XPSUAF33AP

Preventa module Cat.4 potential free NC/NC, NO/NC & PNP/PNP 48-240vac/dc screw





Main

Range of product	Preventa Safety automation			
Product or component type	Preventa 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 conforming to ISO 13849-1 Can reach SILCL 3 conforming to IEC 62061 Can reach SIL 3 conforming to IEC 61508			
Safety reliability data	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 SFF > 99% 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 Type = B conforming to 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

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	3 NO				
Safety inputs	2 safety input 24 V DC 5 mA				
Maximum line resistance	500 Ohm				

Input compatibility	Normally closed circuit conforming to ISO 14119			
input compatibility	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			
Control outputs	3 on/off configurable pulsed output			
Input/output type	Semiconductor pulsed diagnostic output 24 V DC, 20 mA Z1, not safety-related			
[lth] 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	15 V for relay output			
Maximum response time on input open	20 ms			
[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			
Local signalling	LED (green) for power ON			
	LED (red) for error			
	LED (yellow) for start			
	LED (yellow) for safety status			
	LED (yellow) for safety input S12 LED (yellow) for safety input S22			
	<u> </u>			
Mounting support	35 mm symmetrical DIN rail			
Depth	120 mm			
Height	100 mm			
Width	22.5 mm			
Net weight	0.200 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		
	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		
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 Weight	284 g
Package 1 Height	6.5 cm
Package 1 width	13.7 cm
Package 1 Length	15.5 cm
Unit Type of Package 2	BB1
Number of Units in Package 2	1
Package 2 Weight	320 g
Package 2 Height	6.4 cm
Package 2 width	13.3 cm

Package 2 Length	15.3 cm
Unit Type of Package 3	S03
Number of Units in Package 3	16
Package 3 Weight	5.411 kg
Package 3 Height	30 cm
Package 3 width	30 cm
Package 3 Length	40 cm

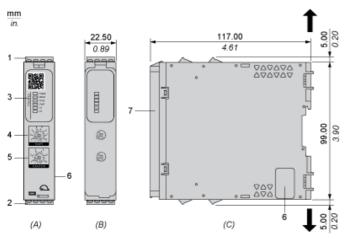
Offer Sustainability

Sustainable offer status	Green Premium product		
REACh Regulation	REACh Declaration		
EU RoHS Directive	Pro-active compliance (Product out of EU RoHS legal scope)		
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		

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Dimensions

Front and Side Views

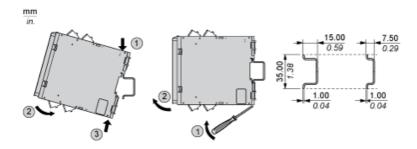


- (A): Product drawing
- (B): Screw clamp terminal
- (C): Side view
- (1): Removable terminal blocks, top
- (2): Removable terminal blocks, bottom (3): LED indicators
- (4): Start function selector
- (5): Function selector
- (6): Connector for optional output extension module (lateral)
- (7): Sealable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

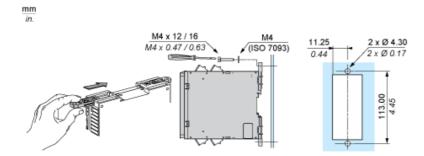
in.	7.0-8.0 0.28-0.31	11	8	## ##		- 8
	mm ²	0,2 2,5	0,252,5	0,21,5	0,251	0,51,5
	AWG	24 12	2412	2416	2418	2016
		(Ac@)		Nm	0.5 0.6	
Ø 3,5 mm (0.14 in)		(,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,		lb-in	4,4 5,3	

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Mounting to DIN rail



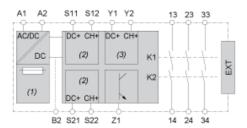
Screw-mounting



Product data sheet Connections and Schema

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Wiring Drawing



(1): A1-A2 (Power supply)

(2): S11-S12-S21-S22 (Single-channel safety input) (3): Y1-Y2 (Start)

13-23@atplut-24-34:

EXT : Connector for optional extension module

B2: Common ground terminal

Z1: Pulsed output for diagnostics, not safety-related