

# XPSMC16ZCPACK

safety controller XPS-MC - 24 V DC - 16 input - 32 LEDs signalling



## Main

Range of product	Preventa Safety automation
Product or Component Type	Kit configurable safety controller
Safety module name	XPSMC
Safety use category	Category 4 maximum EN 954-1/EN/ISO 13849-1 PLE maximum EN/ISO 13849-1 SIL 3 maximum IEC 61508
Type of start	Configurable
Standards	IEC 61508 EN 954-1/EN/ISO 13849-1 EN/IEC 61496-1 EN/IEC 60204-1 EN 1760-1/ISO 13856-1 EN 574/ISO 13851 EN/IEC 60947-5-1
Product Certifications	CSA UL TÜV
[Us] Rated Supply Voltage	24 V DC - 20...20 %
Number of inputs	16
Communication port protocol	CANopen 1 SUB-D 9-pin male, serial link 20 kbps, 50 kbps, 125 kbps, 250 kbps, 500 kbps, 800 kbps or 1 Mbps Modbus 1 RJ45, serial link 1200 bps, 2400 bps, 4800 bps, 9600 bps or 19200 bps
Safety level	Can reach PL e/category 4 EN 954-1/EN/ISO 13849-1 Can reach SIL 3 IEC 61508

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## Complementary

Kit composition	<p>Set of cage clamp terminals            Configuration software            CANopen SUB-D female connector 180            Packaging small model for software configuration            Safety controller            Ethernet cable 2m            CANopen SUB-D female connector 90            USB/RS485 converter            VDE slot screwdriver 2.5 x 75 mm            Set of screw terminals            Connection cable            Printed packaging label 80 x 50 mm</p>
Function of module	<p>Dynamic monitoring of hydraulic valves on linear presses            Eccentric press            Emergency stop monitoring, with or without time delay, 1 or 2-channel wiring            Enabling switch monitoring, 2 or 3 contacts            Foot switch monitoring            Guard monitoring for injection presses and blowing machines            Guard monitoring with 1 or 2 limit switches            Hydraulic press            Magnetic switch monitoring            Monitoring safety stop at top dead centre on eccentric press            Muting function of light curtains            Position selector            Safety mat monitoring            Safety time delays            Shaft/Chain breaking monitor            Zero speed detection            Light curtain monitoring category 4 EN/IEC 61496            Two-hand control category 3 EN 574/ISO 13851</p>
Synchronisation time between inputs	Depending on configuration selected
Power consumption in W	12 W
Input protection type	External fuse 16 A
[Uc] control circuit voltage	28.8 V
Maximum line resistance	100 Ohm <6561.68 ft (2000 m)
Output type	2 relays, 2 NO contacts (4 NO total) Solid state, 6, volt-free
Breaking capacity	180 VA holding AC-15 C300 relay output 1800 VA inrush AC-15 C300 relay output
Breaking capacity	2 A 24 V static output circuit 1.5 A 24 V DC-13)50 ms relay output
Output thermal current	4 A for both outputs simultaneously 6 A for 1 output and 2 A for the other relay output
[Ith] conventional free air thermal current	16 A relay output 6.5 A static output circuit
Associated fuse rating	16 A gL power supply 4 A gL relay output 6 A fast blow relay output
Minimum output current	10 mA relay output
Minimum output voltage	17 V relay output
Response Time	Configurable : 20 ms or 30 ms with software XPSMCWIN
[Ui] rated insulation voltage	300 V 2)IEC 60647-5-1, DIN VDE 0110 part 1
[Uimp] rated impulse withstand voltage	4 kV III IEC 60647-5-1, DIN VDE 0110 part 1
Method of access	Slave
Exchange size	14 words
Number of addresses	1...127 CANopen 1...247 Modbus
Parity	Even Modbus No Modbus Odd Modbus
Data format	1 start bit/8 data bits 1 stop bit even or odd 2 stop bits without parity RTU (Remote Terminal Unit) mode
Supported modbus function	01 8-bit output data/32-bit input data 02 32-bit input data/8-bit output data 03 information and errors

Local signalling	32 LEDs
Mounting Support	Mounting plate
Depth	6.02 in (153 mm)
Height	5.96 in (151.5 mm)
Width	2.91 in (74 mm)
Product Weight	1.81 lb(US) (0.82 kg)

## Environment

IP degree of protection	IP20 conforming to EN/IEC 60529
Ambient Air Temperature for Operation	14...131 °F (-10...55 °C)
Ambient Air Temperature for Storage	-13...185 °F (-25...85 °C)

## Ordering and shipping details

Category	22477 - SAFETY MODULES (PREVENTA)
Discount Schedule	SAF2
GTIN	3389119018258
Nbr. of units in pkg.	1
Package weight(Lbs)	5.47 lb(US) (2.481 kg)
Returnability	No
Country of origin	FR

## Packing Units

Unit Type of Package 1	PCE
Package 1 Height	9.65 in (24.5 cm)
Package 1 width	9.65 in (24.5 cm)
Package 1 Length	10.83 in (27.5 cm)

