

# Product data sheet

Specifications



**safety module, Harmony XPSU, Cat 4, potential free 2 NC, NO NC, 2 PNP, 48 to 240V AC or DC, spring**

XPSUAF33AC

## Main

Range of product	Harmony Safety Automation
Product or component type	Safety module
Safety module name	XPSUAF
Safety module application	Monitoring antivalent contacts For emergency stop, guard and light curtain monitoring
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) Proximity sensor monitoring
Safety level	Can reach PL e/category 4 conforming to ISO 13849-1 Can reach SIL CL 3 conforming to IEC 62061 Can reach SIL 3 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 spring terminal block, 0.2...2.5 mm <sup>2</sup> solid or flexible Removable spring terminal block, 0.25...2.5 mm <sup>2</sup> flexible with ferrule single conductor Removable spring terminal block, 0.2...1.5 mm <sup>2</sup> solid or flexible twin conductor Removable spring terminal block, 2 x 0.25...1 mm <sup>2</sup> flexible with ferrule without cable end, with bezel Removable spring terminal block, 2 x 0.5...1.5 mm <sup>2</sup> flexible with ferrule with cable end, with bezel
[Us] rated supply voltage	48...240 V AC/DC - 10...10 %

## 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

<b>Input protection type</b>	Internal, electronic
<b>safety outputs</b>	3 NO
<b>safety inputs</b>	2 safety input 24 V DC 5 mA
<b>maximum wire resistance</b>	500 Ohm
<b>Input compatibility</b>	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
<b>[Ie] rated operational current</b>	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
<b>control outputs</b>	3 on/off configurable pulsed output
<b>Input/output type</b>	Semiconductor pulsed diagnostic output 24 V DC, 20 mA Z1, not safety-related
<b>[Ith] conventional free air thermal current</b>	8 A
<b>Associated fuse rating</b>	10 A gG for NO relay output circuit conforming to IEC 60947-1
<b>Minimum output current</b>	10 mA for relay output
<b>Minimum output voltage</b>	15 V for relay output
<b>Maximum response time on input open</b>	20 ms
<b>[Ui] rated insulation voltage</b>	250 V (pollution degree 2) conforming to IEC 60947-1
<b>[Uiimp] rated impulse withstand voltage</b>	4 kV overvoltage category II conforming to IEC 60947-1
<b>Local signalling</b>	LED (green) for power ON LED (red) for error LED (yellow) for start LED (yellow) for safety status LED (yellow) for safety input S12 LED (yellow) for safety input S22
<b>Mounting support</b>	35 mm symmetrical DIN rail
<b>Depth</b>	120 mm
<b>Height</b>	100 mm
<b>Width</b>	22.5 mm
<b>Product weight</b>	0.200 kg

## Environment

<b>Standards</b>	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
<b>Product certifications</b>	TÜV cULus
<b>IP degree of protection</b>	IP20 (terminals) conforming to IEC 60529 IP40 (housing) conforming to IEC 60529 IP54 (mounting area) conforming to IEC 60529
<b>Ambient air temperature for storage</b>	-25...85 °C

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Relative humidity 5...95 % non-condensing

## Packing Units

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Unit Type of Package 1 PCE

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Number of Units in Package 1 1

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Package 1 Height 6.8 cm

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Package 1 Width 14 cm

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Package 1 Length 15.8 cm

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Package 1 Weight 292 g

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Unit Type of Package 2 S03

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Number of Units in Package 2 16

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Package 2 Height 30 cm

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Package 2 Width 30 cm

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Package 2 Length 40 cm

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Package 2 Weight 5.422 kg

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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	<a href="#">Product Environmental Profile</a>

## Use Better

### Materials and Substances

Packaging made with recycled cardboard	Yes
Packaging without single use plastic	No
<a href="#">EU RoHS Directive</a>	Pro-active compliance (Product out of EU RoHS legal scope)
SCIP Number	152cf799-1df7-4892-81b4-4c890187f1d1
REACH Regulation	<a href="#">REACH Declaration</a>
California proposition 65	<b>WARNING:</b> 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 <a href="#">www.P65Warnings.ca.gov</a>
PVC free	Yes

