XPSUAB31CP

Safety module, Harmony Safety Automation, Cat.1, potential free NC/NC, NO/NC, PNP/PNP, 48-240v AC/DC, screw





Main

Mairi	
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			
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 3 A AC-15 5 A DC-1 3 A DC-13 3 A AC-1 1 A AC-15 2 A DC-1 1 A DC-13			
Control Outputs	2 pulsed output			
Input/output type	Semiconductor pulsed diagnostic output Z1, 20 mA			
[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)EN/IEC 60947-1			
[Uimp] rated impulse withstand voltage	4 kV II EN/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
	cULus
IP degree of protection	IP20 terminals)EN/IEC 60529
	IP40 housing)EN/IEC 60529
	IP54 mounting area)EN/IEC 60529
Relative Humidity	595 % non-condensing

Ordering and shipping details

Category	22477-SAFETY MODULES (PREVENTA)
Discount Schedule	SAF2
GTIN	3606489601591
Nbr. of units in pkg.	1
Package weight(Lbs)	9.24 oz (262.0 g)

Returnability	No
Country of origin	ID
Packing Units	
Unit Type of Package 1	PCE
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)
Unit Type of Package 2	S03
Number of Units in Package 2	16
Package 2 Weight	10.89 lb(US) (4.939 kg)
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 3 Height	11.81 in (30 cm)
Offer Sustainability Sustainable offer status	Green Premium product
California proposition 65	WARNING: This product can expose you to chemicals including: Lead and
Gamornia proposition os	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	☑ REACh Declaration
EU RoHS Directive	Pro-active compliance (Product out of EU RoHS legal scope)
Mercury free	Yes
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.

Yes

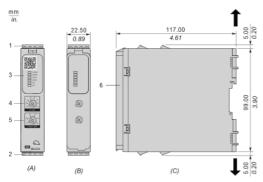
PVC free

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

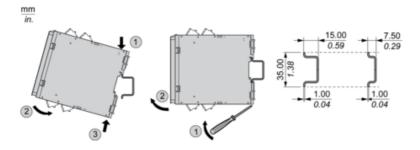
(6): Sealable transparent cover

mm in.	7.0–8.0 0.28–0.31	11		== &=	æ	-	
	mm ²	0,2 2,5	0,252,5	0,21,5	0,25	1	0,51,5
	AWG	24 12	2412	2416	2418	3	2016
		()c@m		Nm	0.5 0.6		
Ø 3,5 mm (0.14 in)				lb-in	4,4 5,3		

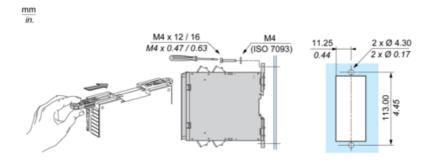
Product data sheet Mounting and Clearance

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Mounting to DIN rail



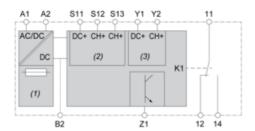
Screw-mounting



Product data sheet Connections and Schema

XPSUAB31CP

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