

# XPSMC32ZPACK

safety controller XPS-MC - 24 V DC - 32 input - 46 LEDs signalling

Product availability: Non-Stock - Not normally stocked in distribution facility



## 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 conforming to EN 954-1/EN/ISO 13849-1 PLE maximum conforming to EN/ISO 13849-1 SIL 3 maximum conforming to IEC 61508
Type of start	Configurable
Standards	EN 574/ISO 13851 EN/IEC 60947-5-1 EN 1760-1/ISO 13856-1 EN/IEC 60204-1 EN/IEC 61496-1 EN 954-1/EN/ISO 13849-1 IEC 61508
Product certifications	TÜV CSA UL
[Us] rated supply voltage	24 V DC - 20...20 %
Number of inputs	32
Communication port protocol	Modbus with 1 RJ45 port(s), serial link, transmission rate: 1200 bps, 2400 bps, 4800 bps, 9600 bps or 19200 bps
Safety level	Can reach PL e/category 4 conforming to EN 954-1/EN/ISO 13849-1 Can reach SIL 3 conforming to IEC 61508

## Complementary

Kit composition	USB/RS485 converter Set of screw terminals Set of cage clamp terminals VDE slot screwdriver 2.5 x 75 mm Safety controller Printed packaging label 80 x 50 mm Ethernet cable 2m Configuration software Connection cable Packaging small model for software configuration
Function of module	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) conforming to EN/IEC 61496 Two-hand control (category 3) conforming to EN 574/ISO 13851
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
Line resistance	100 Ohm 2000 m
Output type	2 relays, 2 NO contacts (4 NO total) circuit(s) Solid state, 6 circuit(s), volt-free
Breaking capacity	C300: holding 180 VA AC-15 relay output C300: inrush 1800 VA AC-15 relay output
Breaking capacity	1.5 A/24 V - L/R = 50 ms, DC-13 relay output 2 A/24 V for static output circuit
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 for relay output <= 6.5 A for static output circuit
Associated fuse rating	16 A gL for power supply 4 A gL for relay output 6 A fast blow for 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, degree of pollution 2 conforming to IEC 60647-5-1, DIN VDE 0110 part 1
[Uimp] rated impulse withstand voltage	4 kV overvoltage category III conforming to IEC 60647-5-1, DIN VDE 0110 part 1
Method of access	Slave
Exchange size	14 words
Number of addresses	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	46 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	1.85 lb(US) (0.84 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	003389119018241
Nbr. of units in pkg.	1
Package weight(Lbs)	4.4100000000000001
Returnability	N
Country of origin	FR

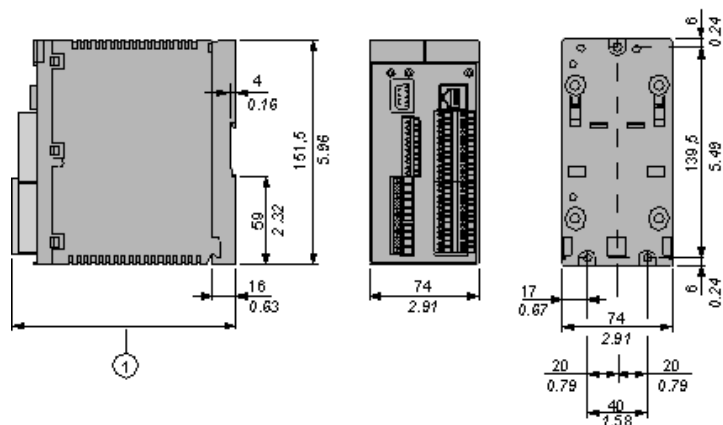
## Offer Sustainability

California proposition 65	WARNING: This product can expose you to chemicals including:
- - - - - Substance 1	Lead and lead compounds, which is known to the State of California to cause cancer and birth defects or other reproductive harm.
- - - - - More information	For more information go to <a href="http://www.p65warnings.ca.gov">www.p65warnings.ca.gov</a>

## Contractual warranty

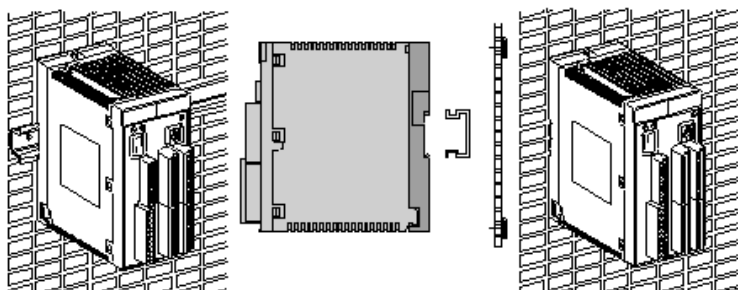
Warranty period	18 months
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## Dimensions



- 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:

The screenshot shows the Schneider Electric website interface for the XPSAC5121 module. On the left, a sidebar titled 'Discover XPSAC5121 by' lists several categories: Characteristics, Dimensions Drawings, Connections and Schema, Technical Description, and Download & Documents. The 'Download & Documents' category is highlighted with a red box and a circled '1' below it. The main content area displays the product name 'XPSAC5121' and its description 'module XPSAC - Emergency stop - 24 V AC DC'. Below this, there is a link to 'Download XPSAC5121 product datasheet'. A table titled 'Download & Documents 1 to 3 of 3 (Total: -1)' lists three documents: 'Instruction sheet' (XPSAC... Safety module for emergency stop and switch monitoring, English 2012-07-04, pdf (28)), 'Image of product' (Emergency stop and switch monitoring, 2010-11-10, [Select :]), and 'Certificate' (Russian certificate, English 2010-07-07, pdf (60)). The 'Instruction sheet' row is highlighted with a red box and a circled '2' below it.

Discover XPSAC5121 by

- Characteristics
- Dimensions Drawings
- Connections and Schema
- Technical Description
- **Download & Documents**

**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)

**Image of product**

Emergency stop and switch monitoring	2010-11-10	[Select :]
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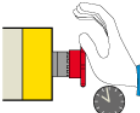

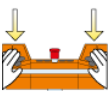
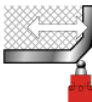



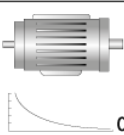
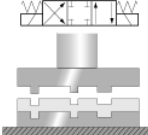
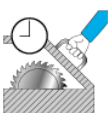
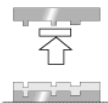
**Certificate**

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

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