Specifications

Green Premium"



Safety module, Harmony Safety Automation, Cat.4, features XPSUAF + PNP/NPN, safety mat, 48-240v AC/DC, screw

XPSUAK32AP

Main

wam					
Range of product	Harmony Safety Automation				
Product or component type	Safety module				
Safety module name	XPSUAK				
Safety module application	Monitoring antivalent contacts For emergency stop, guard and light curtain monitoring Monitoring of pressure-sensitive 4-wire protective devices 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				
Function of module					
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 SILCL 1 for normally closed relay contact conforming to IEC 61508				
Safety reliability data	$\begin{array}{l} MTTFd > 30 \ years \ conforming \ to \ ISO \ 13849-1 \\ Dcavg >= 99 \ \% \ conforming \ to \ ISO \ 13849-1 \\ PFHd = 1.61E-09 \ conforming \ to \ ISO \ 13849-1 \\ HFT = 1 \ conforming \ to \ IEC \ 62061 \\ PFHd = 1.61E-09 \ conforming \ to \ IEC \ 62061 \\ FF > 99\% \ conforming \ to \ IEC \ 62061 \\ HFT = 1 \ conforming \ to \ IEC \ 62061 \\ HFT = 1 \ conforming \ to \ IEC \ 61508-1 \\ PFHd = 1.61E-09 \ conforming \ to \ IEC \ 61508-1 \\ SFF > 99\% \ conforming \ to \ IEC \ 61508-1 \\ SFF > 99\% \ conforming \ to \ IEC \ 61508-1 \\ Type = \ B \ conforming \ to \ IEC \ 61508-1 \\ \end{array}$				
Electrical circuit type	NC pair PNP pair Antivalent pair OSSD pair				
Connections - terminals	Removable screw terminal block, 0.22.5 mm ² solid or flexible Removable screw terminal block, 0.252.5 mm ² flexible with ferrule single conductor Removable screw terminal block, 0.21.5 mm ² solid or flexible twin conductor Removable screw terminal block, 2 x 0.251 mm ² flexible with ferrule without cable end, with beze Removable screw terminal block, 2 x 0.51.5 mm ² flexible with ferrule with cable end, with beze				
[Us] rated supply voltage	48240 V AC/DC - 1010 %				
Complementary					
Synchronisation time between inputs	0.5 s 2 s 4 s				
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	2 NO + 1 NC					
Safety inputs	2 safety input 24 V DC 5 mA					
Maximum wire resistance	500 Ohm					
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					
[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	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 for NO relay output circuit conforming to IEC 60947-1					
Minimum output current	10 mA for relay output					
Minimum output voltage	12 V for relay output					
[Ui] rated insulation voltage	250 V (pollution degree 2) conforming to EN/IEC 60947-1					
[Uimp] rated impulse withstand voltage	4 kV overvoltage category II conforming to EN/IEC 60947-1					
Mounting support	35 mm symmetrical DIN rail					
Depth	120 mm					
Height	100 mm					
Width	22.5 mm					
Net weight	0.200 kg					
Environment						

Ambient air temperature for operation	-2555 °C		
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		
	cULus		
IP degree of protection	IP20 (terminals) conforming to EN/IEC 60529		
	IP40 (housing) conforming to EN/IEC 60529		
	IP54 (mounting area) conforming to EN/IEC 60529		
Relative humidity	595 % non-condensing		

Packing Units

Unit Type of Package 1	PCE
Number of Units in Package 1	1
Package 1 Weight	282.0 g
Package 1 Height	7.0 cm
Package 1 width	14.0 cm
Package 1 Length	16.0 cm
Unit Type of Package 2	S03
Number of Units in Package 2	16
Package 2 Weight	5.382 kg
Package 2 Height	30.0 cm
Package 2 width	30.0 cm
Package 2 Length	40.0 cm
Package 3 Height	30 cm

Sustainable offer status	Green Premium product				
REACh Regulation	REACh Declaration				
EU RoHS Directive	Pro-active compliance (Product out of EU RoHS legal scope) EU RoHS Declaration				
Mercury free	Yes				
RoHS exemption information	Yes				
China RoHS Regulation	China RoHS declaration				
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				
California proposition 65 WARNING: This product can expose you to chemicals including: Lead and lead compound where the state of California to cause cancer and birth defects or other reproductive information go to www.P65Warnings.ca.gov					

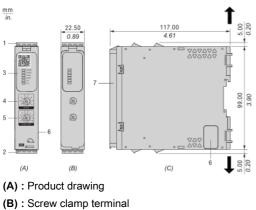
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XPSUAK32AP

Dimensions Drawings

Dimensions

Front and Side Views

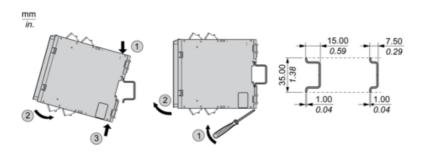


- (C) : Side view
- (1) : Removable terminal blocks, top
- (2) : Removable terminal blocks, bottom
- (3) : LED indicators
- (4) : Start function selector
- (5) : Function selector
- (6) : Connector for optional output extension module (lateral)
- (7) : Sealable transparent cover

mm in.	7.0–8.0 0.28–0.31		88		æ-	æ
	mm ²	0,2 2,5	0,252,5	0,21,5	0,251	0,51,5
	AWG	24 12	2412	2416	2418	2016
		()c@		Nm	0.5 0.6	
Ø 3,5 mm (0.14 in)				Ib-in	4,4 5,3	

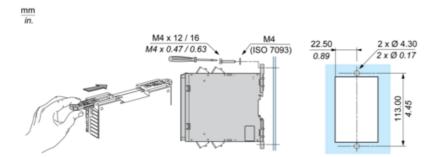
Mounting and Clearance

Mounting to DIN rail



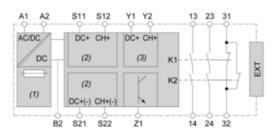
Mounting and Clearance

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)

13-23-31-14-24-32 : Output

EXT : Connector for optional extension module

B2 : Common ground terminal

Z1 : Pulsed output for diagnostics, not safety-related