



# Speed monitoring 2 Sin/Cos encoder expansion module with spring term

XPSMCMEN0200SCG

## Main

Range of product	Preventa Safety automation
Product or component type	Safe speed monitoring module
Device short name	XPSMCM
Electrical connection	Spring terminal
[Us] rated supply voltage	24 V - 2020 % DC
Discrete input voltage	24 V DC
Function of module	Speed monitoring

Power consumption in W  3 W  Power dissipation in W  3 W  Integrated connection type  Backplane expansion bus  Safety level  Can reach PL = e conforming to EN/ISO 13849-1 Type 4 conforming to EN/ISO 13849-1 SILCL 3 conforming to EN/IEC 61496-1 SILCL 3 conforming to IEC 62061  Quality labels  CE  Number of terminal blocks  4  Local signalling  1 LED green with PWR marking for power ON 1 LED green with EIN marking for rRUN (status) 1 LED red with E IN marking for rRUN (status) 1 LED red with E IN marking for internal error 2 LEDs orange with ADN marking for prower on the province of th	Complementary	
Integrated connection type  Backplane expansion bus  Safety level  Can reach category 4 conforming to EN/ISO 13849-1 Type 4 conforming to EN/ISO 13849-1 Type 4 conforming to EN/ISO 13849-1 SILCL 3 conforming to IEC 62061  Quality labels  CE  Number of terminal blocks  4  Local signalling  1 LED green with PWR marking for power ON 1 LED green with RUN marking for RUN (status) 1 LED red with E IN marking for rexternal error 1 LED red with E IN marking for rexternal error 2 LEDs orange with ADDR marking for proximity sensors connection status 2 LEDs yellow with PROX marking for proximity sensors connection status 2 LEDs yellow with EN marking for proximity sensors connection status 2 LEDs yellow with ENC marking for encoder connection status Connections - terminals  1 spring clamp terminals, removable terminal block 2 spring clamp terminals, removable terminal block Maximum input frequency  5 kHz for sensor 500 kHz for encoder SinCos  Sensor type  Inductive proximity sensor  Electrical connection  1 connector RJ45 conforming to EIA/TIA-568-A  Cable cross section  0.22.5 mm² - AWG 24AWG 14 flexible cablewithout cable end 0.22.5 mm² - AWG 23AWG 14 flexible cablewith cable end, with bezel 0.252.5 mm² - AWG 23AWG 14 flexible cablewith cable end, without bezel	Power consumption in W	3 W
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**Mounting support** 

Omega 35 mm DIN rail conforming to EN 50022

22.5 mm
99 mm
114.5 mm
0.3 kg

## **Environment**

Standards	EN/IEC 61496-1 IEC 62061 EN/ISO 13849-1 EN/IEC 61800-5-1 EN/IEC 61508
Product certifications	RCM cULus TÜV
IP degree of protection	IP20 (enclosure)
Ambient air temperature for operation	-1055 °C
Ambient air temperature for storage	-2085 °C
Relative humidity	1095 %
Pollution degree	2
[Uimp] rated impulse withstand voltage	4 kV conforming to EN/IEC 61800-5
Insulation	250 V AC between power supply and housing conforming to EN/IEC 61800-5-1
Overvoltage category	II .
Electromagnetic compatibility	Electrostatic discharge immunity test - test level: 6 kV (on contact) conforming to EN/IEC 61000-4-2 Electrostatic discharge immunity test - test level: 20 kV (on air) conforming to EN/IEC 61000-4-2 Susceptibility to electromagnetic fields - test level: 10 V/m (801000 MHz) conforming to EN/IEC 61000-4-3 Susceptibility to electromagnetic fields - test level: 30 V/m (1.4 GHz2 GHz) conforming to EN/IEC 61000-4-3
Vibration resistance	+/-0.35 mm (f= 1055 Hz) conforming to EN/IEC 61496-1
Shock resistance	10 gn (duration = 16 ms) for 1000 shocks on each axis conforming to EN/IEC 61496-1
Service life	20 year(s)

# **Packing Units**

Unit Type of Package 1	PCE
Number of Units in Package 1	1
Package 1 Weight	250 g
Package 1 Height	4.5 cm
Package 1 width	12.8 cm
Package 1 Length	16.2 cm
Unit Type of Package 2	S01
Number of Units in Package 2	6
Package 2 Weight	1.741 kg
Package 2 Height	15 cm
Package 2 width	15 cm
Package 2 Length	40 cm

# Offer Sustainability

Sustainable offer status Green Premium product

REACh Regulation	REACh Declaration
REACh free of SVHC	Yes
EU RoHS Directive	Pro-active compliance (Product out of EU RoHS legal scope) EU RoHS Declaration
Mercury free	Yes
RoHS exemption information	Yes
China RoHS Regulation	China RoHS declaration
Environmental Disclosure	Product Environmental Profile
Circularity Profile	End of Life Information
WEEE	The product must be disposed on European Union markets following specific waste collection and never end up in rubbish bins
PVC free	Yes
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

# **Product data sheet**

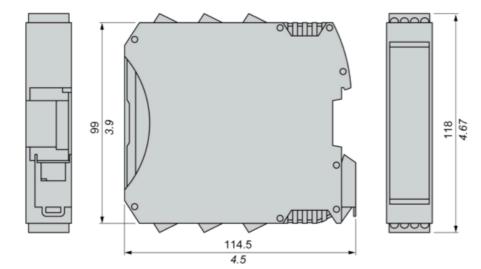
# XPSMCMEN0200SCG

**Dimensions Drawings** 

#### **Dimensions**

## **Spring Terminal**





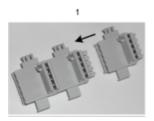
## **Product data sheet**

# XPSMCMEN0200SCG

Mounting and Clearance

#### Mounting Safety Controller CPU with Module(s)

#### Mount BackPlane Connector on Rail



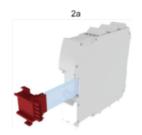




- 1 : Connect as much Backplane Connector as module to be install.
- 2 : Fix the connectors to the rail (Top first).

## Mount Safety Controller CPU with Other Module(s)







- 1 : Mount controller CPU and modules on rail.
- 2 : Make sure that the controller CPU or the module(s) are plugged on the BackPlane connector.