Product datasheet Characteristics

XPSUAK32AC

Preventa module Cat.4 features XPSUAF + PNP/ NPN, safety mat 48-230vac/dc spring





Main

Main			
Range of product	nge of product Preventa Safety automation		
Product or component type	nent 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		
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	rical 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 conductor		

	Removable spring terminal block, $0.21.5 \text{ mm}^2$ solid or flexible twin conductor Removable spring terminal block, $2 \times 0.251 \text{ mm}^2$ flexible with ferrule without cable end, with bezel Removable spring terminal block, $2 \times 0.51.5 \text{ mm}^2$ flexible with ferrule with cable end, with bezel
[Us] rated supply voltage	48 240 V AC/DC - 10 10 %

Complementary

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 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 3-wire proximity sensors PNP		
Output type	Relay output: 250 V AC, AC-1, B300 for normally open relay contact Relay output: 250 V AC, AC-15, D300 for normally closed relay contact Relay output: 24 V DC, DC-1, R300 for normally open relay contact Relay output: 24 V DC, DC-13, R300 for normally closed relay contact		
[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		
[lth] 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)power ON: LED (red)error: LED (yellow)start: LED (yellow)safety status: LED (yellow)safety input S12: LED (yellow)safety input S22:		
Mounting support	35 mm symmetrical DIN rail		
Depth	120 mm		
Height	100 mm		
Width	22.5 mm		
Product weight	0.200 kg		

Environment

Ambient air temperature for operation	-2555 °C
Standards	IEC 60947-5-1

Offer Sustainability

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

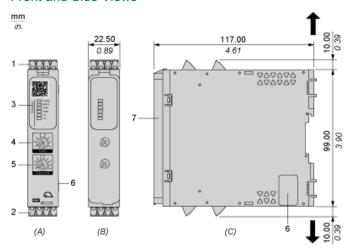
Warranty 18	3 months
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Product datasheet **Dimensions Drawings**

XPSUAK32AC

Dimensions

Front and Side Views



(A): Product drawing Spring Terminal (B):

(C): Side view

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

(3): LED indicators (4) : (5) : Start function selector Function selector

(6) : (7) : Connector for optional output extension module (lateral)

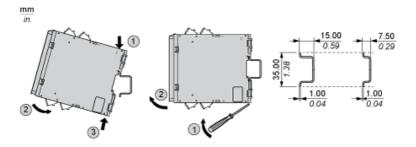
Sealable transparent cover

in.	0.47	11	44	# 2	æD-	æD-
	mm ²	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

XPSUAK32AC

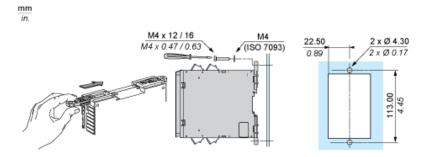
Mounting to DIN rail



Product datasheet Mounting and Clearance

XPSUAK32AC

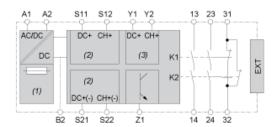
Screw-mounting



Product datasheet Connections and Schema

XPSUAK32AC

Wiring Drawing



(1): A1-A2 (Power supply)

(2): S11-S12-S21-S22 (Single-channel safety input)

(3): Y1-Y2 (Start) 13-23-31-**04**-**124**-132:

EXT: Connector for optional extension module

B2: Common ground terminal

Z1: Pulsed output for diagnostics, not safety-related