

# Product data sheet

Specifications



safety module, Harmony XPSU, Cat 4, potential free 2 NC, NO NC, 2 PNP, 24V AC or DC, screw

XPSUAF13AP

**Product availability: Stock - Normally stocked in distribution facility**

## Main

Range of Product	Harmony Safety Automation
Product or Component Type	Safety module
Safety module name	XPSUAF
Safety module application	Monitoring antivalent contacts For emergency stop, guard and light curtain monitoring
Function of module	Emergency stop button with 2 NC contacts Guard monitoring with 1 or 2 limit switches Monitoring 2 PNP sensors Magnetic switch monitoring Light curtain monitoring RFID switch Monitoring of electro-sensitive protection equipment (ESPE) Proximity sensor monitoring
Safety level	Can reach PL e/category 4 ISO 13849-1 Can reach SILCL 3 IEC 62061 Can reach SIL 3 IEC 61508
Safety reliability data	MTTFd > 30 years ISO 13849-1 Dcavg >= 99 % ISO 13849-1 PFHd = 1.13E-09 ISO 13849-1 HFT = 1 IEC 62061 PFHd = 1.13E-09 IEC 62061 SFF > 99% IEC 62061 HFT = 1 IEC 61508-1 PFHd = 1.13E-09 IEC 61508-1 SFF > 99% IEC 61508-1 Type = B IEC 61508-1
Electrical circuit type	NC pair PNP pair Antivalent pair OSSD pair
Connections - terminals	Removable screw terminal block, 0.2...2.5 mm <sup>2</sup> solid or flexible Removable screw terminal block, 0.25...2.5 mm <sup>2</sup> flexible with ferrule single conductor Removable screw terminal block, 0.2...1.5 mm <sup>2</sup> solid or flexible twin conductor Removable screw terminal block, 2 x 0.25...1 mm <sup>2</sup> flexible with ferrule without cable end, with bezel Removable screw terminal block, 2 x 0.5...1.5 mm <sup>2</sup> flexible with ferrule with cable end, with bezel
[Us] Rated Supply Voltage	24 V AC - 15...10 % 24 V DC - 20...20 %

## Complementary

Synchronisation time between inputs	0.5 s 2 s 4 s
Type of start	Automatic/manual/monitored
Power consumption in W	2.0 W 24 V DC

Price is "List Price" and may be subject to a trade discount – check with your local distributor or retailer for actual price.

<b>Power consumption in VA</b>	5.0 VA 24 V AC 50/60 Hz
<b>Input protection type</b>	Internal, electronic
<b>safety outputs</b>	3 NO
<b>safety inputs</b>	2 safety input 24 V DC 5 mA
<b>maximum wire resistance</b>	500 Ohm
<b>Input compatibility</b>	Normally closed circuit ISO 14119 XC limit switch ISO 14119 Mechanical contact ISO 14119 Normally closed circuit ISO 13850 Antivalent pair ISO 14119 OSSD pair IEC 61496-1-2 3-wire proximity sensors PNP
<b>[Ie] rated operational current</b>	5 A AC-1 for normally open relay contact 3 A AC-15 for normally open relay contact 5 A DC-1 for normally open relay contact 3 A DC-13 for normally open relay contact
<b>control outputs</b>	3 on/off configurable pulsed output
<b>Input/output type</b>	Semiconductor pulsed diagnostic output 24 V DC, 20 mA Z1, not safety-related
<b>[Ith] conventional free air thermal current</b>	8 A
<b>Associated fuse rating</b>	10 A gG NO relay output circuit IEC 60947-1
<b>Minimum output current</b>	10 mA relay output
<b>Minimum output voltage</b>	15 V relay output
<b>Maximum response time on input open</b>	20 ms
<b>[Ui] rated insulation voltage</b>	250 V 2)IEC 60947-1
<b>[Uimp] rated impulse withstand voltage</b>	4 kV II IEC 60947-1
<b>Local signalling</b>	LED (green) for power ON LED (red) for error LED (yellow) for start LED (yellow) for safety status LED (yellow) for safety input S12 LED (yellow) for safety input S22
<b>Mounting Support</b>	35 mm symmetrical DIN rail
<b>Depth</b>	4.7 in (120 mm)
<b>Height</b>	3.9 in (100 mm)
<b>Width</b>	0.9 in (22.5 mm)
<b>Net Weight</b>	0.441 lb(US) (0.200 kg)

