

XPSMC16ZC

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

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 conforming to EN 954-1/EN/ISO 13849-1 PLE maximum conforming to EN/ISO 13849-1 SIL 3 maximum conforming to IEC 61508
Type of start	Configurable
Standards	EN 1760-1/ISO 13856-1 EN 574/ISO 13851 EN/IEC 61496-1 EN/IEC 60204-1 EN/IEC 60947-5-1 EN 954-1/EN/ISO 13849-1 IEC 61508
Product certifications	UL CSA TÜV
[Us] rated supply voltage	24 V DC - 20...20 %
Number of inputs	16
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

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 Monitoring safety stop at top dead centre on eccentric press 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) conforming to EN/IEC 61496 Two-hand control (category 3) conforming to EN 574/ISO 13851
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
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	C300: holding 180 VA AC-15 relay output C300: inrush 1800 VA AC-15 relay output
Breaking capacity	1.5 A/24 V - L/R = 50 ms, DC-13 relay output 2 A/24 V for static output circuit
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 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 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, 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	1...247 Modbus 1...127 CANopen
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)
Product weight	1.81 lb(US) (0.82 kg)

Environment

IP degree of protection	IP20 conforming to EN/IEC 60529
Ambient air temperature for operation	14...131 °F (-10...55 °C)
Ambient air temperature for storage	-13...185 °F (-25...85 °C)

Ordering and shipping details

Category	22477 - SAFETY MODULES (PREVENTA)
Discount Schedule	SAF2
GTIN	00785901661238
Nbr. of units in pkg.	1
Package weight(Lbs)	2.21
Returnability	N
Country of origin	FR

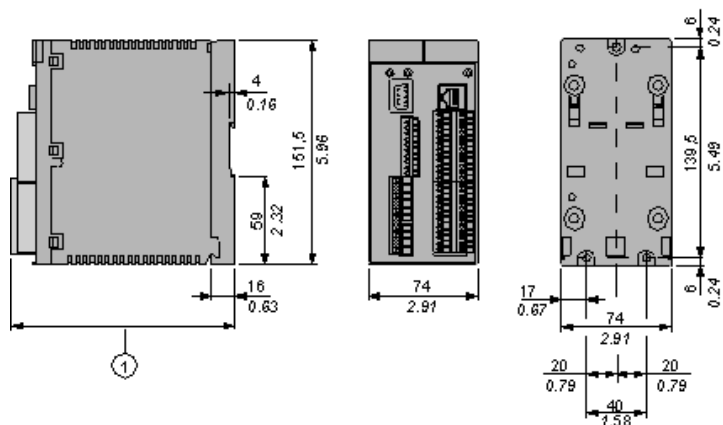
Offer Sustainability

California proposition 65	WARNING: This product can expose you to chemicals including:
- - - - - Substance 1	Lead and lead compounds, which is known to the State of California to cause cancer and birth defects or other reproductive harm.
- - - - - More information	For more information go to www.p65warnings.ca.gov

Contractual warranty

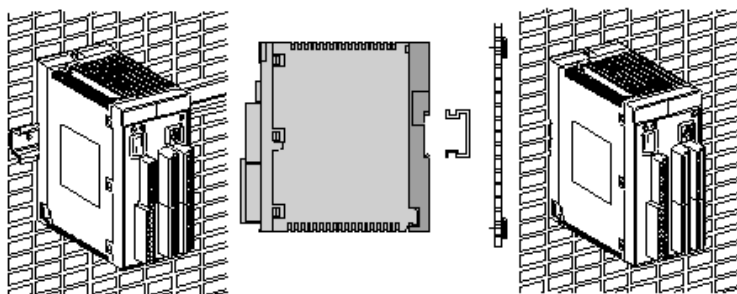
Warranty period	18 months
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Dimensions



- 1 When using XPSCMCT5• connectors this dimension is 153 mm (6.02 in)
When using XPSCMCTC• connectors this dimension is 151,5 mm (5.96 in)

Installation

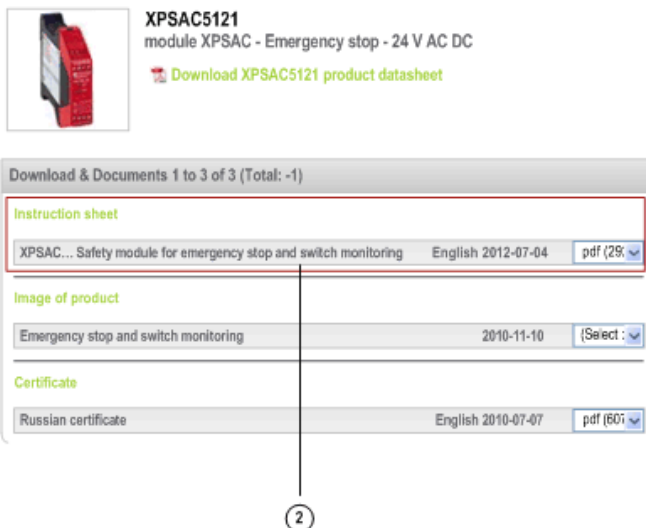


Metal adaptor for fixing on metal: DIN rail 35 mm/1.38 in.

Wiring Diagrams

Refer to the Instruction Sheet

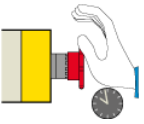
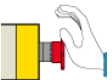
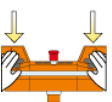
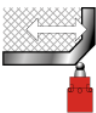
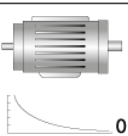
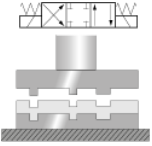
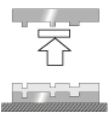
To download the instruction sheet, follow below procedure:



The screenshot shows the product page for XPSAC5121. At the top, there is a product image and the text "XPSAC5121 module XPSAC - Emergency stop - 24 V AC DC". Below this is a link to "Download XPSAC5121 product datasheet". A sidebar on the left lists navigation options: "Discover XPSAC5121 by", "Characteristics", "Dimensions Drawings", "Connections and Schema", "Technical Description", and "Download & Documents" (which is highlighted with a red box and a line pointing to step 1). The main content area is titled "Download & Documents 1 to 3 of 3 (Total: -1)". It contains three sections: "Instruction sheet" (highlighted with a red box and a line pointing to step 2), "Image of product", and "Certificate". The "Instruction sheet" section shows a table with one entry: "XPSAC... Safety module for emergency stop and switch monitoring" in English, dated 2012-07-04, with a PDF icon and a download size of 29K.

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

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.
	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

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