Product data sheet





safety module, Harmony XPSU, Cat 4, potential free 2 NC, NO NC, 2 PNP, 48 to 240V AC or DC, spring

XPSUAF33AC

Product availability: Non-Stock - Not normally stocked in distribution facility

Price*: 338.20 USD

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 = 1.61E-09 ISO 13849-1 HFT = 1 IEC 62061 PFHd = 1.61E-09 IEC 62061 SFF > 99% IEC 62061 HFT = 1 IEC 61508-1 PFHd = 1.61E-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 spring terminal block, 0.22.5 mm² solid or flexible Removable spring terminal block, 0.252.5 mm² flexible with ferrule single conductor Removable spring terminal block, 0.21.5 mm² solid or flexible twin conductor Removable spring terminal block, 2 x 0.251 mm² flexible with ferrule without cable end, with bezel Removable spring terminal block, 2 x 0.51.5 mm² flexible with ferrule with cable end, with bezel			
[Us] Rated Supply Voltage	48240 V AC/DC - 1010 %			

Complementary

Synchronisation time between	0.5
inputs	2 s
	4 s

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



Type of start	Automatic/manual/monitored			
Power consumption in W	3.0 W 48 V DC			
Power consumption in VA	6.5 VA 240 V AC 50/60 Hz			
Input protection type	Internal, electronic			
safety outputs	3 NO			
safety inputs	2 safety input 24 V DC 5 mA			
maximum wire resistance	500 Ohm			
Input compatibility	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			
[le] rated operational current	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			
ontrol outputs 3 on/off configurable pulsed output				
Input/output type	Semiconductor pulsed diagnostic output 24 V DC, 20 mA Z1, not safety-related			
[Ith] conventional free air thermal current	8 A			
Associated fuse rating	10 A gG NO relay output circuit IEC 60947-1			
Associated fuse rating Minimum output current	10 A gG NO relay output circuit IEC 60947-1 10 mA relay output			
<u></u>				
Minimum output current	10 mA relay output			
Minimum output current Minimum output voltage Maximum response time on input	10 mA relay output 15 V relay output			
Minimum output current Minimum output voltage Maximum response time on input open	10 mA relay output 15 V relay output 20 ms			
Minimum output current Minimum output voltage Maximum response time on input open [Ui] rated insulation voltage [Uimp] rated impulse withstand	10 mA relay output 15 V relay output 20 ms 250 V 2)IEC 60947-1			
Minimum output current Minimum output voltage Maximum response time on input open [Ui] rated insulation voltage [Uimp] rated impulse withstand voltage	10 mA relay output 20 ms 250 V 2)IEC 60947-1 4 kV II IEC 60947-1 for power ON LED (green) for error LED (red) for start LED (yellow) for safety status LED (yellow) for safety input S12 LED (yellow)			
Minimum output current Minimum output voltage Maximum response time on input open [Ui] rated insulation voltage [Uimp] rated impulse withstand voltage Local signalling	10 mA relay output 20 ms 250 V 2)IEC 60947-1 4 kV II IEC 60947-1 for power ON LED (green) for error LED (red) for start LED (yellow) for safety status LED (yellow) for safety input S12 LED (yellow) for safety input S22 LED (yellow)			
Minimum output current Minimum output voltage Maximum response time on input open [Ui] rated insulation voltage [Uimp] rated impulse withstand voltage Local signalling Mounting Support	10 mA relay output 20 ms 250 V 2)IEC 60947-1 4 kV II IEC 60947-1 for power ON LED (green) for error LED (red) for start LED (yellow) for safety status LED (yellow) for safety input S12 LED (yellow) for safety input S22 LED (yellow) 35 mm symmetrical DIN rail			
Minimum output current Minimum output voltage Maximum response time on input open [Ui] rated insulation voltage [Uimp] rated impulse withstand voltage Local signalling Mounting Support	10 mA relay output 20 ms 250 V 2)IEC 60947-1 4 kV II IEC 60947-1 for power ON LED (green) for error LED (red) for start LED (yellow) for safety status LED (yellow) for safety input S12 LED (yellow) for safety input S22 LED (yellow) 35 mm symmetrical DIN rail 4.7 in (120 mm)			

