



# INTERFACES - INTELLIGENT SOTERIA® SWITCH MONITORS



SWITCH MONITOR  
AP-SAI-SM



DUAL  
SWITCH MONITOR  
AP-SAI-SM2

## SWITCH MONITOR

The Soteria® Switch Monitor monitors the state of one or more single pole, volt-free contacts connected on a single pair of cables to report the status.

The unit has a selectable status reporting delay, making it suitable for monitoring flow switches.

## DUAL SWITCH MONITOR

The Soteria Dual Switch Monitor provides the function of two switch monitor units within one enclosure.

These two units are electrically independent of each other and each unit has a DIL switch for address setting.

As with the Single Switch Monitor, the dual unit also monitors the state of one or more single pole, volt-free contacts connected on a single pair of cables to report the status.

The unit has a selectable status reporting delay, making it suitable for monitoring flow switches.

The Soteria Switch Monitors comply with the essential requirements of the EMC Directive 2014/30/EU, as well as the Construction Products Regulation 305/2011.

## FEATURES

### SINGLE & DUAL SWITCH MONITORS

- Improved design for ease of wiring facilitates 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\*

**Note:** \*CoreProtocol® enabled systems feature only.

Please check with Technoswitch for availability.

## APPROVALS

- EN54-17, EN54-18 (Incl. Vibration, Impact & Shock)
- CPR
- LPCB



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## SPECIFICATIONS

### SWITCH MONITOR - AP-SAI-SM

Supply Voltage	17-35 V DC
Protocol	5-13 V peak to peak
Power-up Surge Current	900 $\mu$ A
Quiescent Current	500 $\mu$ A
Max Current	
LEDs On	2 mA
LEDs Disabled	500 $\mu$ A
Operating Temperature	-40 °C to +70 °C
Humidity	0 % to 95 % RH (no condensation or icing)
Dimensions H x W x D	60 x 150 x 90 mm
Weight	239 g

### DUAL SWITCH MONITOR - AP-SAI-SM2

Supply Voltage	17-35 V DC
Protocol	5-13 V peak to peak
Power-up Surge Current	900 $\mu$ A per Switch Monitor
Quiescent Current	500 $\mu$ A per Switch Monitor
Max Current	
LEDs On	2 mA per Switch Monitor
LEDs Disabled	500 $\mu$ A per Switch Monitor
Operating Temperature	-40 °C to +70 °C
Humidity	0 % to 95 % RH (no condensation or icing)
Dimensions H x W x D	60 x 150 x 90 mm
Weight	273 g

\* Specifications are typical at 24 V, +25 °C, and 50 % RH, unless otherwise stated.

## ORDERING INFORMATION

Product Code	Product Description
AP-SAI-SM	SOTERIA®/XP95 Intelligent Switch Monitor
AP-SAI-SM2	SOTERIA®/XP95 Intelligent Dual Switch Monitor
AP-SAI-IO	SOTERIA®/XP95 Intelligent Input/Output Unit
AP-SAI-IO2	SOTERIA®/XP95 Intelligent Dual Input/Output Unit
AP-SAI-MSIO	SOTERIA®/XP95 Intelligent Mains Switching Input/Output Unit
AP-SADIN-IO	SOTERIA®/XP95 Intelligent DIN Rail Input/Output Unit
AP-SADIN-MSIO	SOTERIA®/XP95 Intelligent DIN Mains Switching Input/Output Unit
AP-SADIN-SM	SOTERIA®/XP95 Intelligent DIN Rail Switch Monitor

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