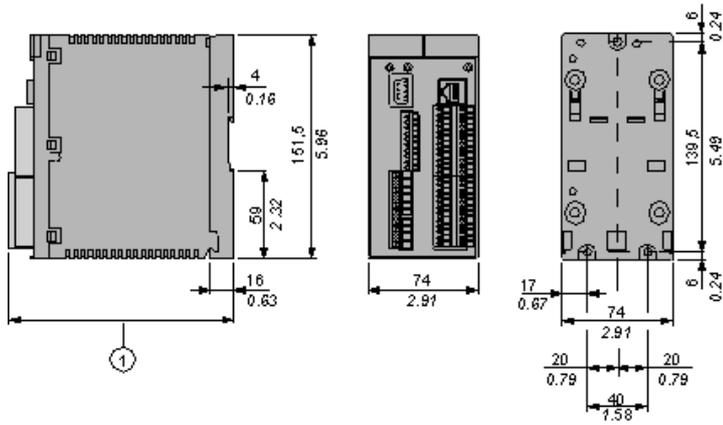
## Offer Sustainability

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 <a href="http://www.P65Warnings.ca.gov">www.P65Warnings.ca.gov</a>
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

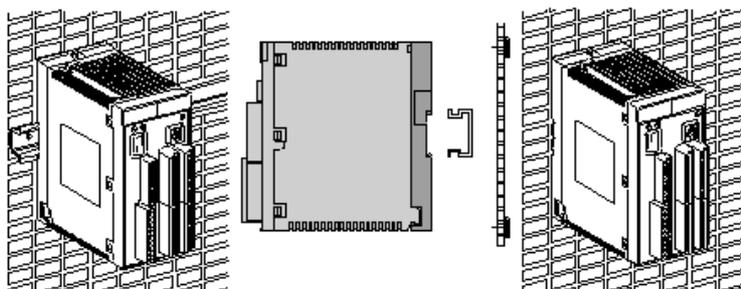
Warranty	18 months
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## Dimensions



- 1 When using XPSMCTS• connectors this dimension is 153 mm (6.02 in)  
When using XPSMCTC• connectors this dimension is 151,5 mm (5.96 in)

## Installation



Metal adaptor for fixing on metal: DIN rail 35 mm/1.38 in.

## 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 (28)
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**Image of product**

Emergency stop and switch monitoring	2010-11-10	{Select : }
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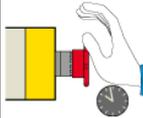
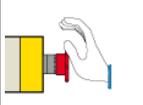
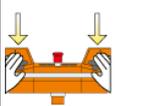
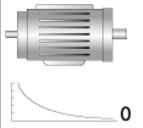
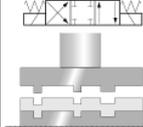
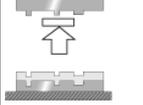
**Certificate**

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 with time delay:                     <ul style="list-style-type: none"> <li>○ 1 channel wiring, with automatic start.</li> <li>○ 2 channel wiring, with start button.</li> </ul> </li> </ul>
	<ul style="list-style-type: none"> <li>• Emergency stop monitoring without time delay:                     <ul style="list-style-type: none"> <li>○ 1 channel wiring, with automatic start.</li> <li>○ 2 channel wiring, with start button.</li> </ul> </li> </ul>
	<ul style="list-style-type: none"> <li>• Two-hand control.</li> </ul>
	<ul style="list-style-type: none"> <li>• Guard monitoring:                     <ul style="list-style-type: none"> <li>○ with 1 limit switch.</li> <li>○ with 2 limit switches.</li> <li>○ with 2 limit switches, with guard locking.</li> </ul> </li> <li>• Guard monitoring for injection presses and blowing machines.</li> </ul>
	<ul style="list-style-type: none"> <li>• Magnetic switch monitoring.</li> </ul>
	<ul style="list-style-type: none"> <li>• Sensing mat monitoring.</li> </ul>
	<ul style="list-style-type: none"> <li>• Light curtains monitoring:                     <ul style="list-style-type: none"> <li>○ Relay output type.</li> <li>○ Solid-state output type.</li> </ul> </li> <li>• "Muting" function for light curtains.</li> </ul>
	<ul style="list-style-type: none"> <li>• Zero speed detection.</li> </ul>
	<ul style="list-style-type: none"> <li>• Dynamic monitoring of hydraulic valves on linear presses.</li> </ul>
	<ul style="list-style-type: none"> <li>• Safety time delays.</li> </ul>
	<ul style="list-style-type: none"> <li>• Monitoring safety stop at top dead centre on eccentric press.</li> <li>• Hydraulic press.</li> <li>• Eccentric press.</li> </ul>



- Enabling switching monitoring:
  - 2 contact type.
  - 3 contact type.

Other functions:

- Foot switch monitoring
- Chain shaft breakage monitoring
- Position selector