

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

XPSUAK32AP

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 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 = 1.61E-09 conforming to ISO 13849-1		
	HFT = 1 conforming to IEC 62061		
	PFHd = 1.61E-09 conforming to IEC 62061		
	SFF > 99% conforming to IEC 62061		
	HFT = 1 conforming to IEC 61508-1		
	PFHd = 1.61E-09 conforming to IEC 61508-1		
	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	48240 V AC/DC - 1010 %		
Logi rated supply voltage	40240 V AO/DO - 1010 %		

Complementary

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 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				
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 for NO relay output circuit conforming to IEC 60947-1				
Minimum output current	10 mA for relay output				
Minimum output voltage	12 V for relay output				
[Ui] rated insulation voltage	250 V (pollution degree 2) conforming to IEC 60947-1				
[Uimp] rated impulse withstand voltage	4 kV overvoltage category II conforming to IEC 60947-1				
Mounting support	35 mm symmetrical DIN rail				
Depth	120 mm				
Height	100 mm				
Width	22.5 mm				
Product weight	0.200 kg				

Environment

Ambient air temperature for operation	-2555 °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) conforming to IEC 60529 IP40 (housing) conforming to IEC 60529 IP54 (mounting area) conforming to IEC 60529
Relative humidity	595 % non-condensing

Packing Units

Unit Type of Package 1	PCE
Number of Units in Package 1	1
Package 1 Height	7.000 cm
Package 1 Width	14.000 cm
Package 1 Length	16.000 cm
Package 1 Weight	291.000 g
Unit Type of Package 2	S03
Number of Units in Package 2	16
Package 2 Height	30.000 cm
Package 2 Width	30.000 cm
Package 2 Length	40.000 cm
Package 2 Weight	5.382 kg
Unit Type of Package 3	P06
Number of Units in Package 3	128
Package 3 Height	75.000 cm
Package 3 Width	60.000 cm
Package 3 Length	80.000 cm
Package 3 Weight	51.056 kg



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	
Total lifecycle Carbon footprint	103
Environmental Disclosure	Product Environmental Profile

Use Better

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

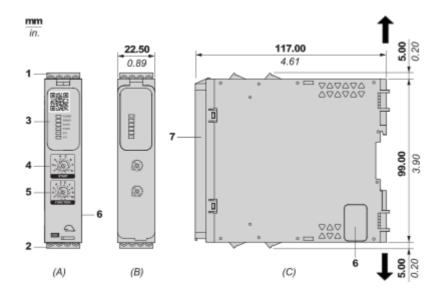
Use Again

○ Repack and remanufacture	
End of life manual availability	End of Life Information
Take-back	No
WEEE Label	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

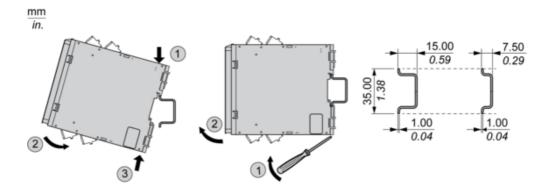
(6): Connector for optional output extension module (lateral)

(7): Sealable transparent cover

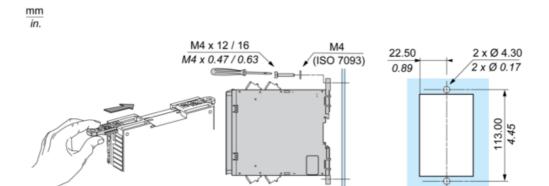
mm in.	7.0–8.0 0.28–0.31				a	
	mm²	0,2 2,5	0,252,5	0,21,5	0,251	0,51,5
	AWG	24 12	2412	2416	2418	2016
		(,c@m		Nm	0.5 0.6	
Ø 3,5 mm (0.14 in)				lb-in	4,4 5,3	

Mounting and Clearance

Mounting to DIN rail

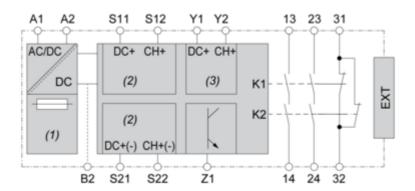


Screw-mounting



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