## Environment

<b>Standards</b>	IEC 60947-5-1 IEC 61508-1 functional safety standard IEC 61508-2 functional safety standard IEC 61508-3 functional safety standard IEC 61508-4 functional safety standard IEC 61508-5 functional safety standard IEC 61508-6 functional safety standard IEC 61508-7 functional safety standard ISO 13849-1 functional safety standard IEC 62061 functional safety standard
<b>Product Certifications</b>	TÜV cULus
<b>IP degree of protection</b>	IP20 terminals)IEC 60529 IP40 housing)IEC 60529 IP54 mounting area)IEC 60529

<b>Ambient Air Temperature for Storage</b>	-13...185 °F (-25...85 °C)
<b>Relative Humidity</b>	5...95 % non-condensing

## Ordering and shipping details

<b>Category</b>	US1SAF222477
<b>Discount Schedule</b>	SAF2
<b>GTIN</b>	3606489601614
<b>Returnability</b>	Yes
<b>Country of origin</b>	US

## Packing Units

<b>Unit Type of Package 1</b>	PCE
<b>Number of Units in Package 1</b>	1
<b>Package 1 Height</b>	2.64 in (6.700 cm)
<b>Package 1 Width</b>	5.39 in (13.700 cm)
<b>Package 1 Length</b>	6.10 in (15.500 cm)
<b>Package 1 Weight</b>	9.912 oz (281.000 g)
<b>Unit Type of Package 2</b>	S03
<b>Number of Units in Package 2</b>	16
<b>Package 2 Height</b>	11.81 in (30.000 cm)
<b>Package 2 Width</b>	11.81 in (30.000 cm)
<b>Package 2 Length</b>	15.75 in (40.000 cm)
<b>Package 2 Weight</b>	11.519 lb(US) (5.225 kg)
<b>Unit Type of Package 3</b>	P06
<b>Number of Units in Package 3</b>	128
<b>Package 3 Height</b>	29.53 in (75.000 cm)
<b>Package 3 Width</b>	23.62 in (60.000 cm)
<b>Package 3 Length</b>	31.50 in (80.000 cm)
<b>Package 3 Weight</b>	111.933 lb(US) (50.772 kg)



## Environmental Data

Schneider Electric aims to achieve Net Zero status by 2050 through supply chain partnerships, lower impact materials, and circularity via our ongoing “Use Better, Use Longer, Use Again” campaign to extend product lifetimes and recyclability.

[Environmental Data explained >](#)

[How we assess product sustainability >](#)

### Environmental footprint

Carbon footprint (kg CO2 eq, Total Life cycle) 70

Environmental Disclosure [Product Environmental Profile](#)

## Use Better

### Materials and Substances

Packaging made with recycled cardboard Yes

Packaging without single use plastic No

[EU RoHS Directive](#) Pro-active compliance (Product out of EU RoHS legal scope)

SCIP Number 152cf799-1df7-4892-81b4-4c890187f1d1

REACH Regulation [REACH Declaration](#)

California proposition 65 **WARNING: This product can expose you to chemicals including: Lead and lead compounds, which is known to the State of California to cause cancer and birth defects or other reproductive harm. For more information go to [www.P65Warnings.ca.gov](http://www.P65Warnings.ca.gov)**

PVC free Yes

## Use Again

### Repack and remanufacture

Circularity Profile [End of Life Information](#)

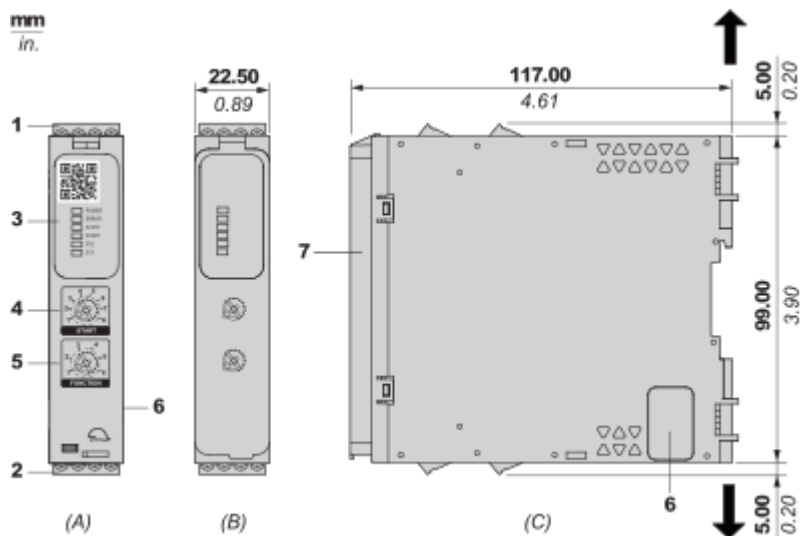
Take-back No

WEEE  The product must be disposed on European Union markets following specific waste collection and never end up in rubbish bins.

