

# XPSUAK32AP

Preventa module Cat.4 features XPSUAF +  
PNP/NPN, safety mat 48-240vac/dc screw



## Main

Range of product	Preventa Safety automation
Product or component type	Preventa 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
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 = 1.61E-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, 0.2...2.5 mm <sup>2</sup> solid or flexible Removable screw terminal block, 0.25...2.5 mm <sup>2</sup> flexible with ferrule single conductor Removable screw terminal block, 0.2...1.5 mm <sup>2</sup> solid or flexible twin conductor Removable screw terminal block, 2 x 0.25...1 mm <sup>2</sup> flexible with ferrule without cable end, with bezel Removable screw terminal block, 2 x 0.5...1.5 mm <sup>2</sup> flexible with ferrule with cable end, with bezel
[Us] rated supply voltage	48...240 V AC/DC - 10...10 %

The information provided in this documentation contains general descriptions and/or technical characteristics of the products of the performance of the products contained herein. This documentation is not intended as a substitute for and is not to be used for determining suitability or reliability of these products for specific user applications. It is the duty of any such user or integrator to perform the appropriate and complete risk analysis, evaluation and testing of the products with respect to the relevant specific application or use thereof. Neither Schneider Electric Industries SAS nor any of its affiliates or subsidiaries shall be responsible or liable for misuse of the information contained herein.

## 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
[Ie] 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 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
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	-25...55 °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	5...95 % non-condensing

## Packing Units

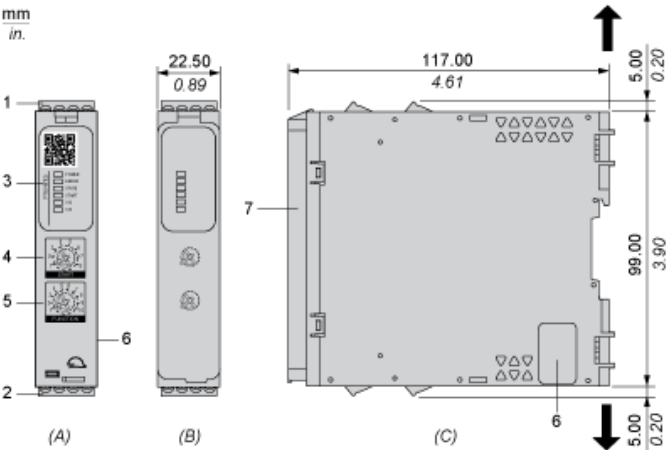
Unit Type of Package 1	PCE
Number of Units in Package 1	1
Package 1 Weight	282 g
Package 1 Height	7 cm
Package 1 width	14 cm
Package 1 Length	16 cm
Unit Type of Package 2	BB1
Number of Units in Package 2	1
Package 2 Weight	320 g
Package 2 Height	6.4 cm
Package 2 width	13.3 cm
Package 2 Length	15.3 cm
Unit Type of Package 3	S03
Number of Units in Package 3	16
Package 3 Weight	5.382 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	 <a href="#">REACH Declaration</a>
EU RoHS Directive	Pro-active compliance (Product out of EU RoHS legal scope)  <a href="#">EU RoHS Declaration</a>
Mercury free	Yes
RoHS exemption information	 <a href="#">Yes</a>
China RoHS Regulation	 <a href="#">China RoHS Declaration</a>
Environmental Disclosure	 <a href="#">Product Environmental Profile</a>
Circularity Profile	 <a href="#">End Of Life Information</a>
WEEE	The product must be disposed on European Union markets following specific waste collection and never end up in rubbish bins
PVC free	Yes

Dimensions

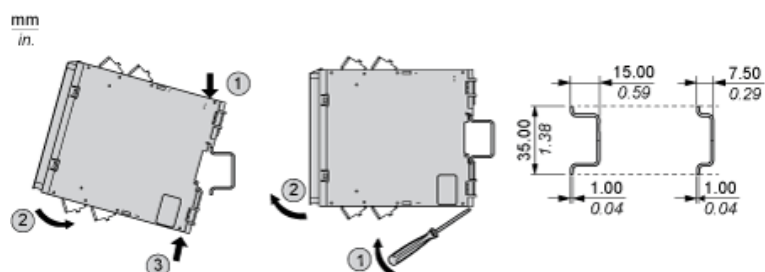
Front and Side Views



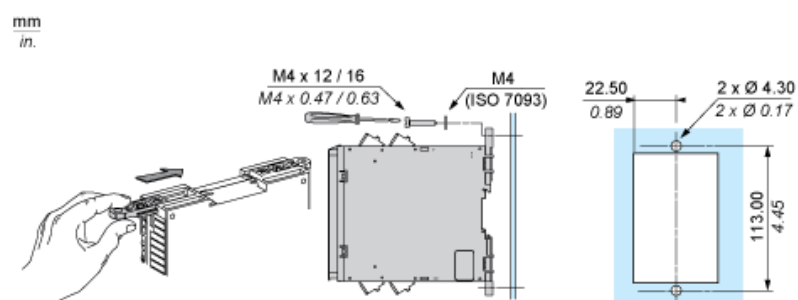
- (A) : Product drawing  
(B) : Screw clamp terminal  
(C) : Side view  
(1) : Removable terminal blocks, top  
(2) : Removable terminal blocks, bottom  
(3) : LED indicators  
(4) : Start function selector  
(5) : Function selector  
(6) : Connector for optional output extension module (lateral)  
(7)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

mm in.	7.0-8.0 0.28-0.31						
mm <sup>2</sup>	0.2... 2.5	0.25...2.5	0.2...1.5	0.25...1	0.5...1.5		
AWG	24... 12	24...12	24...16	24...18	20...16		
 Ø 3,5 mm (0.14 in)			Nm		0.5... 0.6		
			lb-in		4.4... 5.3		

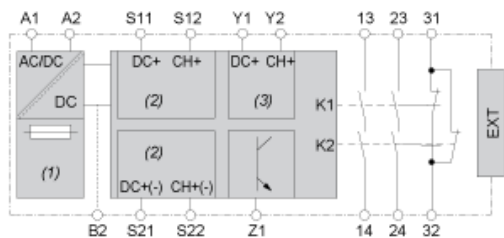
## Mounting to DIN rail



## Screw-mounting



## Wiring Drawing



- (1) : A1-A2 (Power supply)  
 (2) : S11-S12-S21-S22 (Single-channel safety input)  
 (3) : Y1-Y2 (Start)  
 13-23 Output 1-24-32 :  
 EXT :Connector for optional extension module  
 B2 : Common ground terminal  
 Z1 : Pulsed output for diagnostics, not safety-related