XPSMC32ZP

safety controller XPS-MC - 24 V DC - 32 input - 48 LEDs signalling

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Commercial Status	Commercialised
Range of product	Preventa Safety automation
Product or component type	Configurable safety controller
Safety module name	XPSMC
Safety use category	SIL 3 maximum conforming to IEC 61508 PLE maximum conforming to EN/ISO 13849-1 Category 4 maximum conforming to EN 954-1/EN/ ISO 13849-1
Type of start	Configurable
Standards	EN 1760-1/ISO 13856-1 EN 574/ISO 13851 EN 954-1/EN/ISO 13849-1 EN/IEC 60204-1 EN/IEC 60947-5-1 EN/IEC 61496-1 IEC 61508
Product certifications	CSA TÜV UL
[Us] rated supply voltage	24 V DC - 2020 %
Number of inputs	32
Communication port protocol	Profibus with 1 SUB-D 9-pin female port(s), serial link, transmission rate: 12 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 SIL 3 conforming to IEC 61508 Can reach PL e/category 4 conforming to EN 954-1/ EN/ISO 13849-1

Complementary

Function of module	Two-hand control (category 3) conforming to EN 574/ISO 13851
	Light curtain monitoring (category 4) conforming to EN/IEC 61496
	Zero speed detection
	Shaft/Chain breaking monitor
	Safety time delays
	Safety mat monitoring
	Position selector
	Muting function of light curtains
	Monitoring safety stop at top dead centre on eccentric press
	Magnetic switch monitoring
	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
	Dynamic monitoring of hydraulic valves on linear presses
Synchronisation time between inputs	Depending on configuration selected
Power consumption	12 W
Input protection type	External fuse 16 A
[Uc] control circuit voltage	28.8 V
Line resistance	100 Ohm, cable length: <= 2000 m
Output type	Solid state, 6 circuit(s), volt-free
	2 relays, 2 NO contacts (4 NO total) circuit(s)

Breaking capacity	C300: inrush 1800 VA AC-15 for relay output C300: holding 180 VA AC-15 for relay output
Breaking capacity	1.5 A/24 V - L/R = 50 ms, DC-13 for relay output 2 A/24 V for static output circuit
Output thermal current	6 A for 1 output and 2 A for the other for relay output 4 A for both outputs simultaneously
[lth] conventional free air thermal current	<= 6.5 A for static output circuit <= 16 A for relay output
Associated fuse rating	6 A fast blow for relay output 4 A gL for relay output 16 A gL for power supply
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, 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	1247 for Modbus 1125 for Profibus
Parity	Odd for Modbus No for Modbus Even for Modbus
Data format	RTU (Remote Terminal Unit) mode 2 stop bits without parity 1 stop bit even or odd 1 start bit/8 data bits
Supported modbus function	03: information and errors 02: 32-bit input data/8-bit output data 01: 8-bit output data/32-bit input data
Local signalling	48 LEDs
Mounting support	Mounting plate
Depth	153 mm
Height	151.5 mm
Width	74 mm
Product weight	0.84 kg
Environment	
ID dograp of protection	IP20 conforming to EN/IEC 60520

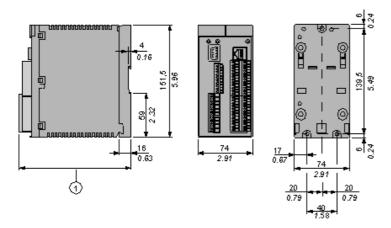
IP degree of protection	IP20 conforming to EN/IEC 60529
Ambient air temperature for operation	-1055 °C
Ambient air temperature for storage	-2585 °C

Contractual warranty

Contractual warranty	
Period	18 months

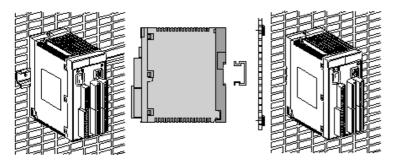


Dimensions



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)

Installation



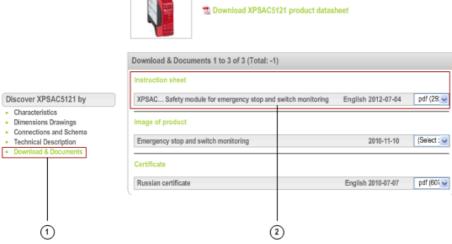
Metal adaptor for fixing on metal: DIN rail 35 mm/1.38 in.

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Wiring Diagrams

Refer to the Instruction Sheet

To download the instruction sheet, follow below procedure:



XPSAC5121

module XPSAC - Emergency stop - 24 V AC DC

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

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Safety Functions

	Emergency stop monitoring with time delay:
	 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.
	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.
Enabling switching monitoring: 2 contact type. 3 contact type.

Other functions:

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