



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 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 - 20...20 % |
| Number of inputs | 16 |
| Communication port protocol | 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 |

The information provided in this documentation contains general descriptions and/or technical characteristics of the products contained herein. This documentation is not intended as a substitute for and is not to be used for determining suitability or reliability of these products for specific user applications. It is the duty of any such user or integrator to perform the appropriate and complete risk analysis, evaluation and testing of the products with respect to the relevant specific application or use thereof. Neither Schneider Electric Industries SAS nor any of its affiliates or subsidiaries shall be responsible or liable for misuse of the information contained herein.

| | |
|---|--|
| [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 |
| 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 | 30 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) |

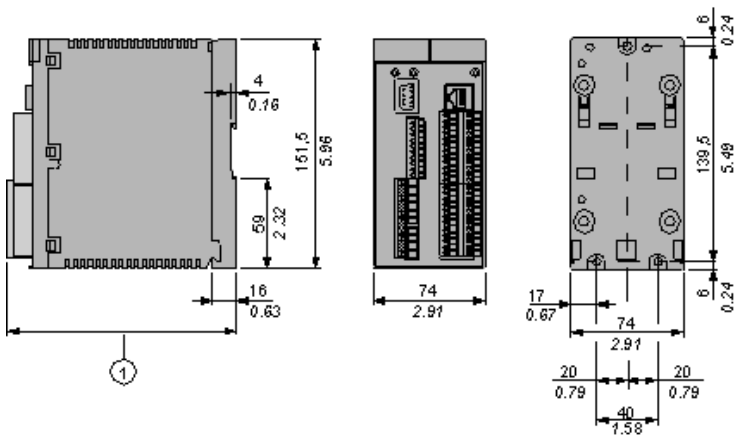
Offer Sustainability

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

Contractual warranty

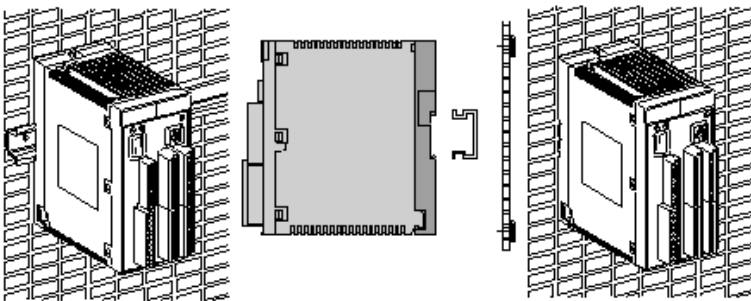
| | |
|-----------------|-----------|
| Warranty period | 18 months |
|-----------------|-----------|

Dimensions



- 1 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.

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](#)

Discover XPSAC5121 by

- Characteristics
- Dimensions Drawings
- Connections and Schema
- Technical Description
- Download & Documents

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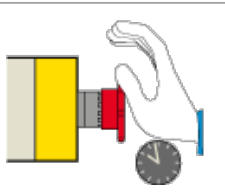
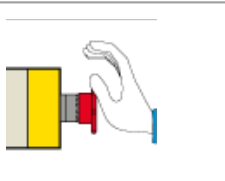
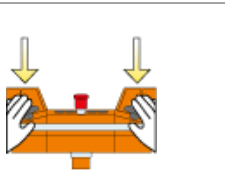
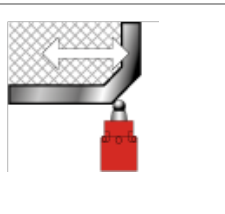
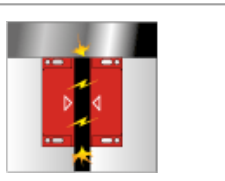

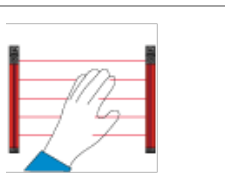
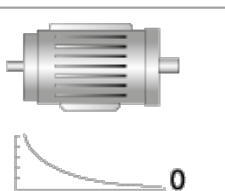
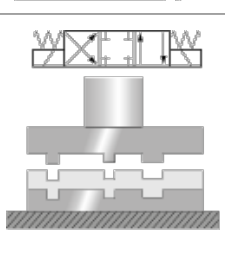
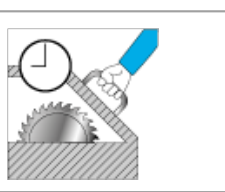
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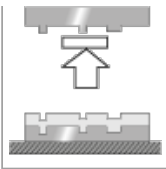

| Instruction sheet | | |
|---|--------------------|------------|
| XPSAC... Safety module for emergency stop and switch monitoring | English 2012-07-04 | pdf (29) |
| Image of product | | |
| Emergency stop and switch monitoring | 2010-11-10 | (Select :) |
| Certificate | | |
| Russian certificate | English 2010-07-07 | pdf (60) |

②

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

Safety Functions

| | |
|---|---|
|  | <ul style="list-style-type: none"> Emergency stop monitoring with time delay: <ul style="list-style-type: none"> 1 channel wiring, with automatic start. 2 channel wiring, with start button. |
|  | <ul style="list-style-type: none"> Emergency stop monitoring without time delay: <ul style="list-style-type: none"> 1 channel wiring, with automatic start. 2 channel wiring, with start button. |
|  | <ul style="list-style-type: none"> Two-hand control. |
|  | <ul style="list-style-type: none"> Guard monitoring: <ul style="list-style-type: none"> with 1 limit switch. with 2 limit switches. with 2 limit switches, with guard locking. Guard monitoring for injection presses and blowing machines. |
|  | <ul style="list-style-type: none"> Magnetic switch monitoring. |
|  | <ul style="list-style-type: none"> Sensing mat monitoring. |
|  | <ul style="list-style-type: none"> Light curtains monitoring: <ul style="list-style-type: none"> Relay output type. Solid-state output type. "Muting" function for light curtains. |
|  | <ul style="list-style-type: none"> Zero speed detection. |
|  | <ul style="list-style-type: none"> Dynamic monitoring of hydraulic valves on linear presses. |
|  | <ul style="list-style-type: none"> Safety time delays. |

| | |
|---|--|
|  | <ul style="list-style-type: none"> Monitoring safety stop at top dead centre on eccentric press. Hydraulic press. Eccentric press. |
|  | <ul style="list-style-type: none"> Enabling switching monitoring: <ul style="list-style-type: none"> 2 contact type. 3 contact type. |

Other functions:

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

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JONHON

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