

safety module, Harmony XPSU, Cat4, features XPSUAK with delayed outputs, 48 to 240V AC or DC, spring

XPSUAT33A3AC

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

Main

Range of Product Harmony Safety Automation			
Product or Component Type	Safety module		
Safety module name	XPSUAT		
Safety module application	Monitoring antivalent contacts For emergency stop, guard and light curtain monitoring Monitoring of pressure-sensitive 4-wire protective devices		
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) Sensing mat/edges Proximity sensor monitoring Monitoring 1 PNP + 1 NPN sensor		
Safety level	Can reach PL e/category 4 for normally open relay contact ISO 13849-1 Can reach SILCL 3 for normally open relay contact IEC 62061 Can reach SIL 3 for normally open relay contact IEC 61508 Can reach PL c/category 1 for normally closed relay contact ISO 13849-1 Can reach SILCL 1 for normally closed relay contact IEC 62061 Can reach SIL 1 for normally closed relay contact IEC 61508		
Safety reliability data	MTTFd > 30 years ISO 13849-1 Dcavg >= 99 % ISO 13849-1 PFHd = 1.47E-09 for SS0 ISO 13849-1 PFHd = 1.48E-09 for SS1 ISO 13849-1 HFT = 1 IEC 62061 PFHd = 1.47E-09 for SS0 IEC 62061 PFHd = 1.48E-09 for SS1 IEC 62061 SFF > 99% IEC 62061 HFT = 1 IEC 61508-1 PFHd = 1.47E-09 for SS0 IEC 61508-1 PFHd = 1.48E-09 for SS1 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 %		

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

Complementary

Complementary				
Synchronisation time between	0.5 s			
inputs	2 s			
	4 s			
Type of start	Automatic/manual/monitored			
Power consumption in W	4 W 48 V DC			
Power consumption in VA	10 VA 240 V AC 50/60 Hz			
Input protection type	Internal, electronic			
safety outputs	1 NC configurable			
	3 NO configurable 3 NO immediate			
safety inputs	2 positive safety input 24 V DC 8 mA			
	1 negative safety input			
maximum wire resistance	500 Ohm			
Time delay range	0900 s off			
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			
	5-wife proximity sensors i Ni			
[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			
	3 A AC-1 for normally closed relay contact			
	1 A AC-15 for normally closed relay contact			
	3 A DC-1 for normally closed relay contact			
	1 A DC-13 for normally closed relay contact			
control outputs	4 on/off configurable pulsed output			
Input/output type	Pulsed output for diagnostics 24 V DC, 20 mA Z1, not safety-related			
	Semiconductor output 24 V DC, 20 mA Z2, not safety-related			
[Ith] conventional free air thermal current	16 A			
Associated fuse rating	10 A gG NO relay output circuit IEC 60947-1			
Minimum output current	20 mA relay output			
Minimum output voltage	24 V relay output			
Maximum response time on input open	20 ms			
[Ui] rated insulation voltage	250 V 2)IEC 60947-1			
[Uimp] rated impulse withstand voltage	4 kV II IEC 60947-1			
Mounting Support	35 mm symmetrical DIN rail			
Depth	4.7 in (120 mm)			
Height	3.9 in (100 mm)			
Width	1.8 in (45 mm)			
Net Weight	0.772 lb(US) (0.350 kg)			

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 61508-7 functional safety standard IEC 62061 functional safety standard IEC 62061 functional safety standard			
Product Certifications	TÜV cULus			
IP degree of protection	IP54 mounting area)IEC 60947-1 IP40 housing)IEC 60947-1 IP20 terminals)IEC 60947-1			
Ambient Air Temperature for Storage	-13185 °F (-2585 °C)			
Relative Humidity	595 % non-condensing			

Ordering and shipping details

Category	US1SAF222477
Discount Schedule	SAF2
GTIN	3606489601706
Returnability	No
Country of origin	ID

Packing Units

Unit Type of Package 1	PCE		
Number of Units in Package 1	1		
Package 1 Height	2.68 in (6.800 cm)		
Package 1 Width	5.51 in (14.000 cm)		
Package 1 Length	6.22 in (15.800 cm)		
Package 1 Weight	16.226 oz (460.000 g)		
Unit Type of Package 2	S03		
Number of Units in Package 2	16		
Package 2 Height	11.81 in (30.000 cm)		
Package 2 Width	11.81 in (30.000 cm)		
Package 2 Length	15.75 in (40.000 cm)		
Package 2 Weight	18.012 lb(US) (8.170 kg)		



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)	139
Environmental Disclosure	Product Environmental Profile

Use Better

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
PVC free	Yes

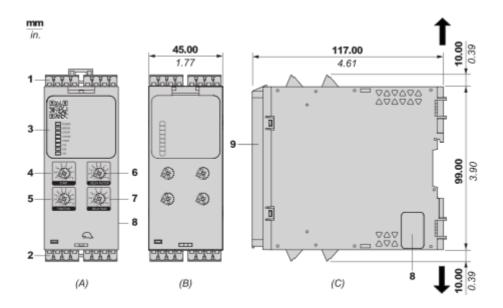
Use Again

○ 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

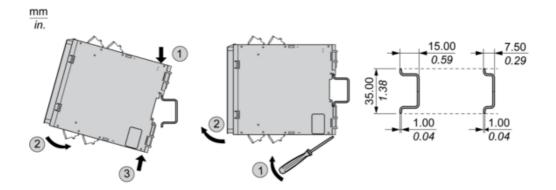


- (A): Product drawing
- (B): Spring Terminal
- (C): Side view
- (1): Removable terminal blocks, top
- (2): Removable terminal blocks, bottom
- (3): LED indicators
- (4): Start function selector
- (5): Function selector
- (6) : Delay factor selector
- (7): Delay base selector
- (8): Connector for optional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

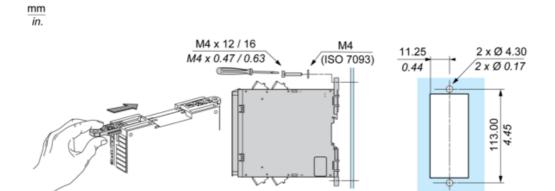
mm in.	0.47	\\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\	₩ ₩			
	mm²	0,22,5	0,252,5	0,21,5	0,251	0,51,5
	AWG	2412	2412	2416	2418	2016

Mounting and Clearance

Mounting to DIN rail



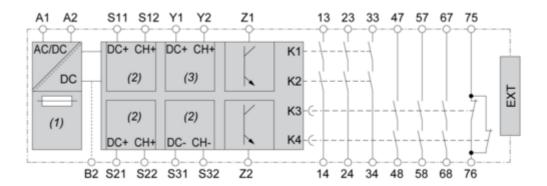
Screw-mounting



XPSUAT33A3AC

Connections and Schema

Wiring Drawing



(1): A1-A2 (Power supply)

(2): S11-S12-S21-S22-S31-S32 (Single-channel safety input)

(3): Y1-Y2 (Start)

13-23-33-47-57-67-75-14-24-34-48-58-68-76 : Output

EXT: Connector for optional extension module

B2: Common ground terminal

Z1 : Pulsed output for diagnostics, not safety-related

Z2 : Solid state output, not safety-related

Image of product / Alternate images

Alternative



