

safety controller, Harmony XPS MC, 24V DC, 16 inputs, 30 LEDs signalling

XPSMC16Z

Product availability: Stock - Normally stocked in distribution facility

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 574/ISO 13851	
	EN 1760-1/ISO 13856-1	
	IEC 61496-1	
	IEC 60204-1	
	IEC 61508	
	IEC 60947-5-1	
	EN 954-1/EN/ISO 13849-1	
Product Certifications	TÜV	
	UL	
	CSA	
[Us] Rated Supply Voltage	24 V DC - 2020 %	
Number of inputs	16	
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
	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
Power Consumption in W	12 W

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

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	
[lth] 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	1247 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	6.0 in (151.5 mm)	
Width	2.9 in (74 mm)	
Net Weight	1.81 lb(US) (0.82 kg)	

Environment

IP degree of protection	IP20 conforming to IEC 60529
Ambient Air Temperature for Operation	14131 °F (-1055 °C)
Ambient Air Temperature for Storage	-13185 °F (-2585 °C)

Ordering and shipping details

Category US1SAF222477

Discount Schedule	SAF2	
GTIN	3389119010245	
Returnability	Yes	
Country of origin	FR	

Packing Units

Unit Type of Package 1	PCE
Number of Units in Package 1	1
Package 1 Height	3.78 in (9.600 cm)
Package 1 Width	7.09 in (18.000 cm)
Package 1 Length	10.24 in (26.000 cm)
Package 1 Weight	2.612 lb(US) (1.185 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	17.527 lb(US) (7.950 kg)

Contractual warranty

Warranty 18 months



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 >

∇ Environmental footprint	
Carbon footprint (kg CO2 eq, Total Life cycle)	539
Environmental Disclosure	Product Environmental Profile

Use Better

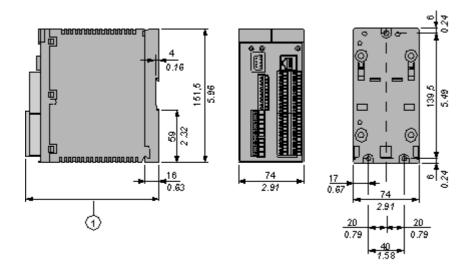
Packaging made with recycled cardboard	No
Packaging without single use plastic	No
EU RoHS Directive	Pro-active compliance (Product out of EU RoHS legal scope)
REACh Regulation	REACh Declaration
California proposition 65	WARNING: This product can expose you to chemicals including: Lead and lead compounds, 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
PVC free	Yes

Use Again

○ Repack and remanufacture	
Circularity Profile	End of Life Information
Take-back	No
WEEE	The product must be disposed on European Union markets following specific waste collection and never end up in rubbish bins.

Dimensions Drawings

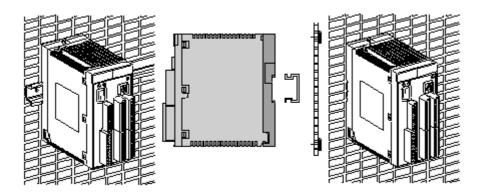
Dimensions



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.

XPSMC16Z

Connections and Schema

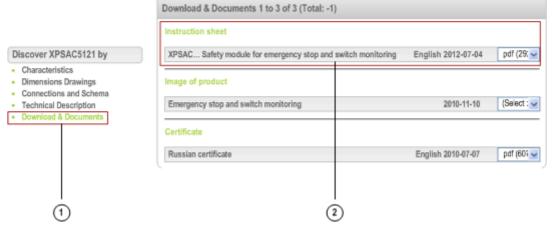
Wiring Diagrams

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

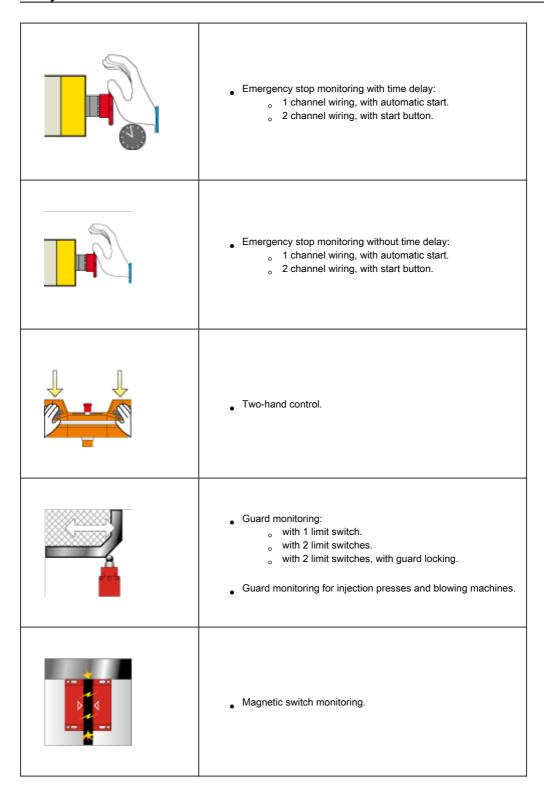


- 1 Click on Download & Documents.
- 2 Click on Instruction sheet.

XPSMC16Z

Technical Description

Safety Functions



Product data sheet

XPSMC16Z

• Sensing mat monitoring.
 Light curtains monitoring: Relay output type. Solid-state output type. "Muting" function for light curtains.
Zero speed detection.
Dynamic monitoring of hydraulic valves on linear presses.
• Safety time delays.
Monitoring safety stop at top dead centre on eccentric press. Hydraulic press. Eccentric press.

Product data sheet

XPSMC16Z



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

Other functions:

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

Image of product / Alternate images

Alternative







