



## Main

Range of product	Preventa Safety automation
Product or component type	Safety controller with pre-defined function
Safety module name	XPSMP
Safety module application	2 independent functions
Safety use category	Category 4 maximum EN/IEC 60954-1
Type of start	Automatic or unmonitored 1) Automatic or unmonitored 10) Automatic or unmonitored 11) Automatic or unmonitored 14) Automatic or unmonitored 3) Automatic or unmonitored 5) Automatic or unmonitored 7) Monitored 12) Monitored 13) Monitored 15) Monitored 2) Monitored 4) Monitored 6) Monitored 8) Monitored 9)
Checks	Configuration 10) Configuration 13) Configuration 3) Configuration 4) Configuration 5) Configuration 6) Configuration 9)
Standards	DIN V VDE 801 + A1 EN/IEC 60204-1 EN/IEC 60947-1 + A11 EN/IEC 60947-5-1
Product certifications	UL BIA CSA

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

[Us] rated supply voltage	24 V DC - 20...20 %
Connections - terminals	<p>Captive screw clamp terminals, removable terminal block solid 0.2...1 mm<sup>2</sup> without cable end, 2 wires</p> <p>Captive screw clamp terminals, removable terminal block flexible 0.2...1.5 mm<sup>2</sup> without cable end, 2 wires</p> <p>Captive screw clamp terminals, removable terminal block flexible 0.2...2.5 mm<sup>2</sup> without cable end, 1 wire</p> <p>Captive screw clamp terminals, removable terminal block solid 0.2...2.5 mm<sup>2</sup> without cable end, 1 wire</p> <p>Captive screw clamp terminals, removable terminal block flexible 0.25...1 mm<sup>2</sup> with cable end, without bezel, 2 wires</p> <p>Captive screw clamp terminals, removable terminal block flexible 0.25...2.5 mm<sup>2</sup> with cable end, with bezel, 1 wire</p> <p>Captive screw clamp terminals, removable terminal block flexible 0.25...2.5 mm<sup>2</sup> with cable end, without bezel, 1 wire</p> <p>Captive screw clamp terminals, removable terminal block flexible 0.5...1.5 mm<sup>2</sup> with cable end, with double bezel, 2 wires</p>
Safety level	<p>Can reach PL e/category 4 EN/ISO 13849-1</p> <p>Can reach SIL 3 EN/IEC 62061</p>

## Complementary

Function of module	<p>0 functions disabled (factory setting)</p> <p>1 emergency stop monitoring 1-channel wiring, category 2</p> <p>10 enabling grip switch monitoring (3-position switch), category 4</p> <p>11 sensing mat and edges monitoring, category 3</p> <p>12 sensing mat and edges monitoring, category 3</p> <p>13 relay output safety light curtain monitoring, category 4</p> <p>14 coded magnetic switch monitoring, category 4</p> <p>15 coded magnetic switch monitoring, category 4</p> <p>2 emergency stop monitoring 1-channel wiring, category 2</p> <p>3 emergency stop monitoring 2-channel wiring, or guard monitoring, category 4</p> <p>4 emergency stop monitoring 2-channel wiring, or guard monitoring, category 4</p> <p>5 emergency stop monitoring 2-channel wiring, or guard monitoring, category 4</p> <p>6 emergency stop monitoring 2-channel wiring, or guard monitoring, category 4</p> <p>7 emergency stop monitoring 2-channel wiring, or guard monitoring, category 4</p> <p>8 emergency stop monitoring 2-channel wiring, or guard monitoring, category 4</p> <p>9 guard monitoring for injection presses and blowing machines, category 4</p>
Synchronisation time between inputs	<p>0.5 s 13)</p> <p>1.5 s 14)</p> <p>1.5 s 15)</p> <p>1.5 s 5)</p> <p>1.5 s 6)</p> <p>1.5 s 9)</p> <p>Unlimited 3)</p> <p>Unlimited 4)</p> <p>Unlimited 7)</p> <p>Unlimited 8)</p>
Maximum power consumption in W	5 W
Input protection type	Internal, electronic
[Uc] control circuit voltage	24 V
Maximum line resistance	100 Ohm <6561.68 ft (2000 m)
Number of safety circuits	3 NO relays per function (6 NO total), volt-free
Number of additional circuits	3 solid state outputs
Breaking capacity	<p>180 VA holding AC-15 C300 relay output</p> <p>1800 VA inrush AC-15 C300 relay output</p>
Breaking capacity	<p>20 mA 24 V static output circuit</p> <p>1.5 A at 24 V (DC-13) time constant: 50 ms for relay output</p>
Output thermal current	<p>2 A for 1 output and 4 A for the other 2 outputs relay</p> <p>3.3 A for all 3 outputs relay simultaneously</p> <p>6 A for 1 output and 2 A for the other 2 outputs relay</p>
[Ith] conventional free air thermal current	20 A
Associated fuse rating	<p>4 A gG for relay output conforming to EN/IEC 60947-5-1, DIN VDE 0660 part 200</p> <p>6 A fast blow for relay output conforming to EN/IEC 60947-5-1, DIN VDE 0660 part 200</p>
Minimum output current	10 mA for relay output
Minimum output voltage	17 V for relay output

