

Product data sheet

Specifications



Safety module, Harmony XPSU, Cat 4, features XPSUAF with PNP or NPN, safety mat, 48 to 240V AC or DC, screw

XPSUAK32AP

Product availability: Stock - Normally stocked in distribution facility

Main

Range of Product	Harmony Safety Automation
Product or Component Type	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 Proximity sensor monitoring Monitoring 1 PNP + 1 NPN sensor
Safety level	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
Safety reliability data	MTTFd > 30 years ISO 13849-1 Dcavg >= 99 % ISO 13849-1 PFHd = 1.61E-09 ISO 13849-1 HFT = 1 IEC 62061 PFHd = 1.61E-09 IEC 62061 SFF > 99% IEC 62061 HFT = 1 IEC 61508-1 PFHd = 1.61E-09 IEC 61508-1 SFF > 99% 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, 0.2...2.5 mm² solid or flexible Removable screw terminal block, 0.25...2.5 mm² flexible with ferrule single conductor Removable screw terminal block, 0.2...1.5 mm² solid or flexible twin conductor Removable screw terminal block, 2 x 0.25...1 mm² flexible with ferrule without cable end, with bezel Removable screw terminal block, 2 x 0.5...1.5 mm² flexible with ferrule with cable end, with bezel
[Us] Rated Supply Voltage	48...240 V AC/DC - 10...10 %

Complementary

Price is "List Price" and may be subject to a trade discount – check with your local distributor or retailer for actual price.

Disclaimer: This documentation is not intended as a substitute for and is not to be used for determining suitability or reliability of these products for specific user applications

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 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 3-wire proximity sensors PNP
[Ie] 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
[Ith] conventional free air thermal current	8 A
Associated fuse rating	10 A gG NO relay output circuit IEC 60947-1
Minimum output current	10 mA relay output
Minimum output voltage	12 V relay output
[Ui] rated insulation voltage	250 V 2)IEC 60947-1
[Uimp] rated impulse withstand voltage	4 kV II IEC 60947-1
Mounting Support	35 mm symmetrical DIN rail
Depth	4.7 in (120 mm)
Height	3.9 in (100 mm)
Width	0.9 in (22.5 mm)
Net Weight	0.441 lb(US) (0.200 kg)

Environment

Ambient Air Temperature for Operation	-13...131 °F (-25...55 °C)
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)IEC 60529
	IP40 housing)IEC 60529
	IP54 mounting area)IEC 60529
Relative Humidity	5...95 % non-condensing

Ordering and shipping details

Category	US1SAF222477
Discount Schedule	SAF2
GTIN	3606489601676
Returnability	Yes
Country of origin	ID

Packing Units

Unit Type of Package 1	PCE
Nbr. of units in pkg.	1
Package 1 Height	2.76 in (7.000 cm)
Package 1 Width	5.51 in (14.000 cm)
Package 1 Length	6.30 in (16.000 cm)
Package weight(Lbs)	10.265 oz (291.000 g)
Unit Type of Package 2	S03
Number of Units in Package 2	16
Package 2 Height	11.81 in (30.000 cm)
Package 2 Width	11.81 in (30.000 cm)
Package 2 Length	15.75 in (40.000 cm)
Package 2 Weight	11.865 lb(US) (5.382 kg)
Unit Type of Package 3	P06
Number of Units in Package 3	128
Package 3 Height	29.53 in (75.000 cm)
Package 3 Width	23.62 in (60.000 cm)
Package 3 Length	31.50 in (80.000 cm)
Package 3 Weight	112.559 lb(US) (51.056 kg)

Environmental Data

Schneider Electric aims to achieve Net Zero status by 2050 through supply chain partnerships, lower impact materials, and circularity via our ongoing “Use Better, Use Longer, Use Again” campaign to extend product lifetimes and recyclability.

[Environmental Data explained >](#)

[How we assess product sustainability >](#)

Environmental footprint	
Carbon footprint (kg CO2 eq, Total Life cycle)	103
Environmental Disclosure	Product Environmental Profile

Use Better

Materials and Substances	
Packaging made with recycled cardboard	Yes
Packaging without single use plastic	No
EU RoHS Directive	Pro-active compliance (Product out of EU RoHS legal scope)
SCIP Number	152cf799-1df7-4892-81b4-4c890187f1d1
REACH Regulation	REACH Declaration
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
PVC free	Yes

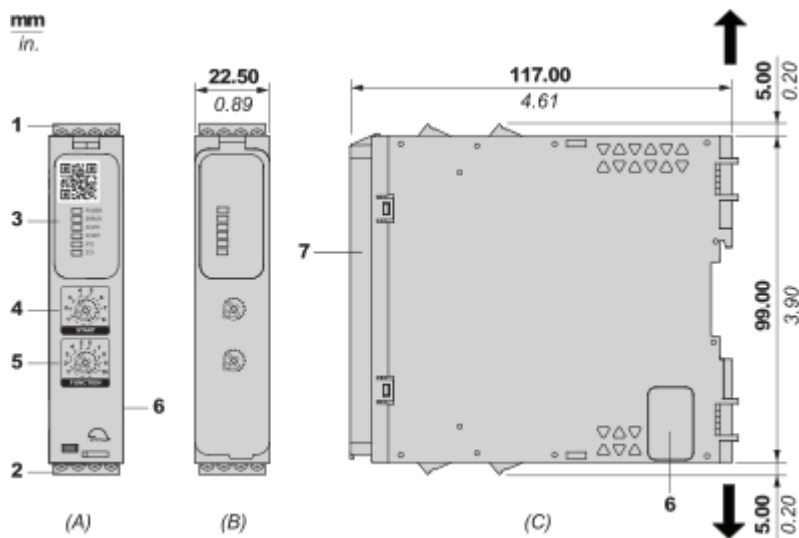
Use Again

Repack and remanufacture	
Circularity Profile	End of Life Information
Take-back	No
WEEE	 The product must be disposed on European Union markets following specific waste collection and never end up in rubbish bins.

