# **Product datasheet**

Specification





# Preventa module Cat.4 features 2\*XPSUAF + enabling movement 48-240vac/dc screw

XPSUS32AP

EAN Code: 3606489601836

#### Main

Range Of Product	Harmony Safety Automation				
	namony Salety Automation				
Product Or Component Type	Safety module				
Safety Module Name	XPSUS				
Safety Module Application	For electrical monitoring of two-hand control stations Monitoring antivalent contacts For emergency stop, guard and light curtain monitoring For enabling switch 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) Enabling switch monitoring Proximity sensor monitoring Monitoring two-hand control station				
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

Tune Of Start	
	4 s
Inputs	2 s
Synchronisation Time Between	0.5 s

ype Of Start Automatic/manual/monitored

Power Consumption In W	3 W 48 V DC				
Power Consumption In Va	8.5 VA 240 V AC 50/60 Hz				
Input Protection Type	Internal, electronic				
Safety Outputs	2 NO				
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 Two-hand control conforming to EN 574/ISO 13851-III A Two-hand control conforming to EN 574/ISO 13851-III C 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				
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				
Local Signalling	LED (green) for power ON LED (red) for error LED (yellow) for safety output status LED (yellow) for start input LED (yellow) for safety input S12 LED (yellow) for safety input S13 LED (yellow) for safety input S22 LED (yellow) for safety input S23				
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 IEC 62061 functional safety standard IEC 62061 functional safety standard			
Product Certifications	TÜV cULus			
Ip Degree Of Protection	IP20 (terminals) conforming to IEC 60529 IP40 (housing) conforming to IEC 60529 IP54 (mounting area) conforming to 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 Height	6.5 cm
Package 1 Width	13.8 cm
Package 1 Length	15.5 cm
Package 1 Weight	287 g
Unit Type Of Package 2	S03
Number Of Units In Package 2	16
Package 2 Height	30 cm
Package 2 Width	30 cm
Package 2 Length	40 cm
Package 2 Weight	5.303 kg

# **Contractual warranty**

Warranty 18 months



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Transparency RoHS/REACh

#### Well-being performance

<b>Ø</b>	Mercury Free	
	Rohs Exemption Information	Yes
<b>②</b>	Pvc Free	

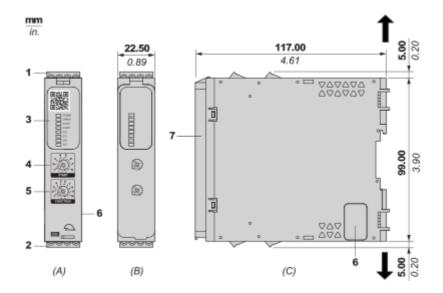
#### **Certifications & Standards**

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				
Environmental Disclosure	Product Environmental Profile				
China Rohs Regulation	China RoHS declaration				
Eu Rohs Directive	Pro-active compliance (Product out of EU RoHS legal scope)				
Reach Regulation	REACh Declaration				

#### **Dimensions Drawings**

#### **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

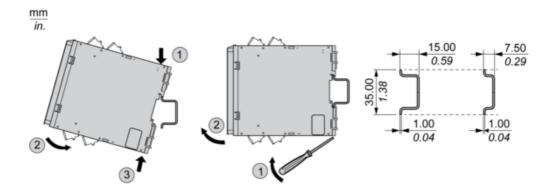
(6): Connector for optional output extension module (lateral)

(7): Sealable transparent cover

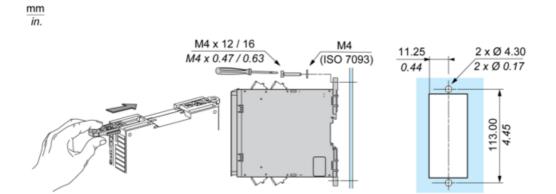
mm in.	7.0–8.0 0.28–0.31				<b>a</b>	-	
	mm²	0,2 2,5	0,252,5	0,21,5	0,251	1	0,51,5
	AWG	24 12	2412	2416	2418		2016
		(,c@)		Nm	0.5 0.6		
Ø 3,5 mm (0.14 in)				lb-in	4,4 5,3		

## Mounting and Clearance

#### Mounting to DIN rail

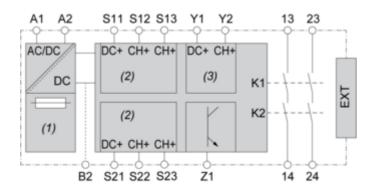


#### **Screw-mounting**



#### Connections and Schema

#### **Wiring Drawing**



(1): A1-A2 (Power supply)

(2): S11-S12-S13-S21-S22-S23 (Single-channel safety input)

(3): Y1-Y2 (Start) 13-23-14-24: Output

EXT: Connector for optional extension module

**B2**: Common ground terminal

Z1: Pulsed output for diagnostics, not safety-related