

Product datasheet

Specifications



safety controller, Harmony XPS
MC, 24V DC, 32 inputs, 48 LEDs
signalling, Profibus

XPSMC32ZP

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 ISO 13849-1 SIL 3 maximum conforming to IEC 61508 |
| Type Of Start | Configurable |
| Standards | EN 954-1/EN/ISO 13849-1 IEC 61496-1 IEC 61508 IEC 60204-1 EN 1760-1/ISO 13856-1 EN 574/ISO 13851 IEC 60947-5-1 |
| Product Certifications | CSA UL TÜV |
| [Us] Rated Supply Voltage | 24 V DC - 20...20 % |
| Number Of Inputs | 32 |
| Communication Port Protocol | Modbus with 1 RJ45 port(s), serial link, transmission rate: 1200 bps, 2400 bps, 4800 bps, 9600 bps or 19200 bps Profibus with 1 SUB-D 9-pin female port(s), serial link, transmission rate: 12 Mbps |
| 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 category 4 conforming to EN/IEC 61496 Monitoring safety stop at top dead centre on eccentric press category 3 conforming to EN 574/ISO 13851 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 IEC 61496 Two-hand control category 3 conforming to EN 574/ISO 13851 |
| Synchronisation Time Between Inputs | Depending on configuration selected |

Disclaimer: 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

| | |
|---|--|
| Power Consumption In W | 12 W |
| Input Protection Type | External fuse 16 A |
| [Uc] Control Circuit Voltage | 28.8 V |
| Maximum 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 | 180 VA holding AC-15 C300 relay output 1800 VA inrush AC-15 C300 relay output |
| Breaking Capacity | 2 A at 24 V for static output circuit 1.5 A at 24 V (DC-13) time constant: 50 ms for relay output |
| Output Thermal Current | 4 A for both outputs simultaneously 6 A for 1 output and 2 A for the other for 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 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 (pollution degree 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...125 for Profibus 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 |
| Net Weight | 0.84 kg |

Environment

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|---------------------------------------|------------------------------|
| Ip Degree Of Protection | IP20 conforming to IEC 60529 |
| Ambient Air Temperature For Operation | -10...55 °C |
| Ambient Air Temperature For Storage | -25...85 °C |

Packing Units

| | |
|------------------------------|-----------|
| Unit Type Of Package 1 | PCE |
| Number Of Units In Package 1 | 1 |
| Package 1 Height | 9.500 cm |
| Package 1 Width | 18.000 cm |
| Package 1 Length | 26.000 cm |
| Package 1 Weight | 1.288 kg |
| Unit Type Of Package 2 | S04 |
| Number Of Units In Package 2 | 6 |
| Package 2 Height | 30.000 cm |
| Package 2 Width | 40.000 cm |
| Package 2 Length | 60.000 cm |
| Package 2 Weight | 8.560 kg |

Contractual warranty

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

Sustainability



Green Premium™ label is Schneider Electric’s commitment to delivering products with best-in-class environmental performance. Green Premium promises compliance with the latest regulations, transparency on environmental impacts, as well as circular and low-CO₂ products.

Guide to assessing product sustainability is a white paper that clarifies global eco-label standards and how to interpret environmental declarations.

[Learn more about Green Premium >](#)

[Guide to assess a product’s sustainability >](#)



Transparency RoHS/REACH

Well-being performance

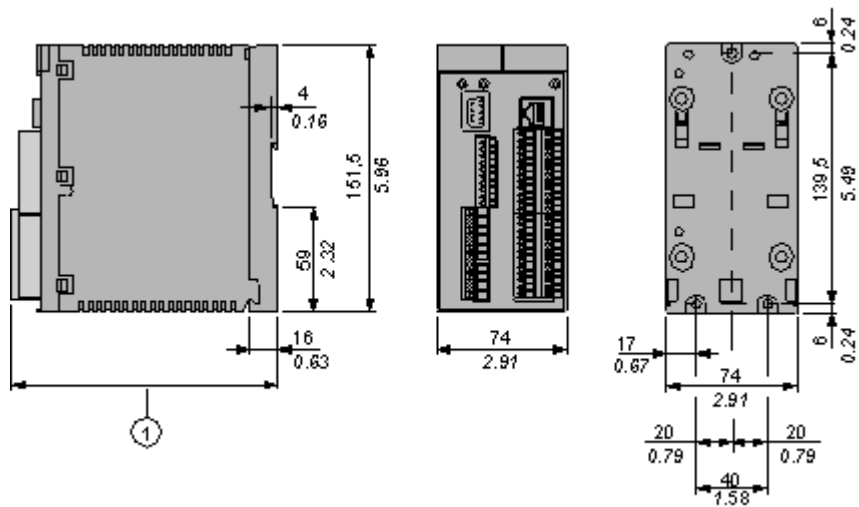
| | | |
|---|----------------------------|-----|
| ✓ | Mercury Free | |
| ✓ | Rohs Exemption Information | Yes |
| ✓ | Pvc Free | |