Environment

Standards	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 61508-6 functional safety standard IEC 61508-7 functional safety standard ISO 13849-1 functional safety standard
	IEC 62061 functional safety standard
Product Certifications	TÜV cULus

IP degree of protection	IP20 terminals)IEC 60529 IP40 housing)IEC 60529 IP54 mounting area)IEC 60529		
Ambient Air Temperature for Storage	-13.0000000000185.00000000000 °F (-2585 °C)		
Relative Humidity	595 % non-condensing		

Ordering and shipping details

Category	US1SAF222477
Discount Schedule	SAF2
GTIN	3606489601621
Returnability	No
Country of origin	ID

Packing Units

Unit Type of Package 1	PCE
Number of Units in Package 1	1
Package 1 Height	2.7 in (6.8 cm)
Package 1 Width	5.5 in (14 cm)
Package 1 Length	6.2 in (15.8 cm)
Package 1 Weight	10.3 oz (292 g)
Unit Type of Package 2	S03
Number of Units in Package 2	16
Package 2 Height	11.8 in (30 cm)
Package 2 Width	11.8 in (30 cm)
Package 2 Length	15.7 in (40 cm)
Package 2 Weight	11.953 lb(US) (5.422 kg)

Sustainability Screen Premium*

Green PremiumTM **label** is Schneider Electric's commitment to delivering products with best-inclass environmental performance. Green Premium promises compliance with the latest regulations, transparency on environmental impacts, as well as circular and low-CO₂ products.

Guide to assessing product sustainability is a white paper that clarifies global eco-label standards and how to interpret environmental declarations.

Learn more about Green Premium >

Guide to assess a product's sustainability >





Transparency RoHS/REACh

Well-being performance

②	Mercury Free	
	Rohs Exemption Information	Yes
	Pvc Free	

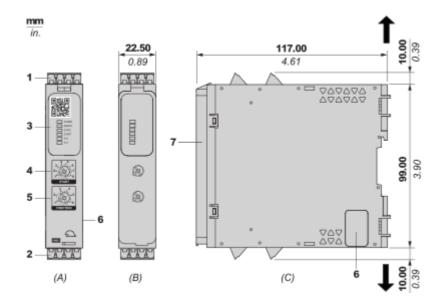
Certifications & Standards

Eu Rohs Directive	Pro-active compliance (Product out of EU RoHS legal scope)		
China Rohs Regulation	China RoHS declaration		
Environmental Disclosure	Product Environmental Profile		
Weee	The product must be disposed on European Union markets following specific waste collection and never end up in rubbish bins.		
Circularity Profile	End of Life Information		
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		

Dimensions Drawings

Dimensions

Front and Side Views

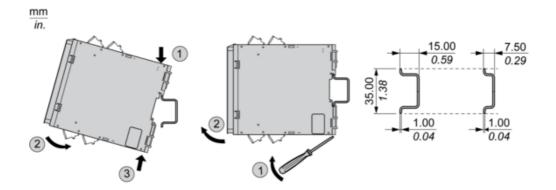


- (A): Product drawing
- (B): Spring Terminal
- (C) : Side view
- (1): Removable terminal blocks, top
- (2): Removable terminal blocks, bottom
- (3): LED indicators
- (4): Start function selector
- (5): Function selector
- (6): Connector for optional output extension module (lateral)
- (7): Sealable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

mm in.	0.47		₩ ₩			
	mm²	0,22,5	0,252,5	0,21,5	0,251	0,51,5
	AWG	2412	2412	2416	2418	2016

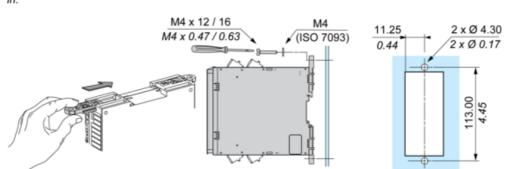
Mounting and Clearance

Mounting to DIN rail



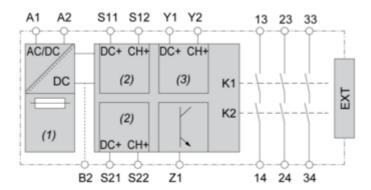
Screw-mounting





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