XPSUAT33A3AP

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





Main

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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 screw terminal block, 0.22.5 mm² solid or flexible Removable screw terminal block, 0.252.5 mm² flexible with ferrule single conductor Removable screw terminal block, 0.21.5 mm² solid or flexible twin conductor Removable screw terminal block, 2 x 0.251 mm² flexible with ferrule without cable end, with bezel Removable screw 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

Complementary					
Synchronisation time between inputs	0.5 s 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	3 NO configurable 3 NO immediate 1 NC configurable				
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				
[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	4.72 in (120 mm)				
Height	3.94 in (100 mm)				
Width	1.77 in (45 mm)				
Net Weight	0.77 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				
	ISO 13849-1 functional safety standard				
	IEC 62061 functional safety standard				
Product Certifications	TÜV[RETURN]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	22477-SAFETY MODULES (PREVENTA)
Discount Schedule	SAF2
GTIN	3606489601713
Returnability	No
Country of origin	ID

Packing Units

Unit Type of Package 1	PCE			
Number of Units in Package 1	1			
Package 1 Height	2.56 in (6.5 cm)			
Package 1 Width	5.39 in (13.7 cm)			
Package 1 Length	6.10 in (15.5 cm)			
Package 1 Weight	15.87 oz (450.0 g)			
Unit Type of Package 2	S03			
Number of Units in Package 2	16			
Package 2 Height	11.81 in (30 cm)			
Package 2 Width	11.81 in (30 cm)			
Package 2 Length	15.75 in (40 cm)			
Package 2 Weight	17.45 lb(US) (7.914 kg)			

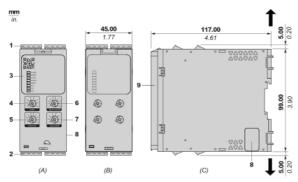
Offer Sustainability

Sustainable offer status	Green Premium product		
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		
REACh Regulation	REACh Declaration		
EU RoHS Directive	Pro-active compliance (Product out of EU RoHS legal scope)		
Mercury free	Yes		
China RoHS Regulation	China RoHS Declaration		
RoHS exemption information	€Yes		
Environmental Disclosure	Product Environmental Profile		
Circularity Profile	End Of Life Information		
WEEE	The product must be disposed on European Union markets following specific waste collection and never end up in rubbish bins.		
PVC free	Yes		

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Dimensions

Front and Side Views

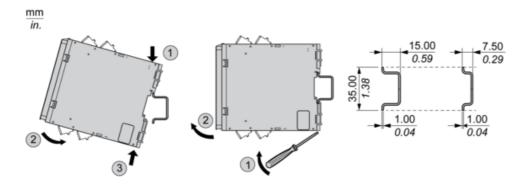


- (A): Product drawing
- (B): Screw clamp terminal
- (C): Side view
- (1): Removable terminal blocks, top
- (2): Removable terminal blocks, bottom
- (3): LED indicators
- (4): Start function selector
- (5): Function selector
- (6): Delay factor selector
- (7): Delay base selector
- (8): Connector for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

mm 7.0–8.0 in. 0.28–0.31				a	
mm ²	0,2 2,5	0,252,5	0,21,5	0,251	0,51,5
AWG	24 12	2412	2416	2418	3 2016
		() C@D		Nm	0.5 0.6
Ø 3,5 mm (0.14 in)		(.06	سرره	lb-in	4,4 5,3

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Mounting to DIN rail



Screw-mounting

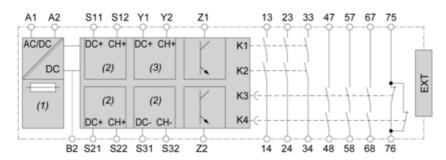
mm

M4 x 12 / 16 M4 x 0.47 / 0.63 (ISO 7093) 11.25 2 x Ø 4.30 2 x Ø 0.17

Product data sheet Connections and Schema

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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