



Preventa module Cat.1 potential free NC/NC, NO/NC & PNP/PNP 48-240vac/dc spring

XPSUAB31CC

EAN Code: 3606489601584

Main

Range of product	Harmony Safety Automation			
Product or component type	Safety module			
Safety module name	For electrical monitoring of two-hand control stations For application with safety switchover contact For emergency stop, guard and light curtain monitoring Monitoring antivalent contacts Emergency stop monitoring 1-channel wiring Guard monitoring 1-channel wiring Monitoring 1 PNP sensor Monitoring two-hand control station type IIIA Magnetic switch monitoring Light curtain monitoring RFID switch Monitoring of electro-sensitive protection equipment (ESPE) Proximity sensor monitoring			
Safety module application				
Function of module				
Safety level	Can reach PL c/category 1 conforming to ISO 13849-1 Can reach SILCL 1 conforming to IEC 62061 Can reach SIL 1 conforming to IEC 61508			
Safety reliability data	MTTFd >= 30 years conforming to ISO 13849-1 Dcavg < 60 % conforming to ISO 13849-1 PFHd = 1177E-09 1/h conforming to ISO 13849-1 HFT = 0 conforming to IEC 62061 PFHd = 1177E-09 1/h conforming to IEC 62061 SFF > 60% conforming to IEC 62061 HFT=0 conforming to IEC 61508-1 PFHd = 1177E-09 1/h conforming to IEC 61508-1 SFF > 60% 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 spring terminal block, 0.22.5 mm² solid or flexible Removable spring terminal block, 0.252.5 mm² flexible with ferrule single conduct 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 Removable spring terminal block, 2 x 0.51.5 mm² flexible with ferrule with cable e				
[Us] rated supply voltage 48240 V AC/DC - 1010 %				

Complementary

Synchronisation time between inputs	0.5 s 2.2 s		
Type of start	Automatic/manual/monitored		
Power consumption in W	2 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	1 C/O			
Safety inputs	1 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 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 2 A DC-1 for normally closed relay contact 1 A DC-13 for normally closed relay contact			
Control Outputs	2 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	3 A			
Associated fuse rating	6 A gG for relay output 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 S13			
Mounting support	35 mm symmetrical DIN rail			
Depth	120 mm			
Ambient air temperature for operation	-2555 °C			
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			

Relative humidity	595 % non-condensing
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raci	NIIIU	Units
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Unit Type of Package 1	PCE
Number of Units in Package 1	1
Package 1 Height	6.5 cm
Package 1 Width	14.0 cm
Package 1 Length	15.5 cm
Package 1 Weight	269.0 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	5.156 kg

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) 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 and never end up in rubbish bins		
PVC free	Yes		

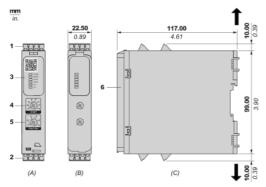
Contractual warranty

Warranty	18 months

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): Sealable transparent cover

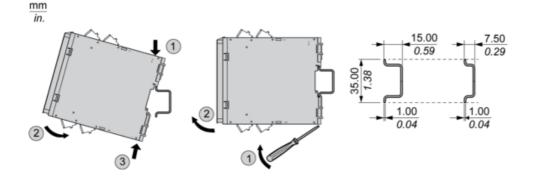
mm in.	0.47					
	mm²	0,22,5	0,252,5	0,21,5	0,251	0,51,5
	AWG	2412	2412	2416	2418	2016

Product datasheet

XPSUAB31CC

Mounting and Clearance

Mounting to DIN rail



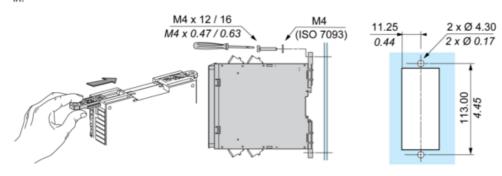
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Mounting and Clearance

Screw-mounting

mm in

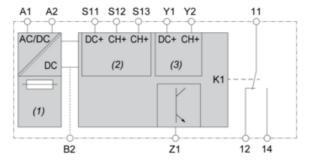


Product datasheet

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Connections and Schema

Wiring Drawing



(1): A1-A2 (Power supply)

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

(3): Y1-Y2 (Start) 11-12-14: Output

B2: Common ground terminal

Z1: Pulsed output for diagnostics, not safety-related

Recommended replacement(s)