Product data sheet

Specification





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

XPSMC16ZP

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 1760-1/ISO 13856-1 EN 574/ISO 13851 IEC 60947-5-1 IEC 61508 IEC 60204-1 EN 954-1/EN/ISO 13849-1 IEC 61496-1	
Product Certifications	UL CSA TÜV	
[Us] Rated Supply Voltage	24 V DC - 2020 %	
Number Of Inputs	16	
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

	Position selector Safety mat monitoring Safety time delays	
	Muting function of light curtains	
	Monitoring safety stop at top dead centre on eccentric press category 3 EN 574/ISO 13851	
	Hydraulic press Magnetic switch monitoring category 4 EN/IEC 61496	
	Foot switch monitoring Guard monitoring for injection presses and blowing machines Guard monitoring with 1 or 2 limit switches	
	Eccentric press Emergency stop monitoring, with or without time delay, 1 or 2-channel wiring Enabling switch monitoring, 2 or 3 contacts	

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	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	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)
Net Weight	1.81 lb(US) (0.82 kg)
Environment	
Ip Degree Of Protection	IP20 conforming to IEC 60529

Packing Units

Ambient Air Temperature For Storage

-13...185 °F (-25...85 °C)

Unit Type Of Package 1	PCE
Number Of Units In Package 1	1
Package 1 Height	3.54 in (9.000 cm)
Package 1 Width	7.09 in (18.000 cm)
Package 1 Length	10.24 in (26.000 cm)
Package 1 Weight	2.80 lb(US) (1.270 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	18.58 lb(US) (8.430 kg)

Contractual warranty

Warranty 18 months



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Transparency RoHS/REACh

Well-being performance

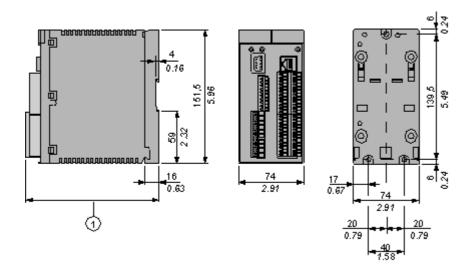
	Mercury Free	
⊘	Rohs Exemption Information	Yes
	Pvc Free	

Certifications & Standards

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
Environmental Disclosure	Product Environmental Profile
China Rohs Regulation	China RoHS declaration
Eu Rohs Directive	Pro-active compliance (Product out of EU RoHS legal scope)
Reach Regulation	REACh Declaration

Dimensions Drawings

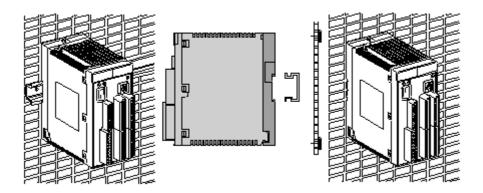
Dimensions



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.

XPSMC16ZP

Connections and Schema

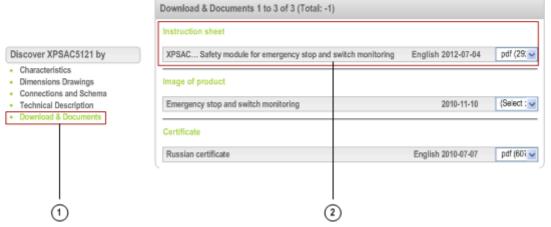
Wiring Diagrams

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.

XPSMC16ZP

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