

Product data sheet

Specifications



safety controller XPS-MC - 24 V DC - 32 input - 48 LEDs signalling

XPSMC32ZPPACK

⚠ Discontinued on: Oct 11, 2021

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

Main

Range of Product	Preventa Safety automation
Product or Component Type	Kit 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 574/ISO 13851 IEC 60204-1 IEC 61508 EN 954-1/EN/ISO 13849-1 IEC 60947-5-1 EN 1760-1/ISO 13856-1 IEC 61496-1
Product Certifications	TÜV UL CSA
[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 Profibus 1 SUB-D 9-pin female, serial link 12 Mbps
Safety level	Can reach PL e/category 4 EN 954-1/EN/ISO 13849-1 Can reach SIL 3 IEC 61508

Complementary

Kit composition	Connection cable Set of cage clamp terminals Printed packaging label 80 x 50 mm VDE slot screwdriver 2.5 x 75 mm Packaging small model for software configuration Set of screw terminals Configuration software USB/RS485 converter Ethernet cable 2m Profibus connectors Safety controller
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Price is "List Price" and may be subject to a trade discount – check with your local distributor or retailer for actual price.

Function of module	<p>Dynamic monitoring of hydraulic valves on linear presses</p> <p>Eccentric press</p> <p>Emergency stop monitoring, with or without time delay, 1 or 2-channel wiring</p> <p>Enabling switch monitoring, 2 or 3 contacts</p> <p>Foot switch monitoring</p> <p>Guard monitoring for injection presses and blowing machines</p> <p>Guard monitoring with 1 or 2 limit switches</p> <p>Hydraulic press</p> <p>Magnetic switch monitoring category 4 EN/IEC 61496</p> <p>Monitoring safety stop at top dead centre on eccentric press category 3 EN 574/ISO 13851</p> <p>Muting function of light curtains</p> <p>Position selector</p> <p>Safety mat monitoring</p> <p>Safety time delays</p> <p>Shaft/chain breaking monitor</p> <p>Zero speed detection</p> <p>Light curtain monitoring category 4 IEC 61496</p> <p>Two-hand control category 3 EN 574/ISO 13851</p>
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
Maximum line resistance	100 Ohm <6561.7 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...125 Profibus 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	48 LEDs
Mounting Support	Mounting plate
Depth	6.02 in (153 mm)
Height	6.0 in (151.5 mm)
Width	2.9 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	3389119018289
Returnability	No

Packing Units

Unit Type of Package 1	PCE
Nbr. of units in pkg.	1
Package 1 Height	9.6 in (24.5 cm)
Package 1 Width	9.6 in (24.5 cm)
Package 1 Length	10.8 in (27.5 cm)
Package weight(Lbs)	5.589 lb(US) (2.535 kg)

Contractual warranty

Warranty (in months)	18
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Environmental Data

Schneider Electric aims to achieve Net Zero status by 2050 through supply chain partnerships, lower impact materials, and circularity via our ongoing “Use Better, Use Longer, Use Again” campaign to extend product lifetimes and recyclability.

[Environmental Data explained >](#)

[How we assess product sustainability >](#)

