

# Product data sheet

Specifications



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

XPSMC16ZC

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

**Price\*: 2,160.00 USD**

### Main

Range of Product	Preventa Safety automation
Product or Component Type	Configurable safety controller
Safety module name	XPSMC
Safety use category	Category 4 maximum EN 954-1/EN/ISO 13849-1 PLE maximum ISO 13849-1 SIL 3 maximum IEC 61508
Type of start	Configurable
Standards	IEC 61496-1 EN 574/ISO 13851 EN 1760-1/ISO 13856-1 IEC 61508 EN 954-1/EN/ISO 13849-1 IEC 60947-5-1 IEC 60204-1
Product Certifications	UL TÜV CSA
[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

### Complementary

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 category 4 EN/IEC 61496 Monitoring safety stop at top dead centre on eccentric press category 3 EN 574/ISO 13851 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 IEC 61496 Two-hand control category 3 EN 574/ISO 13851
Synchronisation time between inputs	Depending on configuration selected

Price is "List Price" and may be subject to a trade discount – check with your local distributor or retailer for actual price.

<b>Power consumption in W</b>	12 W
<b>Input protection type</b>	External fuse 16 A
<b>[Uc] control circuit voltage</b>	28.8 V
<b>Maximum line resistance</b>	100 Ohm <6561.7 ft (2000 m)
<b>Output type</b>	2 relays, 2 NO contacts (4 NO total) Solid state, 6, volt-free
<b>Breaking capacity</b>	180 VA holding AC-15 C300 relay output 1800 VA inrush AC-15 C300 relay output
<b>Breaking capacity</b>	2 A 24 V static output circuit 1.5 A 24 V DC-13)50 ms relay output
<b>Output thermal current</b>	4 A for both outputs simultaneously 6 A for 1 output and 2 A for the other relay output
<b>[Ith] conventional free air thermal current</b>	16 A relay output 6.5 A static output circuit
<b>Associated fuse rating</b>	16 A gL power supply 4 A gL relay output 6 A fast blow relay output
<b>Minimum output current</b>	10 mA relay output
<b>Minimum output voltage</b>	17 V relay output
<b>Response Time</b>	Configurable : 20 ms or 30 ms with software XPSMCWIN
<b>[Ui] rated insulation voltage</b>	300 V 2)IEC 60647-5-1, DIN VDE 0110 part 1
<b>[Uimp] rated impulse withstand voltage</b>	4 kV III IEC 60647-5-1, DIN VDE 0110 part 1
<b>Method of access</b>	Slave
<b>Exchange size</b>	14 words
<b>Number of addresses</b>	1...127 CANopen 1...247 Modbus
<b>Parity</b>	Even Modbus No Modbus Odd Modbus
<b>Data format</b>	1 start bit/8 data bits 1 stop bit even or odd 2 stop bits without parity RTU (Remote Terminal Unit) mode
<b>Supported modbus function</b>	01 8-bit output data/32-bit input data 02 32-bit input data/8-bit output data 03 information and errors
<b>Local signalling</b>	32 LEDs
<b>Mounting Support</b>	Mounting plate
<b>Depth</b>	6.02 in (153 mm)
<b>Height</b>	6.0 in (151.5 mm)
<b>Width</b>	2.9 in (74 mm)
<b>Net Weight</b>	1.81 lb(US) (0.82 kg)

## Environment

<b>IP degree of protection</b>	IP20 conforming to IEC 60529
<b>Ambient air temperature for operation</b>	14...131 °F (-10...55 °C)
<b>Ambient Air Temperature for Storage</b>	-13...185 °F (-25...85 °C)

## Ordering and shipping details

Category	US1SAF222477
Discount Schedule	SAF2
GTIN	3389119010252
Returnability	No
Country of origin	FR

## Packing Units

Unit Type of Package 1	PCE
Number of Units in Package 1	1
Package 1 Height	3.74 in (9.500 cm)
Package 1 Width	7.09 in (18.000 cm)
Package 1 Length	10.24 in (26.000 cm)
Package 1 Weight	2.789 lb(US) (1.265 kg)
Unit Type of Package 2	S04
Number of Units in Package 2	6
Package 2 Height	11.81 in (30.000 cm)
Package 2 Width	15.75 in (40.000 cm)
Package 2 Length	23.62 in (60.000 cm)
Package 2 Weight	18.649 lb(US) (8.459 kg)

## Contractual warranty

Warranty	18 months
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## 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

Carbon footprint (kg CO2 eq, Total Life cycle)	540
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Environmental Disclosure	<a href="#">Product Environmental Profile</a>
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## Use Better

### Materials and Substances

Packaging made with recycled cardboard	No
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Packaging without single use plastic	No
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EU RoHS Directive	Pro-active compliance (Product out of EU RoHS legal scope)
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REACH Regulation	<a href="#">REACH Declaration</a>
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China RoHS Regulation	<a href="#">China RoHS declaration</a>
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California proposition 65	<b>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></b>
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PVC free

