

# safety controller, Harmony XPS MC, 24V DC, 32 inputs, 48 LEDs signalling, Profibus

XPSMC32ZP

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

#### 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	EN 954-1/EN/ISO 13849-1	
	IEC 61496-1	
	IEC 61508	
	IEC 60204-1	
	EN 1760-1/ISO 13856-1	
	EN 574/ISO 13851	
	IEC 60947-5-1	
Product Certifications	CSA	
	UL	
	TÜV	
[Us] Rated Supply Voltage	24 V DC - 2020 %	
Number of inputs	32	
Communication port protocol	Modbus 1 RJ45, serial link 1200 bps, 2400 bps, 4800 bps, 9600 bps or 19200 bps Profibus 1 SUB-D 9-pin female, serial link 12 Mbps	
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
Power consumption in W	12 W

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

Input protection type	External fuse 16 A
[Uc] control circuit voltage	28.8 V
Maximum line resistance	100 Ohm <6561.7 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	1125 Profibus 1247 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	48 LEDs
Mounting Support	Mounting plate
Depth	6.02 in (153 mm)
Height	6.0 in (151.5 mm)
Width	2.9 in (74 mm)
Product Weight	1.85 lb(US) (0.84 kg)
Environment	
IP degree of protection	IP20 conforming to IEC 60529
Ambient Air Temperature for Operation	14131 °F (-1055 °C)
Ambient Air Temperature for	-13 185 °F (-25 85 °C)

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Ambient Air Temperature for Operation	14131 °F (-1055 °C)	
Ambient Air Temperature for	-13185 °F (-2585 °C)	

## Ordering and shipping details

Category	US1SAF222477
Discount Schedule	SAF2
GTIN	3389119010290
Returnability	No
Country of origin	FR

## **Packing Units**

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Unit Type of Package 1	PCE
Nbr. of units in pkg.	1
Package 1 Height	3.74 in (9.500 cm)
Package 1 Width	7.09 in (18.000 cm)
Package 1 Length	10.28 in (26.100 cm)
Package weight(Lbs)	2.840 lb(US) (1.288 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	18.872 lb(US) (8.560 kg)

## **Contractual warranty**

Warranty 18 months



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)	541
Environmental Disclosure	Product Environmental Profile

#### **Use Better**

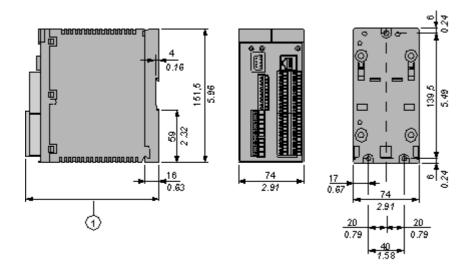
Packaging made with recycled cardboard	No
Packaging without single use plastic	No
EU RoHS Directive	Pro-active compliance (Product out of EU RoHS legal scope)
REACh Regulation	REACh Declaration
California proposition 65	WARNING: This product can expose you to chemicals including: Lead and lead compounds, which is known to the State of California to cause cancer and birth defects or other reproductive harm. For more information go to www.P65Warnings.ca.gov
PVC free	Yes

#### **Use Again**

○ Repack and remanufacture	
Circularity Profile	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**

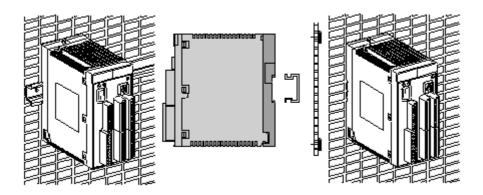
#### **Dimensions**



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



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

#### XPSMC32ZP

#### Connections and Schema

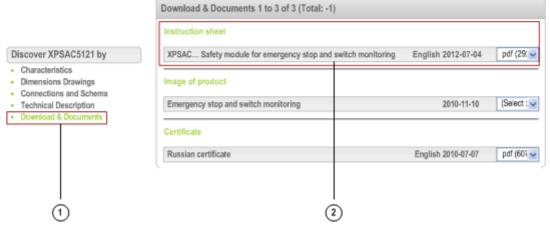
#### **Wiring Diagrams**

#### 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

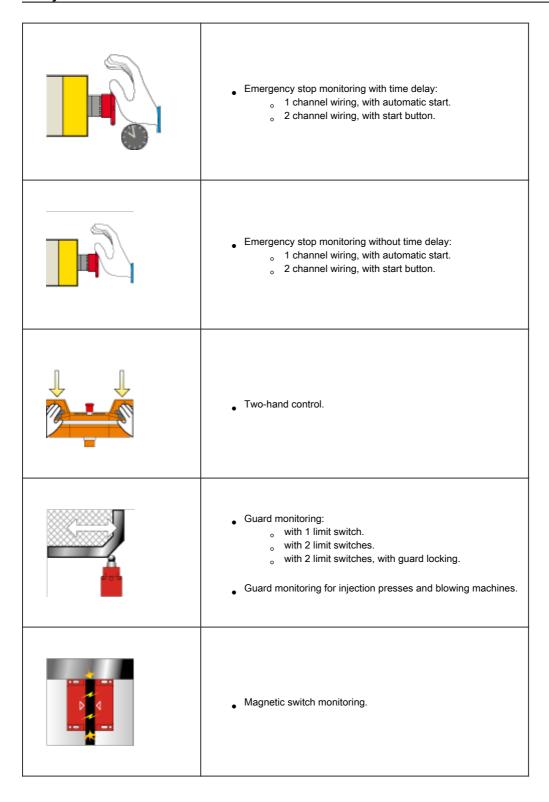


- 1 Click on Download & Documents.
- 2 Click on Instruction sheet.

#### XPSMC32ZP

#### **Technical Description**

#### **Safety Functions**



## Product data sheet XPSMC32ZP

	• Sensing mat monitoring.
	<ul> <li>Light curtains monitoring:         <ul> <li>Relay output type.</li> <li>Solid-state output type.</li> </ul> </li> <li>"Muting" function for light curtains.</li> </ul>
0	Zero speed detection.
	<ul> <li>Dynamic monitoring of hydraulic valves on linear presses.</li> </ul>
	• Safety time delays.
	<ul> <li>Monitoring safety stop at top dead centre on eccentric press.</li> <li>Hydraulic press.</li> <li>Eccentric press.</li> </ul>

### **Product data sheet**

## XPSMC32ZP



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

#### Other functions:

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