

Product data sheet

Specifications



safety controller, Harmony XPS MC, 24V DC, 32 inputs, 46 LEDs signalling

XPSMC32Z

Product availability: Non-Stock - Not normally stocked in distribution facility

Price*: 2,412.00 USD

Main

Range Of Product	Preventa Safety automation
Product Or Component Type	Configurable safety controller
Safety Module Name	XPSMC
Safety Use Category	Category 4 maximum EN 954-1/EN/ISO 13849-1 PLE maximum ISO 13849-1 SIL 3 maximum IEC 61508
Type Of Start	Configurable
Standards	EN 954-1/EN/ISO 13849-1 IEC 61496-1 IEC 60947-5-1 IEC 61508 EN 1760-1/ISO 13856-1 EN 574/ISO 13851 IEC 60204-1
Product Certifications	CSA UL TÜV
[Us] Rated Supply Voltage	24 V DC - 20...20 %
Number Of Inputs	32
Communication Port Protocol	Modbus 1 RJ45, serial link 1200 bps, 2400 bps, 4800 bps, 9600 bps or 19200 bps
Safety Level	Can reach PL e/category 4 EN 954-1/EN/ISO 13849-1 Can reach SIL 3 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 EN/IEC 61496 Monitoring safety stop at top dead centre on eccentric press category 3 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 IEC 61496 Two-hand control category 3 EN 574/ISO 13851
Synchronisation Time Between Inputs	Depending on configuration selected

Price is "List Price" and may be subject to a trade discount – check with your local distributor or retailer for actual price.

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 <6561.68 ft (2000 m)
Output Type	2 relays, 2 NO contacts (4 NO total) Solid state, 6, volt-free
Breaking Capacity	180 VA holding AC-15 C300 relay output 1800 VA inrush AC-15 C300 relay output
Breaking Capacity	2 A 24 V static output circuit 1.5 A 24 V DC-13)50 ms relay output
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 relay output 6.5 A static output circuit
Associated Fuse Rating	16 A gL power supply 4 A gL relay output 6 A fast blow 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 2)IEC 60647-5-1, DIN VDE 0110 part 1
[Uimp] Rated Impulse Withstand Voltage	4 kV III 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	46 LEDs
Mounting Support	Mounting plate
Depth	6.02 in (153 mm)
Height	5.96 in (151.5 mm)
Width	2.91 in (74 mm)
Net Weight	1.85 lb(US) (0.84 kg)

Environment

Ip Degree Of Protection	IP20 conforming to 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	US1SAF222477
Discount Schedule	SAF2
Gtin	3389119010276
Returnability	Yes
Country Of Origin	US

Packing Units

Unit Type Of Package 1	PCE
Number Of Units In Package 1	1
Package 1 Height	3.66 in (9.300 cm)
Package 1 Width	7.09 in (18.000 cm)
Package 1 Length	10.24 in (26.000 cm)
Package 1 Weight	2.64 lb(US) (1.199 kg)
Unit Type Of Package 2	S04
Number Of Units In Package 2	6
Package 2 Height	11.81 in (30.000 cm)
Package 2 Width	15.75 in (40.000 cm)
Package 2 Length	23.62 in (60.000 cm)
Package 2 Weight	17.71 lb(US) (8.031 kg)

Contractual warranty

Warranty	18 months
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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](#)

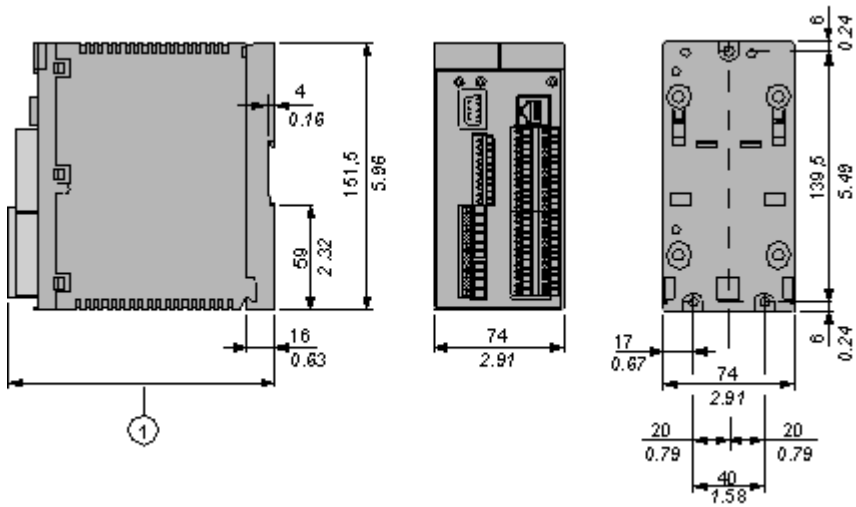
Weee The product must be disposed on European Union markets following specific waste collection and never end up in rubbish bins.