Maximum response time on input open	30 ms
[Ui] rated insulation voltage	300 V 2)EN/IEC 60947-5-1, DIN VDE 0110 parts 1 & 2
[Uimp] rated impulse withstand voltage	4 kV III EN/IEC 60947-5-1, DIN VDE 0110 parts 1 & 2
Local signalling	12 LEDs
Mounting support	35 mm symmetrical DIN rail
Depth	4.49 in (114 mm)
Height	3.90 in (99 mm)
Width	1.77 in (45 mm)
Net weight	0.71 lb(US) (0.32 kg)

## Environment

IP degree of protection	IP20 terminals) IP40 enclosure)
Ambient air temperature for operation	14...131 °F (-10...55 °C)
Ambient air temperature for storage	-13...185 °F (-25...85 °C)

## Packing Units

Package 1 Weight	0.95 lb(US) (0.429 kg)
Package 1 Height	0.620 dm
Package 1 width	1.600 dm
Package 1 Length	1.170 dm

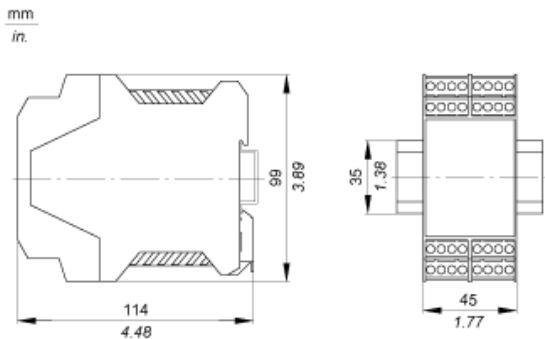
## Offer Sustainability

Sustainable offer status	Green Premium product
REACH Regulation	<a href="#">REACH Declaration</a>
EU RoHS Directive	Pro-active compliance (Product out of EU RoHS legal scope) <a href="#">EU RoHS Declaration</a>
Mercury free	Yes
RoHS exemption information	<a href="#">Yes</a>
China RoHS Regulation	<a href="#">China RoHS declaration</a>
Environmental Disclosure	<a href="#">Product Environmental Profile</a>
Circularity Profile	<a href="#">End of Life Information</a>
WEEE	The product must be disposed on European Union markets following specific waste collection and never end up in rubbish bins
PVC free	Yes

## Contractual warranty

Warranty	18 months
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Dimensions



## Wiring Diagrams

### Refer to the Instruction Sheet

To download the instruction sheet, follow below procedure:

**XPSAC5121**  
module XPSAC - Emergency stop - 24 V AC DC  
[Download XPSAC5121 product datasheet](#)

Download & Documents 1 to 3 of 3 (Total: -1)

**Instruction sheet**

XPSAC... Safety module for emergency stop and switch monitoring	English 2012-07-04	pdf (29)
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**Image of product**

Emergency stop and switch monitoring	2010-11-10	(Select :)
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**Certificate**

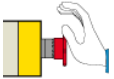

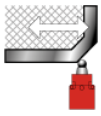



Russian certificate	English 2010-07-07	pdf (60)
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- 1 Click on Download & Documents.
- 2 Click on Instruction sheet.

Safety Functions

	<ul style="list-style-type: none"> <li>• Emergency stop monitoring, 1 channel wiring:                         <ul style="list-style-type: none"> <li>○ 1 channel Emergency stop, automatic or unmonitored start.</li> <li>○ 1 channel Emergency stop, monitored start.</li> </ul> </li> <li>• Emergency stop monitoring, 2 channel wiring:                         <ul style="list-style-type: none"> <li>○ 2 channel Emergency stop, automatic or unmonitored start.</li> <li>○ 2 channel Emergency stop, monitored start.</li> </ul> </li> </ul>
	<ul style="list-style-type: none"> <li>• Coded magnetic switch monitoring:                         <ul style="list-style-type: none"> <li>○ Automatic or unmonitored start, synchronization time = 1,5 s.</li> <li>○ Monitored start, synchronization time = 1,5 s.</li> </ul> </li> </ul>
	<ul style="list-style-type: none"> <li>• Guard monitoring with start test:                         <ul style="list-style-type: none"> <li>○ Locking of guard with start test, automatic or unmonitored start.</li> <li>○ Locking of guard with start test, monitored start.</li> </ul> </li> <li>• Guard monitoring with start test and synchronization time = 1,5 ms:                         <ul style="list-style-type: none"> <li>○ Locking of guard with start test, automatic or unmonitored start.</li> <li>○ Locking of guard with start test, monitored start.</li> </ul> </li> <li>• Guard monitoring for injection press or blowing machine.</li> </ul>
	<ul style="list-style-type: none"> <li>• Enabling switch monitoring, safety mat monitoring:                         <ul style="list-style-type: none"> <li>○ Enabling switch monitoring, with or without start-up preparation.</li> <li>○ Safety mat monitoring, automatic or unmonitored start.</li> </ul> </li> </ul>
	<ul style="list-style-type: none"> <li>• Sensing mat monitoring, monitored start.</li> </ul>
	<ul style="list-style-type: none"> <li>• Light curtain monitoring, monitored start, synchronization time = 0,5 s.</li> </ul>