Product data sheet Characteristics

XPSUAT13A3AP

Preventa module Cat.4 features XPSUAK + delayed outputs 24vac/dc screw





Main

ange of product Preventa Safety automation				
Product or component type	nt type Preventa safety module			
Safety module name	XPSUAT			
Safety module application	ety 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 = 0.94E-09 conforming to ISO 13849-1 for SS0 PFHd = 0.95E-09 conforming to ISO 13849-1 for SS1 HFT = 1 conforming to IEC 62061 PFHd = 0.94E-09 conforming to IEC 62061 for SS0 PFHd = 0.95E-09 conforming to IEC 62061 for SS1 SFF > 99% conforming to IEC 62061 HFT = 1 conforming to IEC 62061 HFT = 1 conforming to IEC 61508-1 PFHd = 0.94E-09 conforming to IEC 61508-1 for SS0 PFHd = 0.95E-09 conforming to IEC 61508-1 for SS1 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 mm² solid or flexible Removable screw terminal block, 0.252.5 mm² flexible with ferrule single conductor Removable screw terminal block, 0.21.5 mm² solid or flexible twin conductor Removable screw terminal block, 2 x 0.251 mm² flexible with ferrule without cable end, with bezel Removable screw terminal block, 2 x 0.51.5 mm² flexible with ferrule with cable end, with bezel			
[Us] rated supply voltage	24 V AC - 1510 % 24 V DC - 2020 %			
Complementary				
Synchronisation time between inputs	0.5 s 2 s 4 s			
Type of start	Automatic/manual/monitored			
Power consumption in W	3 W 24 V DC			
Power consumption in VA	6.5 VA 24 V AC 50/60 Hz			
Input protection type	Internal, electronic			
Safety outputs	1 NC configurable 3 NO configurable 3 NO immediate			
Safety inputs	2 positive safety input 24 V DC 8 mA 1 negative safety input			
Maximum wire resistance	500 Ohm			
Time delay range	0900 s			
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 1 A DC-13 for normally closed relay contact			
Control outputs	4 on/off configurable pulsed output			
Input/Output type	Semiconductor output 24 V DC, 20 mA Z2, not safety-related Pulsed output for diagnostics 24 V DC, 20 mA Z1, not safety-related			
[lth] conventional free air thermal current	16 A			
Associated fuse rating	10 A gG for NO relay output circuit conforming to IEC 60947-1			
Minimum output current	20 mA for relay output			
Minimum output voltage	24 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 Local signalling	4 kV overvoltage category II conforming to EN/IEC 60947-1 LED (green) for power ON LED (red) for error LED (yellow) for start LED (yellow) for safety output instantaneous LED (yellow) for safety output delayed LED (yellow) for safety input S12 LED (yellow) for safety input S22 LED (yellow) for safety input S32			
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 61508-3 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	IP54 (mounting area) conforming to EN/IEC 60947-1		
	IP40 (housing) conforming to EN/IEC 60947-1		
	IP20 (terminals) conforming to EN/IEC 60947-1		
Ambient air temperature for storage	-2585 °C		
Relative humidity	595 % non-condensing		

Packing Units

r dorang ormo	
Unit Type of Package 1	PCE
Number of Units in Package 1	1
Package 1 Weight	435 g
Package 1 Height	6.5 cm
Package 1 width	13.5 cm
Package 1 Length	15.5 cm
Unit Type of Package 2	BB1
Number of Units in Package 2	1
Package 2 Weight	460 g
Package 2 Height	6.4 cm
Package 2 width	13.3 cm
Package 2 Length	15.3 cm
Unit Type of Package 3	S03
Number of Units in Package 3	16
Package 3 Weight	7.77 kg
Package 3 Height	30 cm
Package 3 width	30 cm
Package 3 Length	40 cm

Offer Sustainability

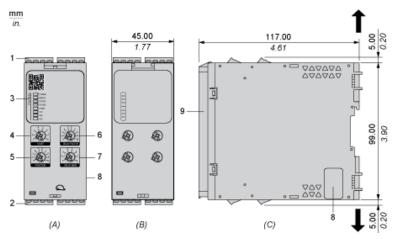
Green Premium product		
REACh Declaration		
Pro-active compliance (Product out of EU RoHS legal scope) EU RoHS Declaration		
Yes		
Yes		
China RoHS declaration		
nmental Disclosure Product Environmental Profile		
End of Life Information		
The product must be disposed on European Union markets following specific waste collection and never end up in rubbish bins		

PVC free	Yes
California proposition 65	WARNING: This product can expose you to chemicals including: Lead and lead compounds, which is known to the State of California to cause cancer and birth defects or other reproductive harm. For more information go to www.P65Warnings.ca.gov

XPSUAT13A3AP

Dimensions

Front and Side Views



Product drawing (A):

(B): Screw clamp terminal

(C): Side view

Removable terminal blocks, top (1):

(2): Removable terminal blocks, bottom

LED indicators (3):

(4) : Start function selector (5) : (6) : Function selector Delay factor selector

(7): Delay base selector

Connector for optional output extension module (lateral) (8):

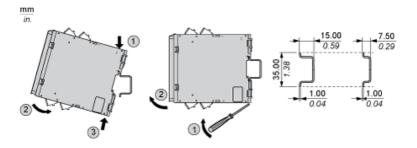
(9): Sealable transparent cover

in.	7.0–8.0 0.28–0.31	11	88	===	a	- 80-
	mm ²	0,2 2,5	0,252,5	0,21,5	0,251	1 0,51,5
	<i>AW</i> G	24 12	2412	2416	2418	3 2016
			(ാംത്ര		Nm	0.5 0.6
Ø 3,5 mm (0.14 in)		6.06	الساررة	lb-in	4,4 5,3	

Product data sheet Mounting and Clearance

XPSUAT13A3AP

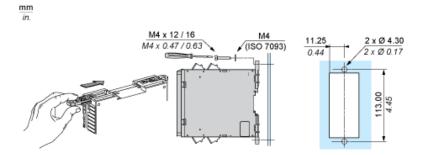
Mounting to DIN rail



Product data sheet Mounting and Clearance

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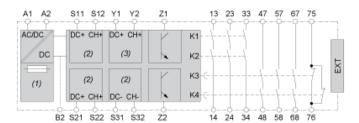
Screw-mounting



Product data sheet Connections and Schema

XPSUAT13A3AP

Wiring Drawing



(1): A1-A2 (Power supply)

(2): S11-S12-S21-S22-S31-S32 (Single-channel safety input)

(3): Y1-Y2 (Start)

13-23-33-**47**(457:467-75-14-24-34-48-58-68-76: EXT: Connector for optional extension module

B2: Common ground terminal

Z1: Pulsed output for diagnostics, not safety-related

Z2: Solid state output, not safety-related