Dimensions Drawings

Dimensions

Front and Side Views

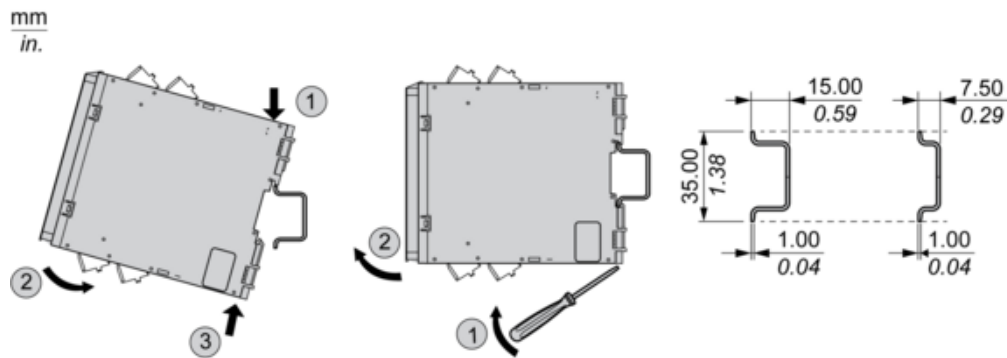


- (A) : Product drawing
(B) : Screw clamp terminal
(C) : Side view
(1) : Removable terminal blocks, top
(2) : Removable terminal blocks, bottom
(3) : LED indicators
(4) : Start function selector
(5) : Function selector
(6) : Connector for optional output extension module (lateral)
(7) : Sealable transparent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

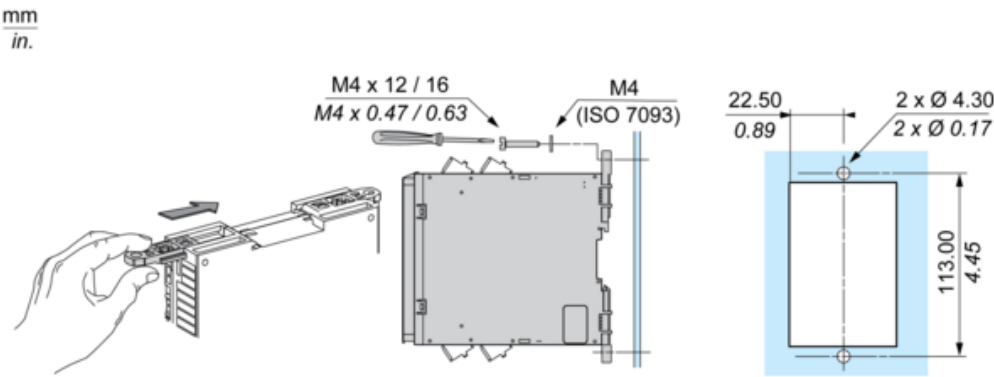
mm in. 7.0–8.0 0.28–0.31					
mm ²	0,2... 2,5	0,25...2,5	0,2... 1,5	0,25...1	0,5...1,5
AWG	24... 12	24...12	24...16	24...18	20...16
 Ø 3,5 mm (0.14 in)				Nm	0.5... 0.6
				lb-in	4,4... 5,3

Mounting and Clearance

Mounting to DIN rail

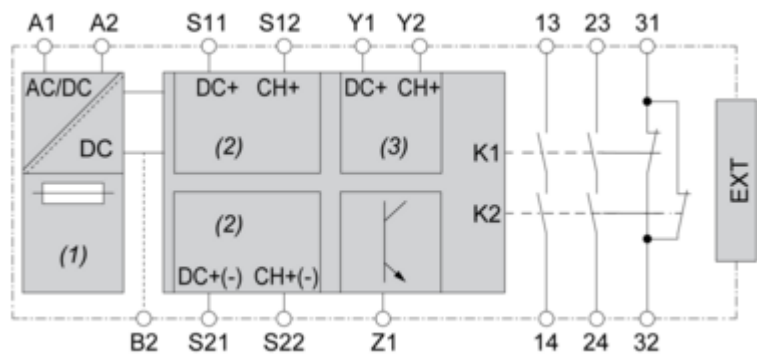


Screw-mounting



Connections and Schema

Wiring Drawing



- (1) : A1-A2 (Power supply)
(2) : S11-S12-S21-S22 (Single-channel safety input)
(3) : Y1-Y2 (Start)
13-23-31-14-24-32 : Output
EXT : Connector for optional extension module
B2 : Common ground terminal
Z1 : Pulsed output for diagnostics, not safety-related

Image of product / Alternate images

Alternative



