



# safety controller XPS-MC - 24 V DC - 16 input - 30 LEDs signalling

Local distributor code:

407169751 XPSMC16ZPACK

! Discontinued on: 6 Jul 2021

EAN Code: 3389119018234

(!) Discontinued

#### 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 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 954-1/EN/ISO 13849-1 EN/IEC 60947-5-1 EN 574/ISO 13851 IEC 61508 EN/IEC 61496-1 EN/IEC 60204-1	
Product Certifications	CSA TÜV UL	
[Us] Rated Supply Voltage	24 V DC - 2020 %	
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

Kit Composition	Set of cage clamp terminals
	Set of screw terminals
	Ethernet cable 2m
	Configuration software
	Connection cable
	VDE slot screwdriver 2.5 x 75 mm
	Safety controller
	Packaging small model for software configuration
	Printed nackaging label 80 x 50 mm

USB/RS485 converter

Life Is On Schneider 25 Apr 2024

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
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
and a supplier of the supplier	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	16 A for relay output
Thermal Current	6.5 A for static output circuit
Associated Fuse Rating	4C A of for normalist
Associated Fuse Nating	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
Billion 1 Date 21 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 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	1247 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 Madhus Eurotian	04. 9 hit output data/29 hit input Jata
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	153 mm
Height	151.5 mm
Width	74 mm
Net Weight	0.82 kg

# **Environment**

Ip Degree Of Protection	IP20 conforming to EN/IEC 60529	
Ambient Air Temperature For Operation	-1055 °C	
Ambient Air Temperature For Storage	-2585 °C	

# **Packing Units**

Unit Type Of Package 1	PCE
Number Of Units In Package 1	1
Package 1 Height	24.5 cm
Package 1 Width	24.5 cm
Package 1 Length	27 cm
Package 1 Weight	2.305 kg

# **Contractual warranty**

25 Apr 2024

Warranty 18 months



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Transparency RoHS/REACh

## Well-being performance



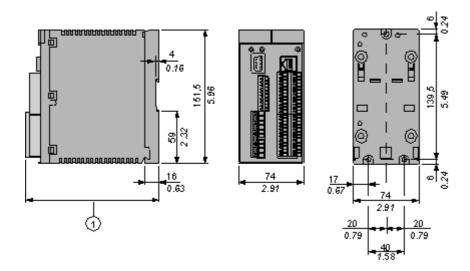
#### **Certifications & Standards**

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

## XPSMC16ZPACK

**Dimensions Drawings** 

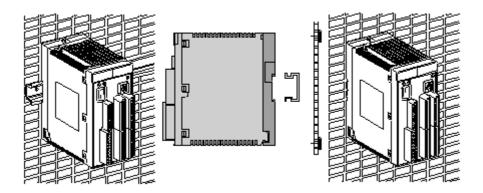
#### **Dimensions**



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.

#### XPSMC16ZPACK

#### Connections and Schema

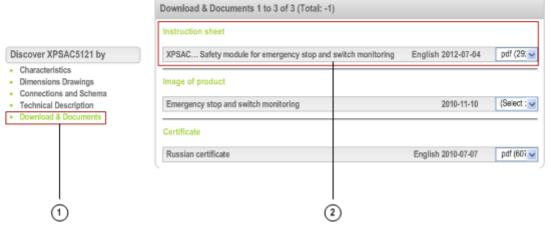
#### **Wiring Diagrams**

#### 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.

# XPSMC16ZPACK

# **Technical Description**

## **Safety Functions**

<ul> <li>Emergency stop monitoring with time delay:         <ul> <li>1 channel wiring, with automatic start.</li> <li>2 channel wiring, with start button.</li> </ul> </li> </ul>
<ul> <li>Emergency stop monitoring without time delay:         <ul> <li>1 channel wiring, with automatic start.</li> <li>2 channel wiring, with start button.</li> </ul> </li> </ul>
• Two-hand control.
Guard monitoring:  with 1 limit switch. with 2 limit switches. with 2 limit switches, with guard locking.  Guard monitoring for injection presses and blowing machines.
• Magnetic switch monitoring.

# XPSMC16ZPACK

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

# XPSMC16ZPACK



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

#### Other functions:

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