Yes

## Use Again

 Repack and remanufacture

Circularity Profile

[End of Life Information](#)

WEEE



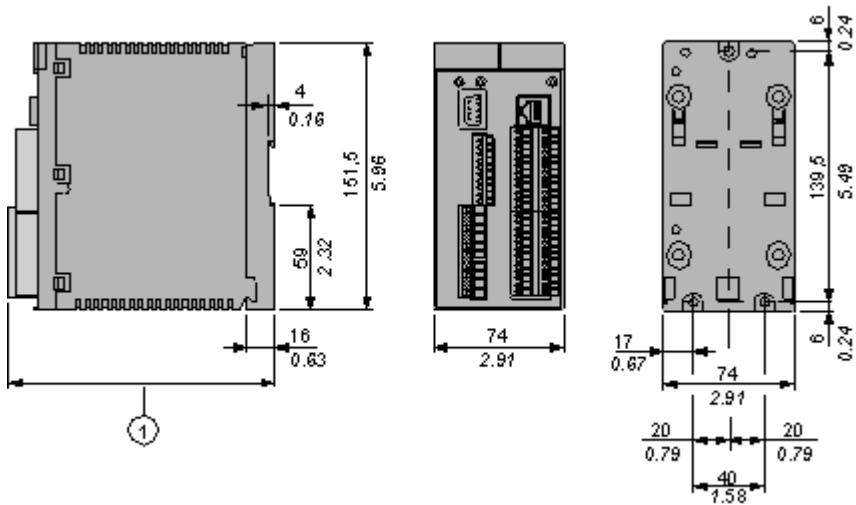
The product must be disposed on European Union markets following specific waste collection and never end up in rubbish bins.

Take-back

No

Dimensions Drawings

Dimensions

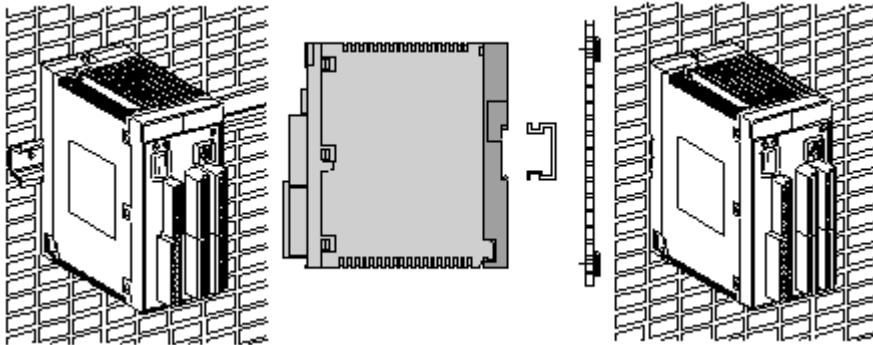


- 1 When using XPSMCTS• connectors this dimension is 153 mm (6.02 in)  
When using XPSMCTC• connectors this dimension is 151,5 mm (5.96 in)

Mounting and Clearance

Installation

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

## Connections and Schema

### 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](#)

Discover XPSAC5121 by

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

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1 Click on **Download & Documents**.

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

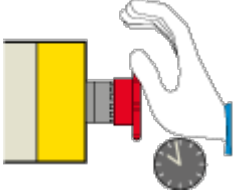
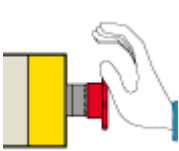
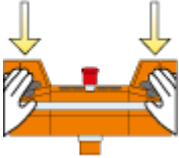
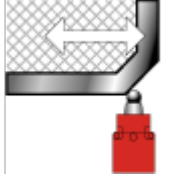

<b>Instruction sheet</b>		
XPSAC... Safety module for emergency stop and switch monitoring	English 2012-07-04	pdf (29)
<b>Image of product</b>		
Emergency stop and switch monitoring	2010-11-10	{Select : }
<b>Certificate</b>		
Russian certificate	English 2010-07-07	pdf (60)



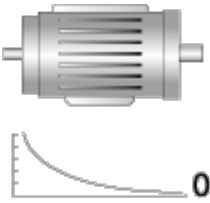
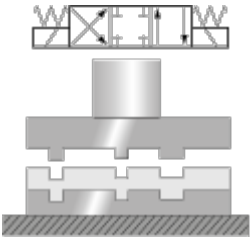
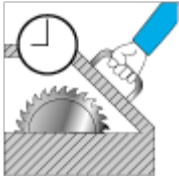
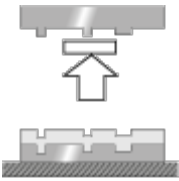
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2 Click on **Instruction sheet**.

Technical Description

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>

	<ul style="list-style-type: none"><li>• Enabling switching monitoring:<ul style="list-style-type: none"><li>◦ 2 contact type.</li><li>◦ 3 contact type.</li></ul></li></ul>
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Other functions:

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