) is available in the new faceplate style enclosure. This can be mounted with the supplied back-box for surface mounting or flush mounted using a UK double gang, flush mounting back-box of minimum depth 30mm.

EMC Directive 2014/30/EU

The Intelligent 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.

Construction Products Regulation 305/2011

The Intelligent Switch Monitor 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 the Installation Guide 39215-163 for the installation instructions on this product. Table 3 details the status indications of this unit, from normal operation through to fault conditions.

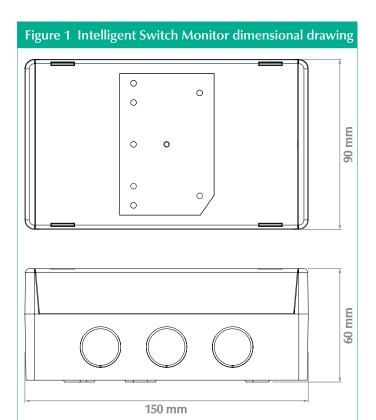


Table 3 Status Indications			
Legend	LED Status	Description	
Poll/ISOL	Flashing Green	Polling LED	
Poll/ISOL	Continuous Yellow	Isolator LED	
I/P	Continuous Yellow	Input Fault	
I/P	Continuous Red	Input Active	





