Specifications





Preventa module Cat.4 features XPSUAF + PNP/NPN, safety mat 24vac/dc screw

XPSUAK12AP

EAN Code: 3606489601652

Main

Range Of Produc	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			
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 = 1.13E-09 conforming to ISO 13849-1			
	HFT = 1 conforming to IEC 62061			
	PFHd = 1.13E-09 conforming to IEC 62061			
	SFF > 99% conforming to IEC 62061			
	HFT = 1 conforming to IEC 61508-1			
	PFHd = $1.13E-09$ 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 mm ² solid or flexible			
	Removable screw terminal block, 0.252.5 mm² 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 bezel			
	Removable screw terminal block, 2 x 0.51.5 mm ² flexible with ferrule with cable end, with bezel			
[Us] Rated Supply Voltage	24 V AC - 1510 %			
	24 V DC - 2020 %			

Complementary

Life Is On Schneider

Synchronisation Time Between	0.5 s		
Inputs	2 s		
	4 s		
Type Of Start	Automatic/manual/monitored		
Power Consumption In W	2.0 W 24 V DC		
Power Consumption In Va	5.0 VA 24 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 IEC 60947-1		
[Uimp] Rated Impulse Withstand Voltage	4 kV overvoltage category II conforming to 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 61508-7 functional safety standard		
Product Certifications	ISO 13849-1 functional safety standard ISO 13849-1 functional safety standard IEC 62061 functional safety standard TÜV cULus		

Relative Humidity

5...95 % non-condensing

Packing Units

-	
Unit Type Of Package 1	PCE
Number Of Units In Package 1	1
Package 1 Height	6.500 cm
Package 1 Width	13.500 cm
Package 1 Length	15.500 cm
Package 1 Weight	280.000 g
Unit Type Of Package 2	S03
Number Of Units In Package 2	16
Package 2 Height	30.000 cm
Package 2 Width	30.000 cm
Package 2 Length	40.000 cm
Package 2 Weight	5.186 kg
Unit Type Of Package 3	P06
Number Of Units In Package 3	128
Package 3 Height	75.000 cm
Package 3 Width	60.000 cm
Package 3 Length	80.000 cm
Package 3 Weight	50.324 kg

Contractual warranty

Warranty

18 months

Sustainability Screen Premium

Green PremiumTM label is Schneider Electric's commitment to delivering products with best-inclass environmental performance. Green Premium promises compliance with the latest regulations, transparency on environmental impacts, as well as circular and low-CO₂ products.

Guide to assessing product sustainability is a white paper that clarifies global eco-label standards and how to interpret environmental declarations.

Learn more about Green Premium >

Guide to assess a product's sustainability >



Transparency RoHS/REACh

Well-being performance



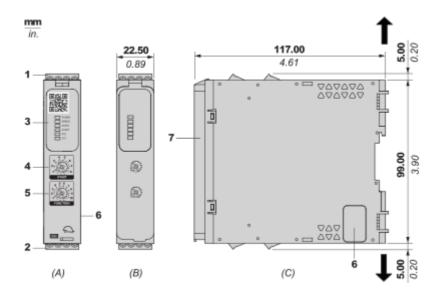
Certifications & Standards

Reach Regulation	REACh Declaration		
Eu Rohs Directive	Pro-active compliance (Product out of EU RoHS legal scope)		
China Rohs Regulation	China RoHS declaration		
Environmental Disclosure	Product Environmental Profile		
Weee	The product must be disposed on European Union markets following specific waste collection and never end up in rubbish bins		
Circularity Profile	End of Life Information		

Dimensions Drawings

Dimensions

Front and Side Views

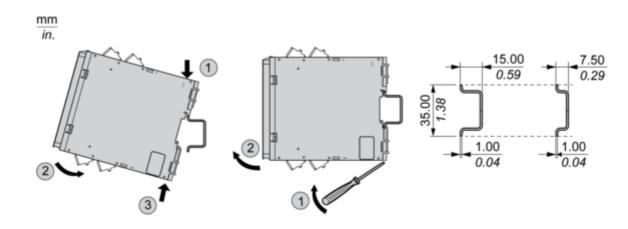


- (A) : Product drawing
- (B) : Screw clamp terminal
- (C) : Side view
- (1): Removable terminal blocks, top
- (2) : Removable terminal blocks, bottom
- (3) : LED indicators
- (4) : Start function selector
- (5) : Function selector
- (6) : Connector for optional output extension module (lateral)
- (7)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

mm in.	7.0–8.0 0.28–0.31				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
		Cc		Nm	0.5 0.6	
Ø 3,5 mm (0.14 in)		0.00	سرره	lb-in	4,4 5,3	

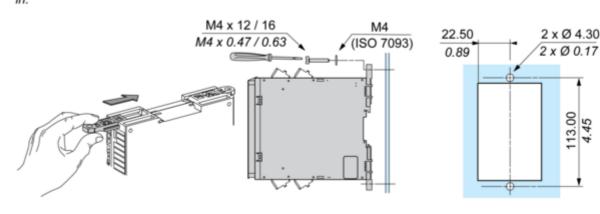
Mounting and Clearance

Mounting to DIN rail



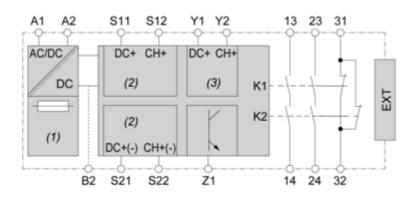
Screw-mounting

mm in.



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