



Preventa module Cat.4 features 6*XPSUAF 24vac/dc spring

XPSUDN13AC

EAN Code: 3606489601720

Main

Range of product	Harmony Safety Automation		
Product or component type	Safety module		
Safety module name	XPSUDN		
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 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 62061 Can reach SIL 1 for normally closed relay contact conforming to IEC 61508		
Safety level			
Safety reliability data	MTTFd > 30 years conforming to ISO 13849-1 Dcavg >= 99 % conforming to ISO 13849-1 PFHd = 0.88E-09 conforming to ISO 13849-1 HFT = 1 conforming to IEC 62061 PFHd = 0.88E-09 conforming to IEC 62061 SFF > 99% conforming to IEC 62061 HFT = 1 conforming to IEC 61508-1 PFHd = 0.88E-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		
Removable spring terminal block, 0.22.5 mm² solid or flexible Removable spring terminal block, 0.252.5 mm² flexible with ferrule single conductor Removable spring terminal block, 0.21.5 mm² solid or flexible twin conductor Removable spring terminal block, 2 x 0.251 mm² flexible with ferrule without cable spring terminal block, 2 x 0.51.5 mm² flexible with ferrule with cable of the conductor of th			
[Us] rated supply voltage 24 V AC - 1510 % 24 V DC - 2020 %			

Complementary

Synchronisation time between inputs	0.5 s 2 s 2.2 s 4 s
Type of start	Automatic/manual/monitored

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Power consumption in W	4.5 W 24 V DC				
Power consumption in VA	10.5 VA 24 V AC 50/60 Hz				
Input protection type	Internal, electronic				
Safety outputs	3 NO + 1 NC				
Safety inputs	6 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 closed 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	7 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	16 A				
Associated fuse rating	10 A gG for NO relay output circuit conforming to IEC 60947-1 4 A gG for NC 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	thstand 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 S13 LED (yellow) for safety input S22 LED (yellow) for safety input S23 LED (yellow) for safety input S32 LED (yellow) for safety input S33 LED (yellow) for safety input S33 LED (yellow) for safety input S42 LED (yellow) for safety input S43 LED (yellow) for safety input S43 LED (yellow) for safety input S52 LED (yellow) for safety input S53 LED (yellow) for safety input S62 LED (yellow) for safety input S62 LED (yellow) for safety input S73				
Mounting support	35 mm symmetrical DIN rail				
Depth	120 mm				
Height	100 mm				
Width	45 mm				
Net weight	0.350 kg				
Environment					
Standards	IEC 60947-5-1 IEC 61508-1 functional safety standard IEC 61508-2 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 60947-1 IP40 (housing) conforming to EN/IEC 60947-1 IP54 (mounting area) conforming to EN/IEC 60947-1		
Ambient air temperature for operation	-2550 °C at 24 V AC -2555 °C at 24 V DC		
Ambient air temperature for storage	-2585 °C		
Relative humidity	ative humidity 595 % non-condensing		

Packing Units

Unit Type of Package 1	PCE
Number of Units in Package 1	1
Package 1 Height	7.0 cm
Package 1 Width	13.5 cm
Package 1 Length	15.5 cm
Package 1 Weight	417.0 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	7.183 kg

Offer Sustainability

Sustainable offer status	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			
China RoHS Regulation	China RoHS declaration			
RoHS exemption information	Yes			
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 never end up in rubbish bins			
PVC free Yes				

Contractual warranty

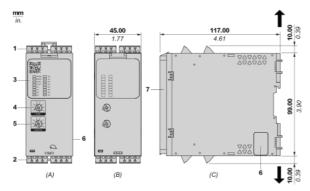
Warranty 18 months

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Dimensions Drawings

Dimensions

Front and Side Views



(A): Product drawing

(B): Spring 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

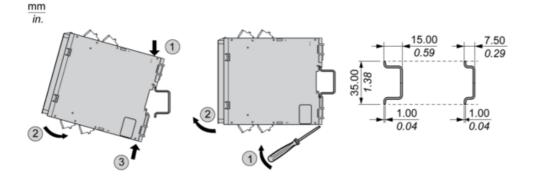
mm in.	0.47		₽			
	mm²	0,22,5	0,252,5	0,21,5	0,251	0,51,5
	AWG	2412	2412	2416	2418	2016

Product datasheet

XPSUDN13AC

Mounting and Clearance

Mounting to DIN rail



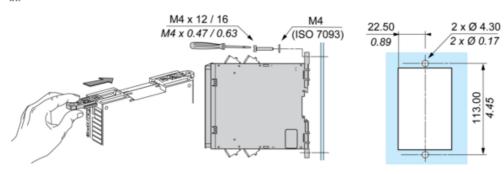
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Mounting and Clearance

Screw-mounting

 $\frac{\text{mm}}{\text{in.}}$

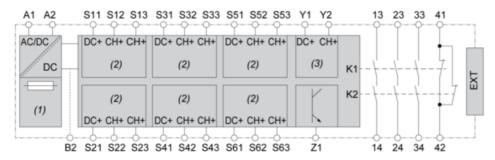


Product datasheet

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Connections and Schema

Wiring Drawing



(1): A1-A2 (Power supply)

(2): S11-S12-S13-S31-S32-S33-S51-S52-S53-S21-S22-S23-S41-S42-S43-S61-S62-S63 (Single-channel safety input)

(3): Y1-Y2 (Start)

13-23-33-41-14-24-34-42 : Output

EXT: Connector for optional extension module

B2: Common ground terminal

Z1: Pulsed output for diagnostics, not safety-related

Recommended replacement(s)