Dimensions Drawings

Dimensions

Front and Side Views



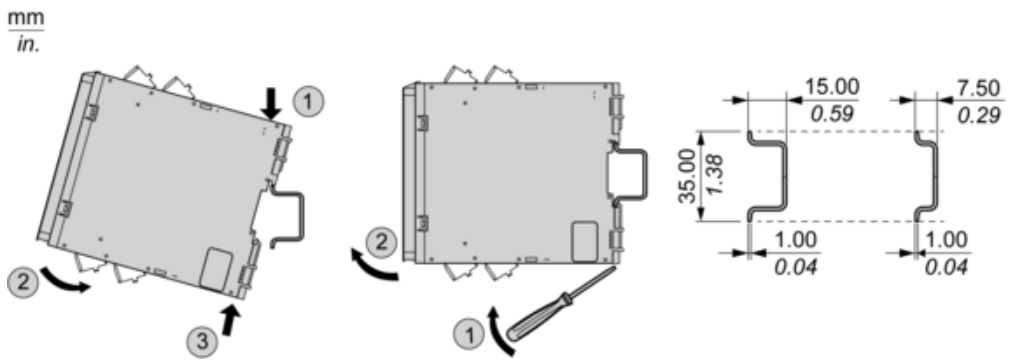
- (A) : Product drawing
- (B) : Screw clamp terminal
- (C) : Side view
- (1) : Removable terminal blocks, top
- (2) : Removable terminal blocks, bottom
- (3) : LED indicators
- (4) : Start function selector
- (5) : Function selector
- (6) : Connector for optional output extension module (lateral)
- (7) : Sealable transparent cover

mm in.	7.0–8.0 0.28–0.31					
	mm <sup>2</sup>	0,2... 2,5	0,25...2,5	0,2... 1,5	0,25...1	0,5... 1,5
	AWG	24... 12	24...12	24...16	24...18	20...16
	Ø 3,5 mm (0.14 in)				Nm	0.5... 0.6
					lb-in	4,4... 5,3

Mounting and Clearance

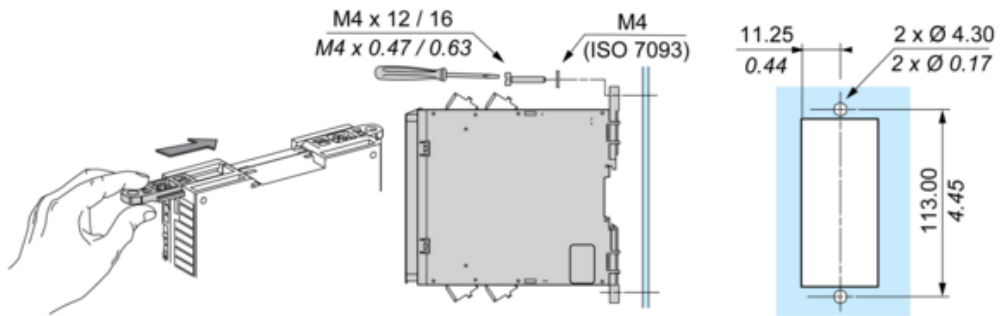
Mounting to DIN rail

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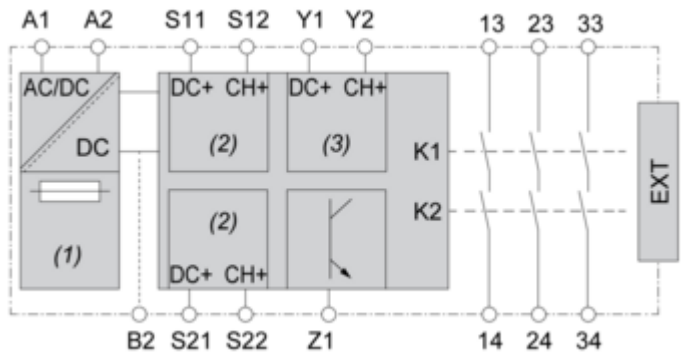
Screw-mounting

mm  
in.



Connections and Schema

Wiring Drawing



- (1) : A1-A2 (Power supply)
- (2) : S11-S12-S21-S22 (Single-channel safety input)
- (3) : Y1-Y2 (Start)
- 13-23-33-14-24-34 : Output
- EXT : Connector for optional extension module
- B2 : Common ground terminal
- Z1 : Pulsed output for diagnostics, not safety-related

Image of product / Alternate images

Alternative

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