

# Product datasheet

Specifications



## Preventa module Cat.4 features XPSUAK + delayed outputs 48-240vac/dc spring

XPSUAT33A3AC

EAN Code: 3606489601706

### Main

<b>Range of product</b>	Harmony Safety Automation
<b>Product or component type</b>	Safety module
<b>Safety module name</b>	XPSUAT
<b>Safety module application</b>	Monitoring antivalent contacts For emergency stop, guard and light curtain monitoring Monitoring of pressure-sensitive 4-wire protective devices
<b>Function of module</b>	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
<b>Safety level</b>	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
<b>Safety reliability data</b>	MTTFd > 30 years conforming to ISO 13849-1 Dcavg >= 99 % conforming to ISO 13849-1 PFHd = 1.47E-09 conforming to ISO 13849-1 for SS0 PFHd = 1.48E-09 conforming to ISO 13849-1 for SS1 HFT = 1 conforming to IEC 62061 PFHd = 1.47E-09 conforming to IEC 62061 for SS0 PFHd = 1.48E-09 conforming to IEC 62061 for SS1 SFF > 99% conforming to IEC 62061 HFT = 1 conforming to IEC 61508-1 PFHd = 1.47E-09 conforming to IEC 61508-1 for SS0 PFHd = 1.48E-09 conforming to IEC 61508-1 for SS1 SFF > 99% conforming to IEC 61508-1 Type = B conforming to IEC 61508-1
<b>Electrical circuit type</b>	NC pair PNP pair Antivalent pair OSSD pair
<b>Connections - terminals</b>	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
<b>[Us] rated supply voltage</b>	48...240 V AC/DC - 10...10 %

## Complementary

<b>Synchronisation time between inputs</b>	0.5 s 2 s 4 s
<b>Type of start</b>	Automatic/manual/monitored
<b>Power consumption in W</b>	4 W 48 V DC
<b>Power consumption in VA</b>	10 VA 240 V AC 50/60 Hz
<b>Input protection type</b>	Internal, electronic
<b>safety outputs</b>	1 NC configurable 3 NO configurable 3 NO immediate
<b>safety inputs</b>	2 positive safety input 24 V DC 8 mA 1 negative safety input
<b>maximum wire resistance</b>	500 Ohm
<b>Time delay range</b>	0...900 s off delay
<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 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
<b>control outputs</b>	4 on/off configurable pulsed output
<b>Input/output type</b>	Pulsed output for diagnostics 24 V DC, 20 mA Z1, not safety-related Semiconductor output 24 V DC, 20 mA Z2, not safety-related
<b>[Ith] conventional free air thermal current</b>	16 A
<b>Associated fuse rating</b>	10 A gG for NO relay output circuit conforming to IEC 60947-1
<b>Minimum output current</b>	20 mA for relay output
<b>Minimum output voltage</b>	24 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>[Uimp] rated impulse withstand voltage</b>	4 kV overvoltage category II conforming to IEC 60947-1
<b>Mounting support</b>	35 mm symmetrical DIN rail
<b>Depth</b>	120 mm
<b>Height</b>	100 mm
<b>Width</b>	45 mm
<b>Net weight</b>	0.350 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>	IP54 (mounting area) conforming to IEC 60947-1 IP40 (housing) conforming to IEC 60947-1 IP20 (terminals) conforming to IEC 60947-1
<b>Ambient air temperature for storage</b>	-25...85 °C
<b>Relative humidity</b>	5...95 % non-condensing

## Packing Units

<b>Unit Type of Package 1</b>	PCE
<b>Number of Units in Package 1</b>	1
<b>Package 1 Height</b>	6.800 cm
<b>Package 1 Width</b>	14.000 cm
<b>Package 1 Length</b>	15.800 cm
<b>Package 1 Weight</b>	460.000 g
<b>Unit Type of Package 2</b>	S03
<b>Number of Units in Package 2</b>	16
<b>Package 2 Height</b>	30.000 cm
<b>Package 2 Width</b>	30.000 cm
<b>Package 2 Length</b>	40.000 cm
<b>Package 2 Weight</b>	8.170 kg

## Logistical informations

<b>Country of origin</b>	ID
--------------------------	----

## Contractual warranty

<b>Warranty</b>	18 months
-----------------	-----------

## 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

Total lifecycle Carbon footprint 139

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](#)

PVC free Yes

## Use Again

### Repack and remanufacture

End of life manual availability [End of Life Information](#)