Circularity Profile [End of Life Information](#)

California Proposition 65 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. For more information go to www.P65Warnings.ca.gov

Dimensions Drawings

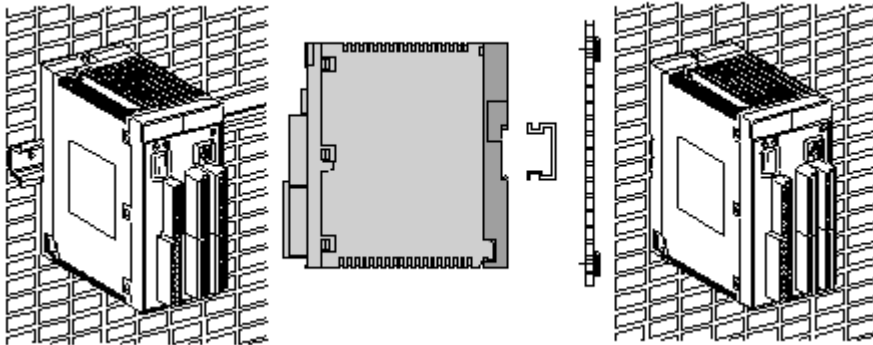
Dimensions



- 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:



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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1 Click on **Download & Documents**.

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

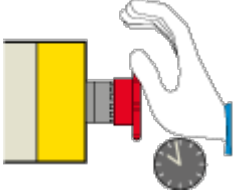
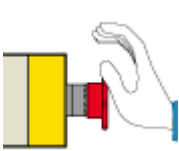
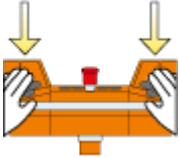
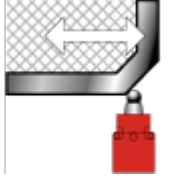

Instruction sheet		
XPSAC... Safety module for emergency stop and switch monitoring	English 2012-07-04	pdf (29)
Image of product		
Emergency stop and switch monitoring	2010-11-10	{Select :}
Certificate		
Russian certificate	English 2010-07-07	pdf (60)



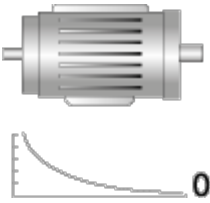
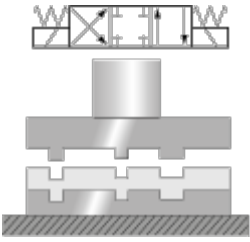
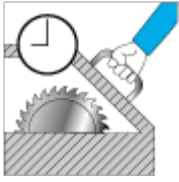
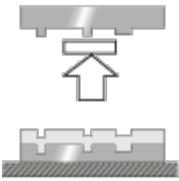
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2 Click on **Instruction sheet**.

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.

 <p>A diagram showing a person's foot stepping on a black mat with white circular sensors.</p>	<ul style="list-style-type: none"> • Sensing mat monitoring.
 <p>A diagram showing a hand passing through a set of red horizontal light curtains between two vertical sensors.</p>	<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.
 <p>A diagram of an electric motor with a speed-torque graph below it showing the speed dropping to zero.</p>	<ul style="list-style-type: none"> • Zero speed detection.
 <p>A technical diagram of a hydraulic valve assembly with a piston and cylinder, showing internal components and flow directions.</p>	<ul style="list-style-type: none"> • Dynamic monitoring of hydraulic valves on linear presses.
 <p>A diagram showing a hand operating a lever with a circular saw blade, and a clock icon indicating a time delay.</p>	<ul style="list-style-type: none"> • Safety time delays.
 <p>A diagram of a press mechanism showing the top die and bottom die with an arrow pointing upwards, indicating the top dead centre position.</p>	<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.
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Other functions:

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