Use Longer



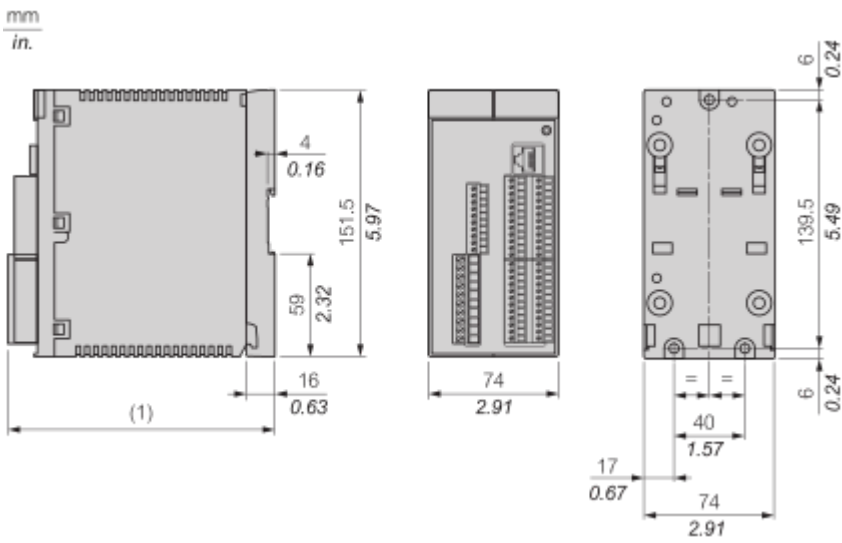
Lifetime extension

Repair

No

Dimensions Drawings

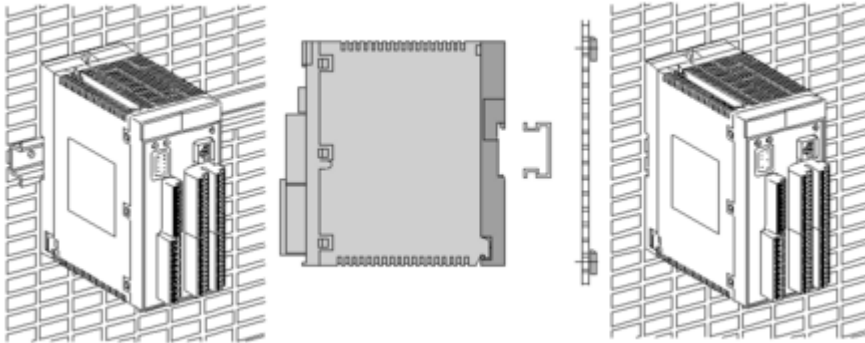
Dimensions



(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

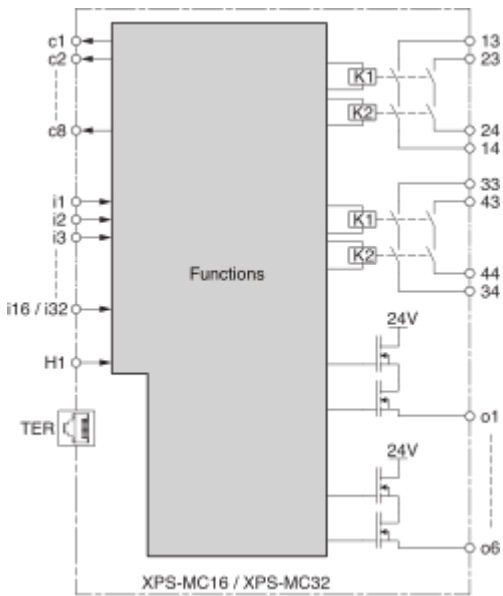
Installation



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

Connections and Schema

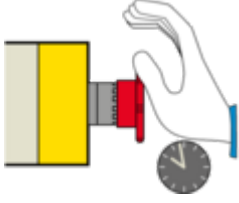
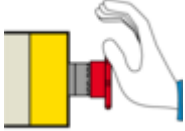
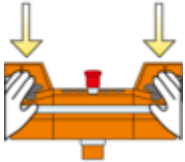
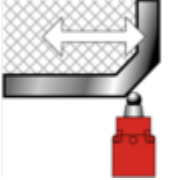

Function Diagram



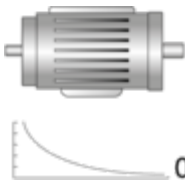
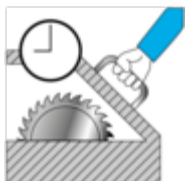



Note: Refer to the instruction sheet available in the documents section for a detailed connection diagram.

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.
	<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">• Safety time delays.
	<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
- Position selector