Certifications & Standards

| | |
|--------------------------|---|
| Reach Regulation | REACH Declaration |
| Eu Rohs Directive | Pro-active compliance (Product out of EU RoHS legal scope) |
| China Rohs Regulation | China RoHS declaration |
| Environmental Disclosure | Product Environmental Profile |
| Weee | The product must be disposed on European Union markets following specific waste collection and never end up in rubbish bins |
| Circularity Profile | End of Life Information |

Dimensions Drawings

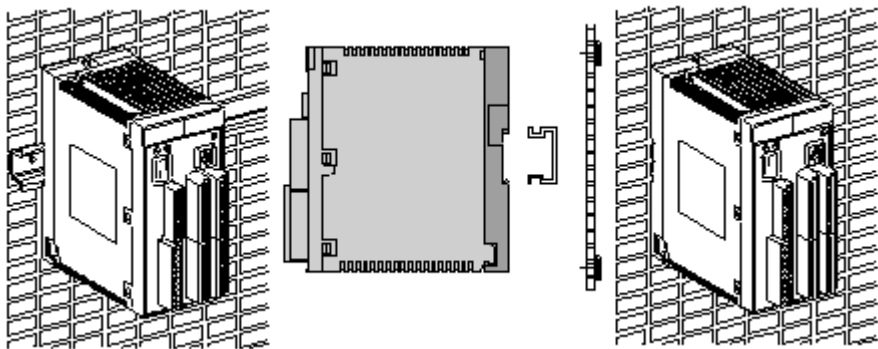
Dimensions



- 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)

Mounting and Clearance

Installation



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

Connections and Schema


Wiring Diagrams

Refer to the Instruction Sheet

To download the instruction sheet, follow below procedure:

Discover XPSAC5121 by

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



XPSAC5121
module XPSAC - Emergency stop - 24 V AC DC
[Download XPSAC5121 product datasheet](#)

Download & Documents 1 to 3 of 3 (Total: -1)

Instruction sheet

XPSAC... Safety module for emergency stop and switch monitoringEnglish 2012-07-04pdf (29k)

Image of product

Emergency stop and switch monitoring2010-11-10(Select :)

Certificate

Russian certificateEnglish 2010-07-07pdf (60k)

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1 Click on **Download & Documents**.

2 Click on **Instruction sheet**.

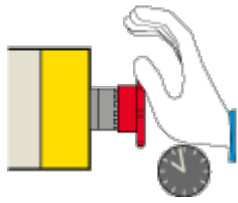
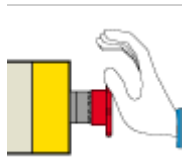
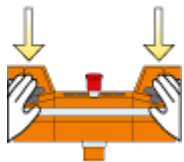
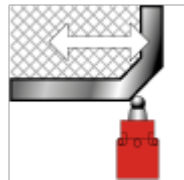
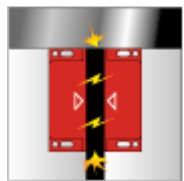
9 May 2024



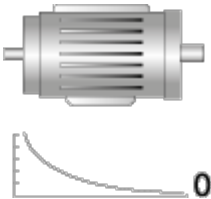
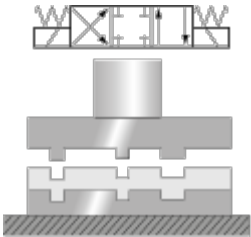
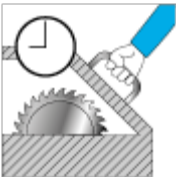
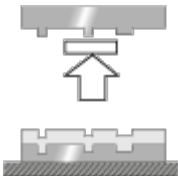
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Technical Description

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. |



- Enabling switching monitoring:
 - 2 contact type.
 - 3 contact type.

Other functions:

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