

# XPSMC16ZC

safety controller XPS-MC - 24 V DC - 16 inputs  
- 32 LED signalling



## Main

Range of product	Preventa Safety automation
Product or component type	Configurable safety controller
Safety module name	XPS-MC
Safety use category	PLE maximum conforming to EN/ISO 13849-1 SIL 3 maximum conforming to IEC 61508 Category 4 maximum conforming to EN 954-1/EN/ISO 13849-1
Type of start	Configurable
Standards	EN/IEC 60204-1 EN/IEC 60947-5-1 EN/IEC 61496-1 EN 1760-1/ISO 13856-1 EN 574/ISO 13851 EN 954-1/EN/ISO 13849-1 IEC 61508
Product certifications	CSA TÜV UL
[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

## 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 Light curtain monitoring (category 4) conforming to EN/IEC 61496 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 Two-hand control (category 3) conforming to EN 574/ISO 13851 Zero speed detection
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	2 relays , 2 NO contacts (4 NO total) circuit(s) Solid state , 6 circuit(s), volt-free
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	4 A for both outputs simultaneously 6 A for 1 output and 2 A for the other for relay output
[I <sub>th</sub> ] conventional free air thermal current	≤ 16 A for relay output ≤ 6.5 A for static output circuit
Associated fuse rating	4 A gL for relay output 6 A fast blow 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
[U <sub>i</sub> ] rated insulation voltage	300 V , degree of pollution 2 conforming to IEC 60647-5-1, DIN VDE 0110 part 1
[U <sub>imp</sub> ] 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...127 for CANopen 1...247 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	32 LEDs
Mounting support	Mounting plate
Depth	153 mm
Height	151.5 mm
Width	74 mm
Product weight	0.82 kg

## Environment

IP degree of protection	IP20 conforming to EN/IEC 60529
Ambient air temperature for operation	-10...55 °C
Ambient air temperature for storage	-25...85 °C
RoHS EUR conformity date	4Q2009
RoHS EUR status	Will be compliant