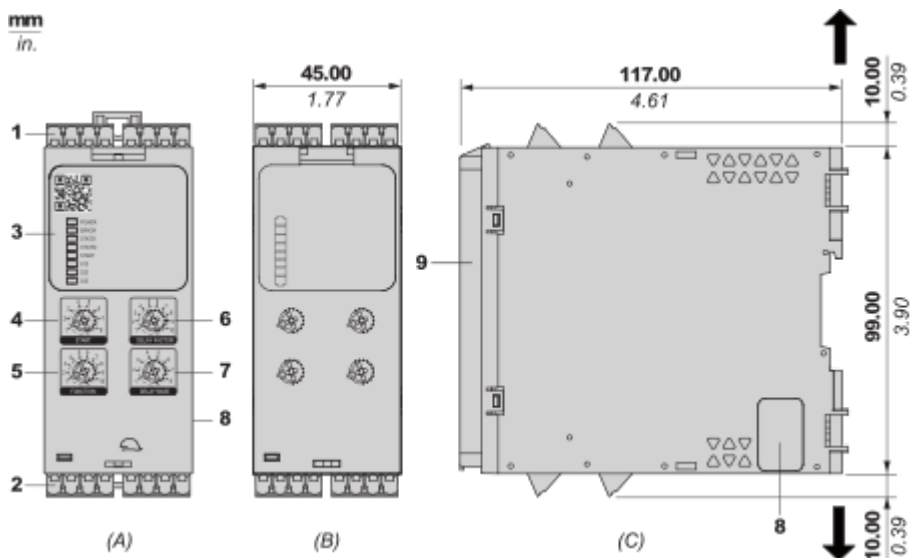
Take-back No

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



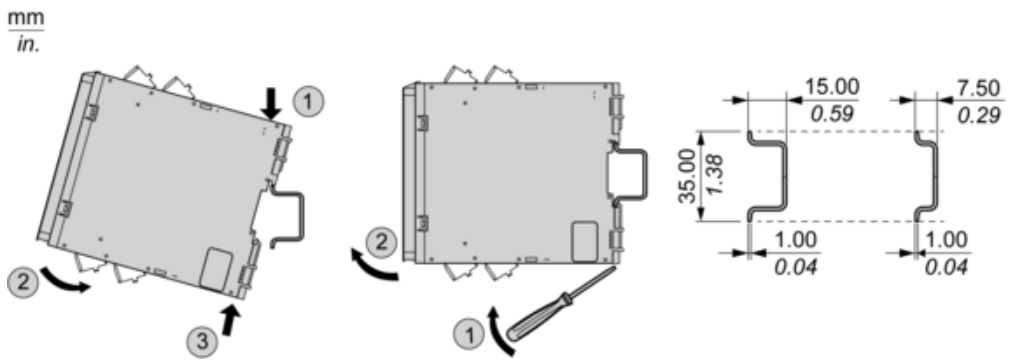
- (A) : Product drawing
- (B) : Spring Terminal
- (C) : Side view
- (1) : Removable terminal blocks, top
- (2) : Removable terminal blocks, bottom
- (3) : LED indicators
- (4) : Start function selector
- (5) : Function selector
- (6) : Delay factor selector
- (7) : Delay base selector
- (8) : Connector for optional output extension module (lateral)
- (9) : 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

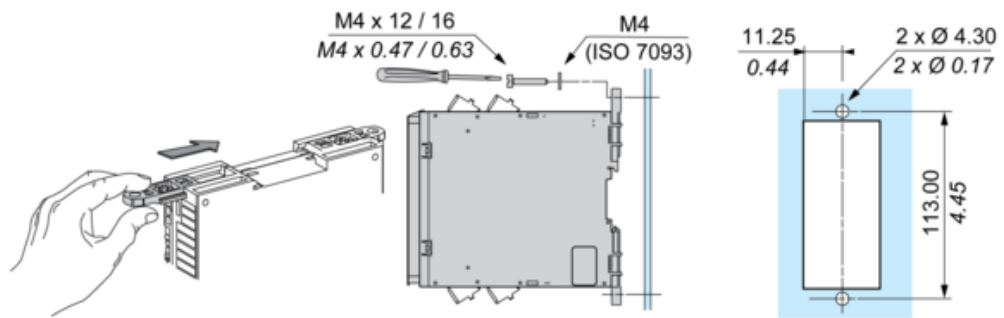
---



Screw-mounting

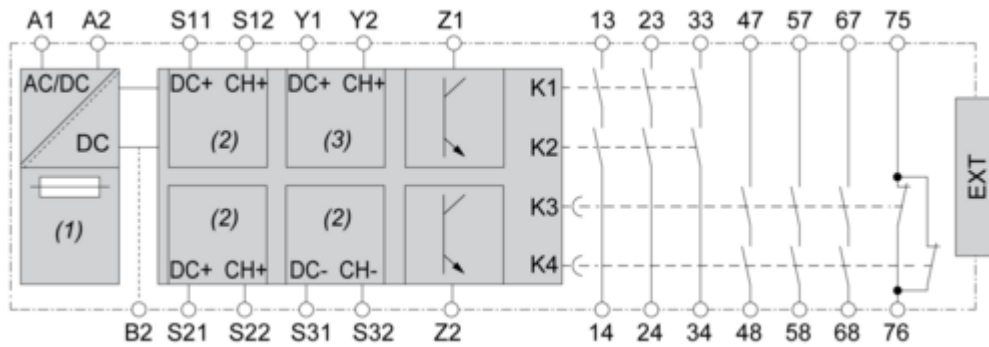
---

mm  
in.



Connections and Schema

Wiring Drawing



- (1) : A1-A2 (Power supply)
- (2) : S11-S12-S21-S22-S31-S32 (Single-channel safety input)
- (3) : Y1-Y2 (Start)
- 13-23-33-47-57-67-75-14-24-34-48-58-68-76 : Output
- EXT : Connector for optional extension module
- B2 : Common ground terminal
- Z1 : Pulsed output for diagnostics, not safety-related
- Z2 : Solid state output, not safety-related

Image of product / Alternate images

Alternative

---

