# Product datasheet Characteristics

## XPSUAB11CC

Preventa module Cat.1 potential free NC/NC, NO/NC & PNP/PNP 24vac/dc spring





#### Main

Main				
Range of product	Preventa Safety automation			
Product or component type	Preventa safety module			
Safety module name	XPSUAB			
Safety module application	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			
Function of module	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)			
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	- terminals  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 end, with both			

[Us] rated supply voltage	24 V AC - 1510 % 24 V DC - 2020 %

### Complementary

Complementary			
Synchronisation time between inputs	0.5 s 2.2 s		
Type of start	Automatic/manual/monitored		
Power consumption in W	1.5 W 24 V DC		
Power consumption in VA	3.5 VA 24 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 line resistance	60 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		
Output type	Relay output : 250 V AC, AC-1, D300 Relay output : 250 V AC, AC-15, D300 Relay output : 24 V DC, DC-1, R300 Relay output : 24 V DC, DC-13, R300		
[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		
[lth] 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)power ON: LED (red)error: LED (yellow)start: LED (yellow)safety status: LED (yellow)safety input S12: LED (yellow)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		
Product 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 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	595 % non-condensing

### Offer Sustainability

Sustainable offer status Green Premium product			
EU RoHS Directive	Pro-active compliance (Product out of EU RoHS legal scope) EU RoHS Declaration Yes		
Mercury free			
RoHS exemption information	Yes		
China RoHS Regulation	China RoHS declaration		
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		

#### Contractual warranty

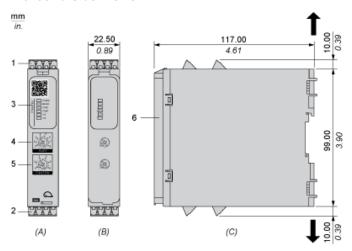
Contracted Warranty		
Warranty	18 months	

# Product datasheet Dimensions Drawings

## XPSUAB11CC

#### **Dimensions**

#### Front and Side Views



(A): Product drawing(B): Spring Terminal(C): Side view

(1): Removable terminal blocks, top (2): Removable terminal blocks, bottom

(2): Removable terminal b (3): LED indicators (4): Start function selector (5): Function selector

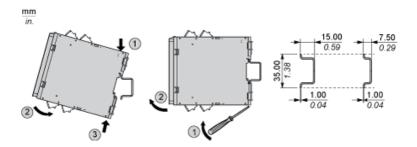
(5): Function selector (6): Sealable transparent cover

in.	0.47	71	44	== ==		æD-
	mm <sup>2</sup>	0,22,5	0,252,5	0,21,5	0,251	0,51,5
	AWG	2412	2412	2416	2418	2016

# Product datasheet Mounting and Clearance

# XPSUAB11CC

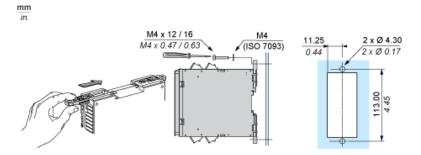
## Mounting to DIN rail



# Product datasheet Mounting and Clearance

# XPSUAB11CC

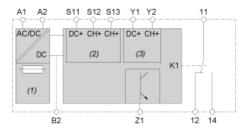
### Screw-mounting



# Product datasheet Connections and Schema

## XPSUAB11CC

### 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