Product data sheet Characteristics

XPSUDN13AP

safety module, Harmony XPSU, Cat 4, features 6 x XPSUAF, 24V AC or DC, screw





Main

Harmony Safety Automation			
Safety module			
XPSUDN			
Monitoring antivalent contacts For emergency stop, guard and light curtain monitoring			
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) Proximity sensor monitoring			
Can reach PL e/category 4 for normally open relay contact ISO 13849-1 Can reach SILCL 3 for normally open relay contact IEC 62061 Can reach SIL 3 for normally open relay contact IEC 61508 Can reach PL c/category 1 for normally closed relay contact ISO 13849-1 Can reach SILCL 1 for normally closed relay contact IEC 62061 Can reach SIL 1 for normally closed relay contact IEC 61508			
MTTFd > 30 years ISO 13849-1 Dcavg >= 99 % ISO 13849-1 PFHd = 0.88E-09 ISO 13849-1 HFT = 1 IEC 62061 PFHd = 0.88E-09 IEC 62061 SFF > 99% IEC 62061 HFT = 1 IEC 61508-1 PFHd = 0.88E-09 IEC 61508-1 SFF > 99% IEC 61508-1 Type = B IEC 61508-1			
NC pair PNP pair Antivalent pair OSSD pair			
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			

Complementary

0.5 s			
2 s 2.2 s			
4 s			
Automatic/manual/monitored			
4.5 W 24 V DC			
10.5 VA 24 V AC 50/60 Hz			
Internal, electronic			
3 NO + 1 NC			
6 safety input 24 V DC 5 mA			
500 Ohm			
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 3-wire proximity sensors PNP			
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			
7 on/off configurable pulsed output			
Semiconductor pulsed diagnostic output 24 V DC, 20 mA Z1, not safety-related			
16 A			
10 A gG NO relay output circuit IEC 60947-1 4 A gG NC relay output circuit IEC 60947-1			
10 mA relay output			
12 V relay output			
20 ms			
250 V 2)EN/IEC 60947-1			
4 kV II EN/IEC 60947-1			
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) For safety input S22 LED (yellow) For safety input S23 LED (yellow) For safety input S32 LED (yellow) For safety input S33 LED (yellow) For safety input S33 LED (yellow) For safety input S42 LED (yellow) For safety input S43 LED (yellow) For safety input S43 LED (yellow) For safety input S53 LED (yellow) For safety input S53 LED (yellow) For safety input S53 LED (yellow) For safety input S62 LED (yellow) For safety input S63 LED (yellow) For safety input S73 LED (yellow)			
35 mm symmetrical DIN rail			
4.72 in (120 mm)			
3.94 in (100 mm)			
1.77 in (45 mm)			
0.77 lb(US) (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	IP20 terminals)EN/IEC 60947-1
	IP40 housing)EN/IEC 60947-1
	IP54 mounting area)EN/IEC 60947-1
Ambient air temperature for operation	-13122 °F (-2550 °C) at 24 V AC
·	-13131 °F (-2555 °C) at 24 V DC
Ambient Air Temperature for Storage	-13185 °F (-2585 °C)
Relative Humidity	595 % non-condensing

Ordering and shipping details

Category	22477-SAFETY MODULES (PREVENTA)
Discount Schedule	SAF2
GTIN	3606489601737
Returnability	No
Country of origin	ID

Packing Units

3 - 3	
Unit Type of Package 1	PCE
Number of Units in Package 1	1
Package 1 Height	5.31 in (13.5 cm)
Package 1 Width	5.31 in (13.5 cm)
Package 1 Length	5.31 in (13.5 cm)
Package 1 Weight	15.87 oz (450 g)
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	17.20 lb(US) (7.801 kg)

Offer Sustainability

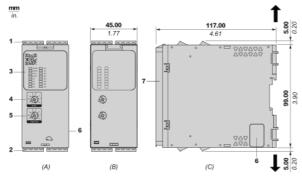
Sustainable offer status Green Premium product				
California proposition 65	WARNING: This product can expose you to chemicals including: Lead and lead compounds, which is known to the State of California to cause cancer and birth defects or other reproductive harm. For more information go to www.P65Warnings.ca.gov			
REACh Regulation	☑ REACh Declaration			
EU RoHS Directive	Pro-active compliance (Product out of EU RoHS legal scope)			
Mercury free	Yes			
China RoHS Regulation	China RoHS Declaration			
RoHS exemption information	₽			
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.
PVC free	Yes

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Dimensions

Front and Side Views

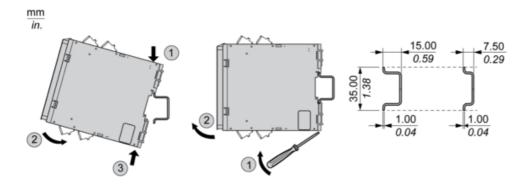


- (A): Product drawing
- (B): Screw clamp terminal
- (C): Side view
- (1): Removable terminal blocks, top
- (2): Removable terminal blocks, bottom
- (3): LED indicators
- (4): Start function selector
- (5): Function selector
- (6): Connector for optional output extension module (lateral)
- (7) : Sealable transparent cover

mm in.	7.0–8.0 0.28–0.31				a	= 80-
	mm²	0,2 2,5	0,252,5	0,21,5	0,251	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)		(.00	سترره	lb-in	4,4 5,3

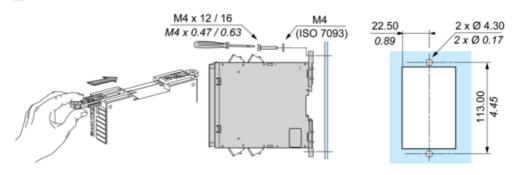
XPSUDN13AP

Mounting to DIN rail



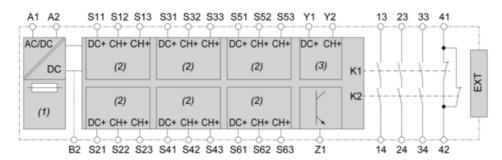
Screw-mounting

 $\frac{\text{mm}}{\text{in.}}$



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Wiring Drawing



(1): A1-A2 (Power supply)

(2): S11-S12-S13-S31-S32-S33-S51-S52-S53-S21-S22-S23-S41-S42-S43-S61-S62-S63 (Single-channel safety input)

(3): Y1-Y2 (Start)

13-23-33-41-14-24-34-42 : Output

EXT : Connector for optional extension module

B2 : Common ground terminal

Z1: Pulsed output for diagnostics, not safety-related