

XPSMC32ZC

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



Main

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| 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 | 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 |

Complementary

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| 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 |

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| Output thermal current | 4 A for both outputs simultaneously 6 A for 1 output and 2 A for the other for relay output |
| [I _{th}] 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 _i] rated insulation voltage | 300 V , degree of pollution 2 conforming to IEC 60647-5-1, DIN VDE 0110 part 1 |
| [U _{imp}] 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 | 48 LEDs |
| Mounting support | Mounting plate |
| Depth | 153 mm |
| Height | 151.5 mm |
| Width | 74 mm |
| Product weight | 0.84 kg |

Environment

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| 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 |