

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

XPSMC32ZC

Main

Range of product	Preventa Safety automation	
Product or component type	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 ISO 13849-1 SIL 3 maximum conforming to IEC 61508	
Type of start	Configurable	
Standards	IEC 60947-5-1 EN 574/ISO 13851 EN 1760-1/ISO 13856-1 IEC 61496-1 IEC 61508 EN 954-1/EN/ISO 13849-1 IEC 60204-1	
Product certifications	UL TÜV CSA	
[Us] rated supply voltage	24 V DC - 2020 %	
Number of inputs	32	
Communication port protocol	CANopen with 1 SUB-D 9-pin male port(s), serial link, transmission rate: 20 kbps, 50 kbps, 125 kbps, 250 kbps, 500 kbps, 800 kbps or 1 Mbps 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

Synchronication time between	Described and a sufficient for a short of
	Two-hand control category 3 conforming to EN 574/ISO 13851
	Light curtain monitoring category 4 conforming to IEC 61496
	Zero speed detection
	Shaft/chain breaking monitor
	Safety time delays
	Safety mat monitoring
	Position selector
	Muting function of light curtains
	to EN 574/ISO 13851
	Monitoring safety stop at top dead centre on eccentric press category 3 conforming
	Magnetic switch monitoring category 4 conforming to EN/IEC 61496
	Hydraulic press
	Guard monitoring with 1 or 2 limit switches
	Guard monitoring for injection presses and blowing machines
	Foot switch monitoring
	Enabling switch monitoring, 2 or 3 contacts
	Emergency stop monitoring, with or without time delay, 1 or 2-channel wiring
	Eccentric press
Function of module	Dynamic monitoring of hydraulic valves on linear presses

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 <2000 m
Output type	2 relays, 2 NO contacts (4 NO total) circuit(s) Solid state, 6 circuit(s), volt-free
Breaking capacity	180 VA holding AC-15 C300 relay output 1800 VA inrush AC-15 C300 relay output
Breaking capacity	2 A at 24 V for static output circuit 1.5 A at 24 V (DC-13) time constant: 50 ms for relay output
Output thermal current	4 A for both outputs simultaneously 6 A for 1 output and 2 A for the other for 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 for relay output
Minimum output voltage	17 V for relay output
Response time	Configurable : 20 ms or 30 ms with software XPSMCWIN
[Ui] rated insulation voltage	300 V (pollution degree 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	1127 for CANopen 1247 for Modbus
Parity	Even for Modbus No for Modbus Odd for 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	153 mm
Height	151.5 mm
Width	74 mm
Product weight	0.84 kg

Environment

IP degree of protection	IP20 conforming to IEC 60529	
Ambient air temperature for operation	-1055 °C	
Ambient air temperature for storage	-2585 °C	

Packing Units

Unit Type of Package 1	PCE
Number of Units in Package 1	1
Package 1 Height	9.400 cm
Package 1 Width	17.800 cm
Package 1 Length	25.800 cm
Package 1 Weight	1.285 kg
Unit Type of Package 2	S04
Number of Units in Package 2	6
Package 2 Height	30.000 cm
Package 2 Width	40.000 cm
Package 2 Length	60.000 cm
Package 2 Weight	8.305 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	
Total lifecycle Carbon footprint	540
Environmental Disclosure	Product Environmental Profile

Use Better

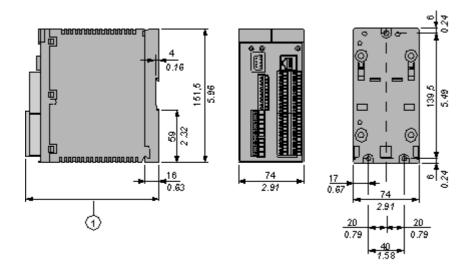
Packaging made with recycled cardboard	No
Packaging without single use plastic	No
EU RoHS Directive	Pro-active compliance (Product out of EU RoHS legal scope)
REACh Regulation	REACh Declaration
California proposition 65	WARNING: This product can expose you to chemicals including: Lead and lead compounds, 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	
End of life manual availability	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

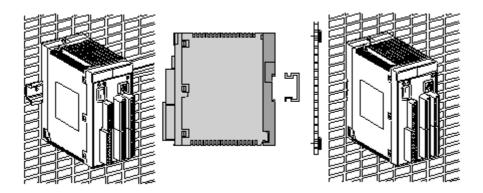
Dimensions



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.

XPSMC32ZC

Connections and Schema

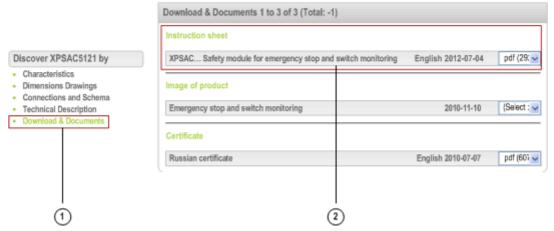
Wiring Diagrams

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.

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Technical Description

Safety Functions

 Emergency stop monitoring with time delay: 1 channel wiring, with automatic start. 2 channel wiring, with start button.
 Emergency stop monitoring without time delay: 1 channel wiring, with automatic start. 2 channel wiring, with start button.
Two-hand control.
Guard monitoring: with 1 limit switch. with 2 limit switches. with 2 limit switches, with guard locking. Guard monitoring for injection presses and blowing machines.
Magnetic switch monitoring.

Product data sheet

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

Product data sheet

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- Enabling switching monitoring:

 - 2 contact type.3 contact type.

Other functions:

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