

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

XPSUAT33A3AC

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 conforming to ISO 13849-1 Can reach SILCL 3 for normally open relay contact conforming to IEC 62061 Can reach SIL 3 for normally open relay contact conforming to IEC 61508 Can reach PL c/category 1 for normally closed relay contact conforming to ISO 13849-1 Can reach SILCL 1 for normally closed relay contact conforming to IEC 62061 Can reach SIL 1 for normally closed relay contact conforming to IEC 61508			
Safety Reliability Data	MTTFd > 30 years conforming to ISO 13849-1 Dcavg >= 99 % conforming to ISO 13849-1 PFHd = 1.47E-09 conforming to ISO 13849-1 for SS0 PFHd = 1.48E-09 conforming to ISO 13849-1 for SS1 HFT = 1 conforming to IEC 62061 PFHd = 1.47E-09 conforming to IEC 62061 for SS0 PFHd = 1.48E-09 conforming to IEC 62061 for SS1 SFF > 99% conforming to IEC 62061 HFT = 1 conforming to IEC 61508-1 PFHd = 1.47E-09 conforming to IEC 61508-1 for SS0 PFHd = 1.48E-09 conforming to IEC 61508-1 for SS1 SFF > 99% conforming to IEC 61508-1 Type = B conforming to 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 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 delay			
Input Compatibility	Normally closed circuit conforming to ISO 14119			
	XC limit switch conforming to ISO 14119			
	Mechanical contact conforming to ISO 14119			
	Normally closed circuit conforming to ISO 13850			
	Antivalent pair conforming to ISO 14119 OSSD pair conforming to IEC 61496-1-2			
	3-wire proximity sensors PNP			
	o who proximity defices that			
[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 for NO relay output circuit conforming to IEC 60947-1			
Minimum Output Current	20 mA for relay output			
Minimum Output Voltage	24 V for relay output			
Maximum Response Time On Input Open	20 ms			
[Ui] Rated Insulation Voltage	250 V (pollution degree 2) conforming to IEC 60947-1			
[Uimp] Rated Impulse Withstand Voltage	4 kV overvoltage category II conforming to IEC 60947-1			
Mounting Support	35 mm symmetrical DIN rail			
Depth	120 mm			
Height	100 mm			
Width	45 mm			
Net Weight	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) conforming to IEC 60947-1 IP40 (housing) conforming to IEC 60947-1 IP20 (terminals) conforming to IEC 60947-1		
Ambient Air Temperature For Storage	-2585 °C		
Relative Humidity	595 % non-condensing		

Packing Units

Unit Type Of Package 1	PCE	
Number Of Units In Package 1	1	
Package 1 Height	6.800 cm	
Package 1 Width	14.000 cm	
Package 1 Length	15.800 cm	
Package 1 Weight	460.000 g	
Unit Type Of Package 2	S03	
Number Of Units In Package 2	16	
Package 2 Height	30.000 cm	
Package 2 Width	30.000 cm	
Package 2 Length	40.000 cm	
Package 2 Weight	8.170 kg	

Sustainability

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



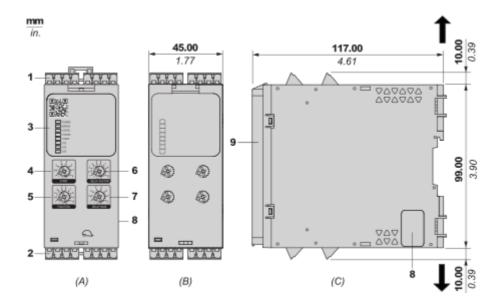
Certifications & Standards

Reach Regulation	REACh Declaration		
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) : Delay factor selector

(7) : Delay base selector

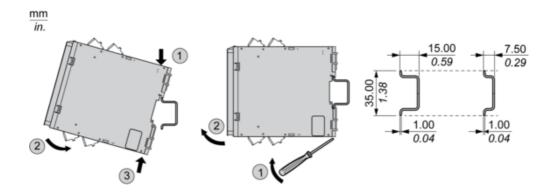
(8) : Connector for optional output extension module (lateral)

(9) : Sealable transparent cover

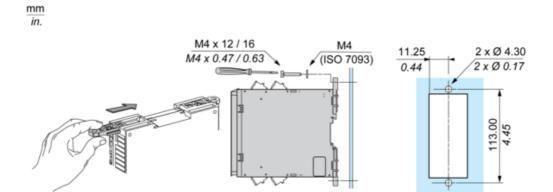
mm in.	0.47		₽			
	mm²	0,22,5	0,252,5	0,21,5	0,251	0,51,5
	AWG	2412	2412	2416	2418	2016

Mounting and Clearance

Mounting to DIN rail

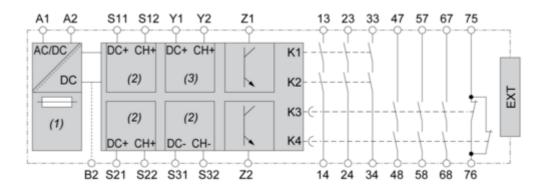


Screw-mounting



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