Intelligent Twin Switch Monitor



Product overview

Product Type	**Twin Switch Monitor**
Part No.	**SA6700-100APO**
Native Protocol	**XP95 and CoreProtocol**
Compatible Protocols	**Discovery (as XP95)**

Product information

The Intelligent Twin Switch Monitor provides the function of two Switch Monitor units within one enclosure. The two units are electrically independent of each other. There is a DIL switch on each unit to set the address.

Both Switch Monitor units in the enclosure are 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 Twin 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 *

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

Manufacturer's Specification

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

Supply voltage (Vmin–Vmax)	*17 V – 35 V dc*
Protocol	*5 V – 13 V peak to peak*
Power-up surge current	*900 µA per Switch Monitor*
Quiescent current	*500 µA per Switch Monitor*
Max current LEDs On	*2 mA per Switch Monitor*
Max current LEDs disabled	*500 µA per Switch Monitor*
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 54-17:2005, EN 54-18:2005*
IP rating	*IP52*
Standards	*EN 54-17:2005, EN 54-18:2005*
Dimensions	*60 mm height x 150 mm width x 90 mm depth*
Weight	*273 g*

Table 1: Digital communications protocol compatibility

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

† Fire control panel dependant

All information in this document is given in good faith but Apollo Fire Detectors Ltd cannot be held responsible for any omissions

Table 2: Intelligent Twin 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 Twin 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 Twin 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 Twin 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 Twin 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 and 4 for unit connection information. Referto Installation Guide 39215-170 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 Twin Switch Monitor dimensional drawing

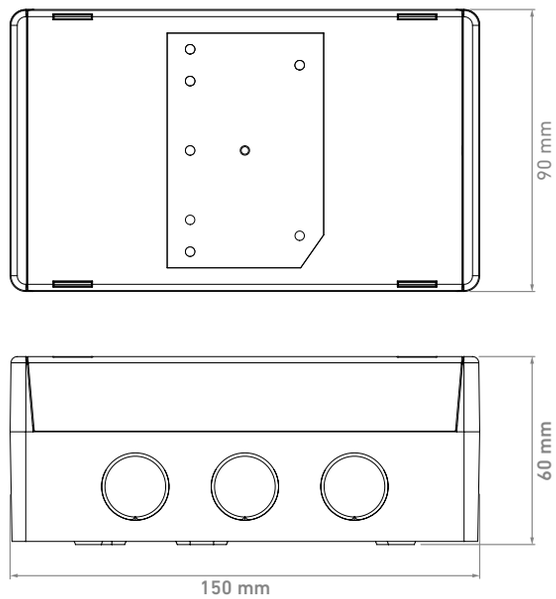


Table 3: Status Indications

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 Twin Switch Monitor standard resistive monitoring mode connectivity diagram

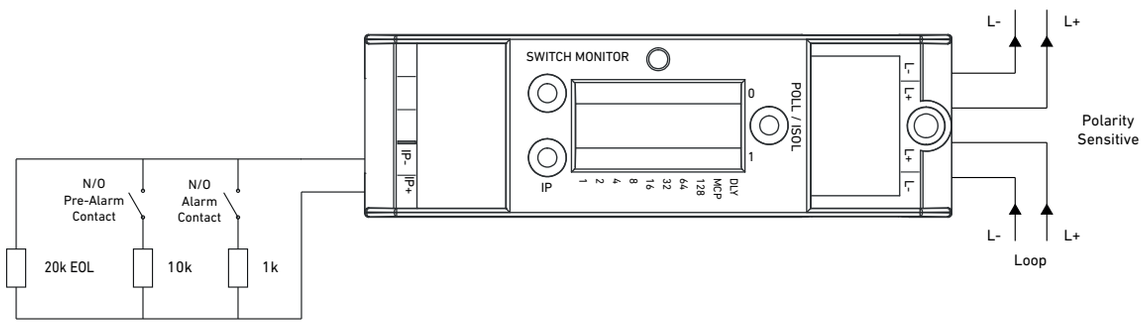


Figure 3: Intelligent Twin Switch Monitor normally open monitoring mode connectivity diagram (compatible with CoreProtocol only)

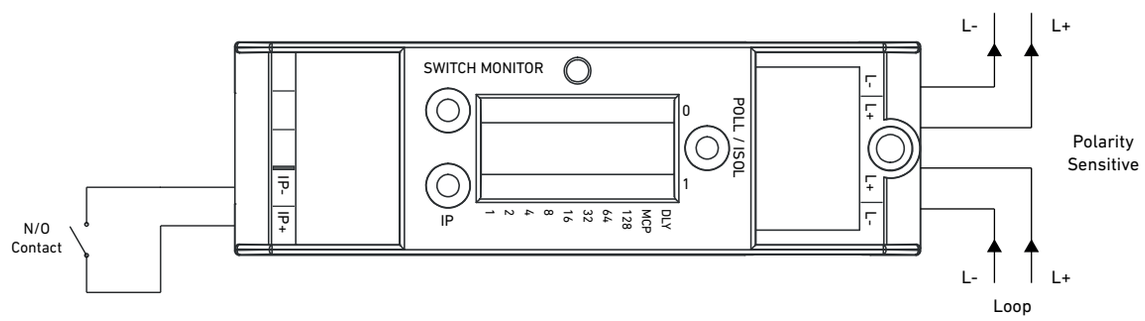


Figure 4: Intelligent Twin Switch Monitor normally closed monitoring mode connectivity diagram (compatible with CoreProtocol only)

