XPSUAB31CP

safety module, Harmony XPSU, Cat 1, potential free 2 NC, NO NC, 2 PNP, 48 to 240V AC or DC, screw





Main

Range of Product Harmony Safety Automation				
Product or Component Type	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) Proximity sensor monitoring			
Safety level	Can reach PL c/category 1 ISO 13849-1 Can reach SILCL 1 IEC 62061 Can reach SIL 1 IEC 61508			
Safety reliability data	MTTFd >= 30 years ISO 13849-1 Dcavg < 60 % ISO 13849-1 PFHd = 1177E-09 1/h ISO 13849-1 HFT = 0 IEC 62061 PFHd = 1177E-09 1/h IEC 62061 SFF > 60% IEC 62061 HFT=0 IEC 61508-1 PFHd = 1177E-09 1/h IEC 61508-1 SFF > 60% IEC 61508-1 Type = B 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	48240 V AC/DC - 1010 %			

Complementary

0.5 s	
2.2 s	
Automatic/manual/monitored	
2.0 W 48 V DC	
6.5 VA 240 V AC 50/60 Hz	
Internal, electronic	
1 C/O	
	2.2 s Automatic/manual/monitored 2.0 W 48 V DC 6.5 VA 240 V AC 50/60 Hz Internal, electronic

Safety inputs	1 safety input 24 V DC 5 mA			
Maximum wire resistance	500 Ohm			
Input compatibility	Normally closed circuit ISO 14119 XC limit switch ISO 14119 Mechanical contact ISO 14119 Normally closed circuit ISO 13850 Antivalent pair ISO 14119 OSSD pair IEC 61496-1-2 Two-hand control 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 relay output IEC 60947-1			
Minimum output current	10 mA relay output			
Minimum output voltage	15 V relay output			
Maximum response time on input open	20 ms			
[Ui] rated insulation voltage	250 V 2)IEC 60947-1			
[Uimp] rated impulse withstand voltage	4 kV II IEC 60947-1			
Local signalling	For power ON LED (green) For error LED (red) For start LED (yellow) For safety status LED (yellow) For safety input S12 LED (yellow) For safety input S13 LED (yellow)			
Mounting Support	35 mm symmetrical DIN rail			
Depth	4.72 in (120 mm)			
Ambient Air Temperature for Operation	-13131 °F (-2555 °C)			
Height	3.94 in (100 mm)			
Width	0.89 in (22.5 mm)			
Net Weight	0.44 lb(US) (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[RETURN]cULus	
IP degree of protection	IP20 terminals)IEC 60529	
	IP40 housing)IEC 60529	
	IP54 mounting area)IEC 60529	
Relative Humidity	595 % non-condensing	

Ordering and shipping details

Category	22477-SAFETY MODULES (PREVENTA)		
Discount Schedule	SAF2		
GTIN	3606489601591		
Returnability	No		
Country of origin	ID		

Packing Units

· coming of the				
Unit Type of Package 1	PCE			
Number of Units in Package 1	1			
Package 1 Height	2.56 in (6.5 cm)			
Package 1 Width	5.31 in (13.5 cm)			
Package 1 Length	6.10 in (15.5 cm) 9.24 oz (262.0 g)			
Package 1 Weight				
Unit Type of Package 2	S03			
Number of Units in Package 2	16			
Package 2 Height	11.81 in (30 cm)			
Package 2 Width	11.81 in (30 cm)			
Package 2 Length	15.75 in (40 cm)			
Package 2 Weight	10.89 lb(US) (4.939 kg)			

Offer Sustainability

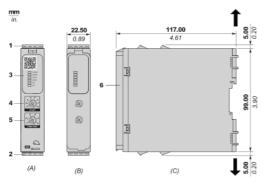
lead compounds, which is known to the State of California to cause cancer and birth defects or other reproductive harm. For more information go to www.P65Warnings.ca.gov REACh Regulation EU RoHS Directive Pro-active compliance (Product out of EU RoHS legal scope) Mercury free Yes China RoHS Regulation EV China RoHS Declaration RoHS exemption information EV Yes Environmental Disclosure Every Product Environmental Profile Circularity Profile	Sustainable offer status	Green Premium product		
EU RoHS Directive Pro-active compliance (Product out of EU RoHS legal scope) Mercury free Yes China RoHS Regulation RoHS exemption information Environmental Disclosure Circularity Profile End Of Life Information WEEE The product must be disposed on European Union markets following specwaste collection and never end up in rubbish bins.	California proposition 65	·		
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 spec waste collection and never end up in rubbish bins.	REACh Regulation	☑ REACh Declaration		
China RoHS Regulation RoHS exemption information Environmental Disclosure Environmental Disclosure Environmental Profile Circularity Profile End Of Life Information WEEE The product must be disposed on European Union markets following specwaste collection and never end up in rubbish bins.	EU RoHS Directive	Pro-active compliance (Product out of EU RoHS legal scope)		
RoHS exemption information Environmental Disclosure Environmental Disclosure Erroduct Environmental Profile Circularity Profile Erroduct Environmental Profile The product must be disposed on European Union markets following spectwaste collection and never end up in rubbish bins.	Mercury free	Yes		
Environmental Disclosure Ervironmental Disclosure Ervironmental Profile Circularity Profile End Of Life Information WEEE The product must be disposed on European Union markets following spec waste collection and never end up in rubbish bins.	China RoHS Regulation	China RoHS Declaration		
Circularity Profile Circularity Profile The product Environmental Profile The product Environmental Profile The product Environmental Profile The product Environmental Profile	RoHS exemption information	₽¥Yes		
WEEE The product must be disposed on European Union markets following spec waste collection and never end up in rubbish bins.	Environmental Disclosure	Product Environmental Profile		
waste collection and never end up in rubbish bins.	Circularity Profile	End Of Life Information		
PVC free Yes	WEEE	The product must be disposed on European Union markets following specific waste collection and never end up in rubbish bins.		
	PVC free	Yes		

Product data sheet Dimensions Drawings

XPSUAB31CP

Dimensions

Front and Side Views



(A): Product drawing

(B): Screw clamp terminal

(C): Side view

(1): Removable terminal blocks, top

(2): Removable terminal blocks, bottom

(3): LED indicators

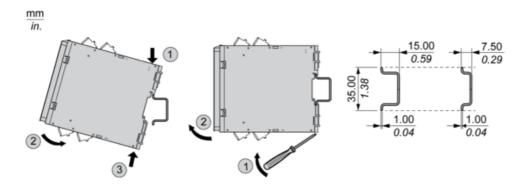
(4): Start function selector

(5): Function selector

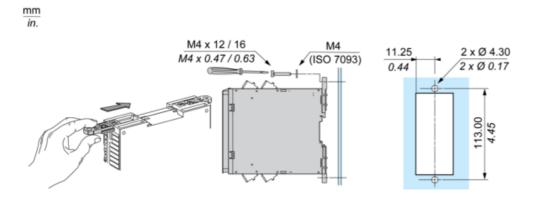
(6): Sealable transparent cover

	mm in.	7.0–8.0 0.28–0.31				æ-	- 80-
		mm²	0,2 2,5	0,252,5	0,21,5	0,251	0,51,5
		AWG	24 12	2412	2416	2418	2016
			()c		Nm	0.5 0.6	
Į	Ø 3,5 mm (0.14 in)				lb-in	4,4 5,3	

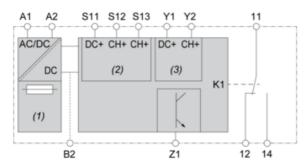
Mounting to DIN rail



Screw-mounting



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