## Use Again

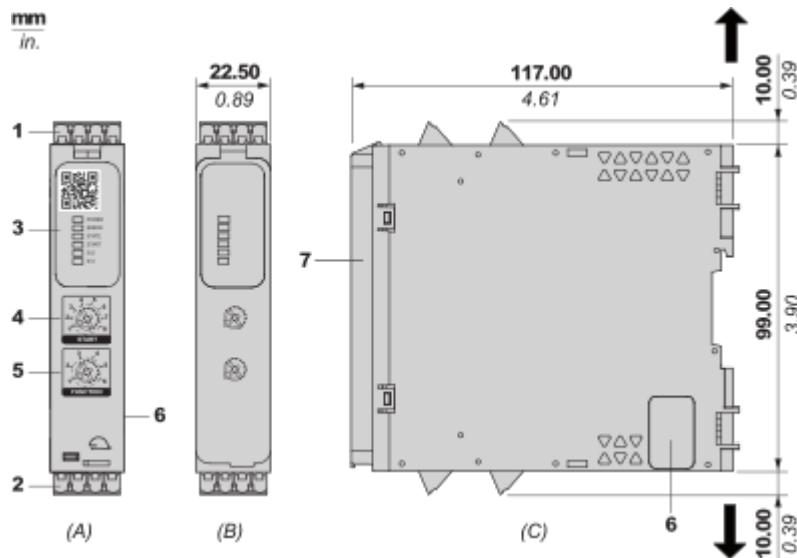
### Repack and remanufacture

End of life manual availability	<a href="#">End of Life Information</a>
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) : Spring Terminal

(C) : Side view

(1) : Removable terminal blocks, top

(2) : Removable terminal blocks, bottom

(3) : LED indicators

(4) : Start function selector

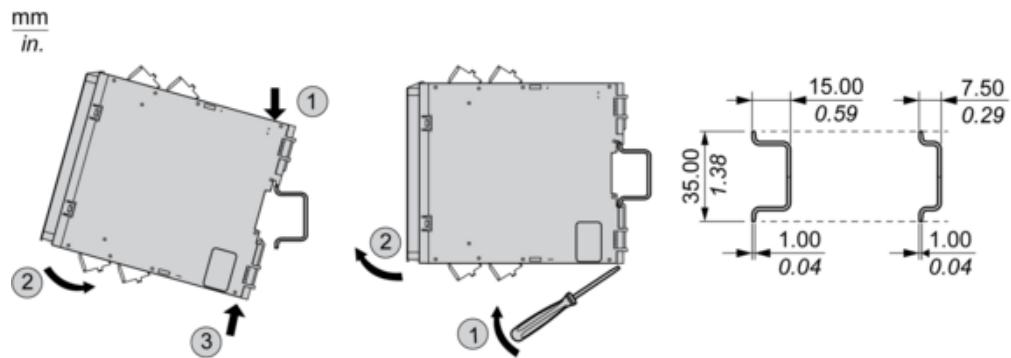
(5) : Function selector

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

(7) : Sealable transparent cover

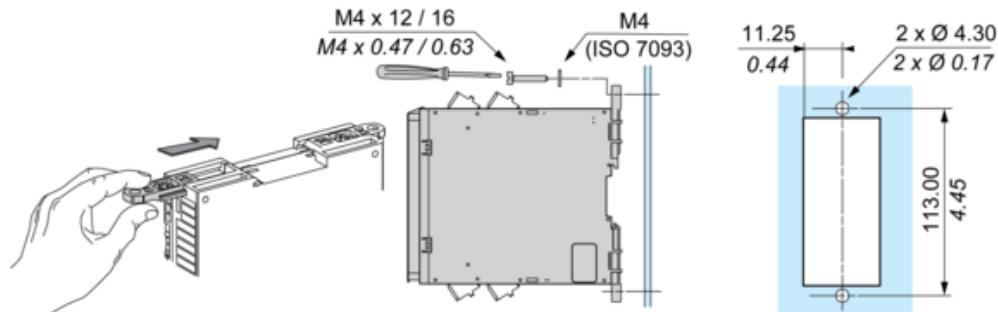
mm in.	12.0 0.47				
mm <sup>2</sup>	0,2...2,5	0,25...2,5	0,2...1,5	0,25...1	0,5...1,5
AWG	24...12	24...12	24...16	24...18	20...16

## Mounting and Clearance

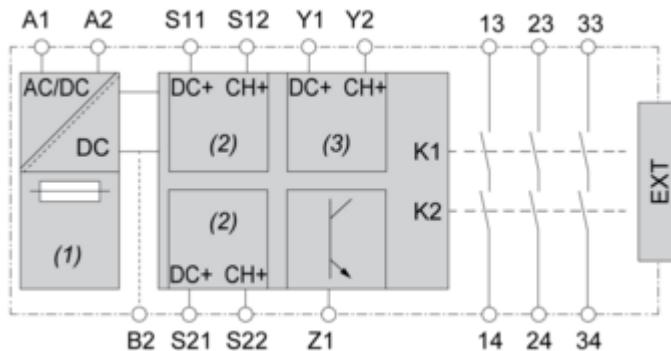
Mounting to DIN rail

Screw-mounting

mm  
in.



## Connections and Schema

Wiring Drawing

(1) : A1-A2 (Power supply)

(2) : S11-S12-S21-S22 (Single-channel safety input)

(3) : Y1-Y2 (Start)

13-23-33-14-24-34 : 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

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