

Product data sheet

Specifications



Speed monitoring 1 TTL encoder expansion module with spring term

XPSMCMEN0100TTG

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 - 20...20 % DC
Discrete input voltage	24 V DC
Function of module	Speed monitoring

Complementary

Power consumption in W	3 W
Power dissipation in W	3 W
Integrated connection type	Backplane expansion bus
Safety level	Can reach category 4 ISO 13849-1 Can reach PL = e ISO 13849-1 Type 4 IEC 61496-1 SILCL 3 IEC 62061
Quality labels	CE
Number of terminal blocks	4
Local signalling	1 LED green PWR power ON 1 LED green RUN RUN (status) 1 LED red E IN internal error 1 LED red E EX external error 2 LEDs orange ADDR node address 1 LED yellow ENC encoder connection status 2 LEDs yellow PROX proximity sensors connection status 2 LEDs yellow SH speed monitoring status
Connections - terminals	1 spring clamp terminals, removable terminal block 2 spring clamp terminals, removable terminal block
Maximum input frequency	5 kHz sensor 500 kHz encoder TTL
Sensor type	Inductive proximity sensor
Electrical connection	1 connector RJ45 EIA/TIA-568-A
Cable cross section	0.0003...0.004 in ² (0.2...2.5 mm ²) - AWG 24...AWG 14 flexible without cable end 0.0003...0.004 in ² (0.2...2.5 mm ²) - AWG 24...AWG 14 solid without cable end 0.0004...0.004 in ² (0.25...2.5 mm ²) - AWG 23...AWG 14 flexible with cable end, with bezel 0.0004...0.004 in ² (0.25...2.5 mm ²) - AWG 23...AWG 14 flexible with cable end, without bezel 0.0008...0.002 in ² (0.5...1 mm ²) - AWG 20...AWG 18 flexible with cable end, with double bezel
Mounting support	Omega 35 mm DIN rail EN 50022

Disclaimer: This documentation is not intended as a substitute for and is not to be used for determining suitability or reliability of these products for specific user applications

Depth	0.9 in (22.5 mm)
Height	3.9 in (99 mm)
Width	4.5 in (114.5 mm)
Net weight	0.62 lb(US) (0.28 kg)

Environment

Standards	IEC 61508 IEC 62061 ISO 13849-1 IEC 61496-1 IEC 61800-5-1
Product certifications	TÜV cULus RCM
IP degree of protection	IP20 enclosure)
Ambient air temperature for operation	14...131 °F (-10...55 °C)
Ambient air temperature for storage	-4...185 °F (-20...85 °C)
Relative humidity	10...95 %
Pollution degree	2
[Uimp] rated impulse withstand voltage	4 kV IEC 61800-5
Insulation	250 V AC between power supply and housing IEC 61800-5-1
Overvoltage category	II
Electromagnetic compatibility	Electrostatic discharge immunity test - test level: 6 kV (on contact) conforming to IEC 61000-4-2 Electrostatic discharge immunity test - test level: 20 kV (on air) conforming to IEC 61000-4-2 Susceptibility to electromagnetic fields - test level: 10 V/m (80...1000 MHz) conforming to IEC 61000-4-3 Susceptibility to electromagnetic fields - test level: 30 V/m (1.4 GHz...2 GHz) conforming to IEC 61000-4-3
Vibration resistance	+/-0.35 mm (f= 10...55 Hz) conforming to IEC 61496-1
Shock resistance	10 gn 16 ms) 1000 shocks on each axis 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 Height	1.8 in (4.5 cm)
Package 1 Width	5.04 in (12.8 cm)
Package 1 Length	6.4 in (16.2 cm)
Package 1 Weight	8.5 oz (240.0 g)
Unit Type of Package 2	S01
Number of Units in Package 2	6
Package 2 Height	5.9 in (15.0 cm)
Package 2 Width	5.9 in (15.0 cm)
Package 2 Length	15.7 in (40.0 cm)
Package 2 Weight	3.702 lb(US) (1.679 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 Better

Materials and Substances	
Packaging made with recycled cardboard	No
Packaging without single use plastic	Yes
EU RoHS Directive	Compliant By Exemption
REACH Regulation	Free of Substances of Very High Concern above the threshold
PVC free	Yes

Use Longer

Lifetime extension	
Repair	No

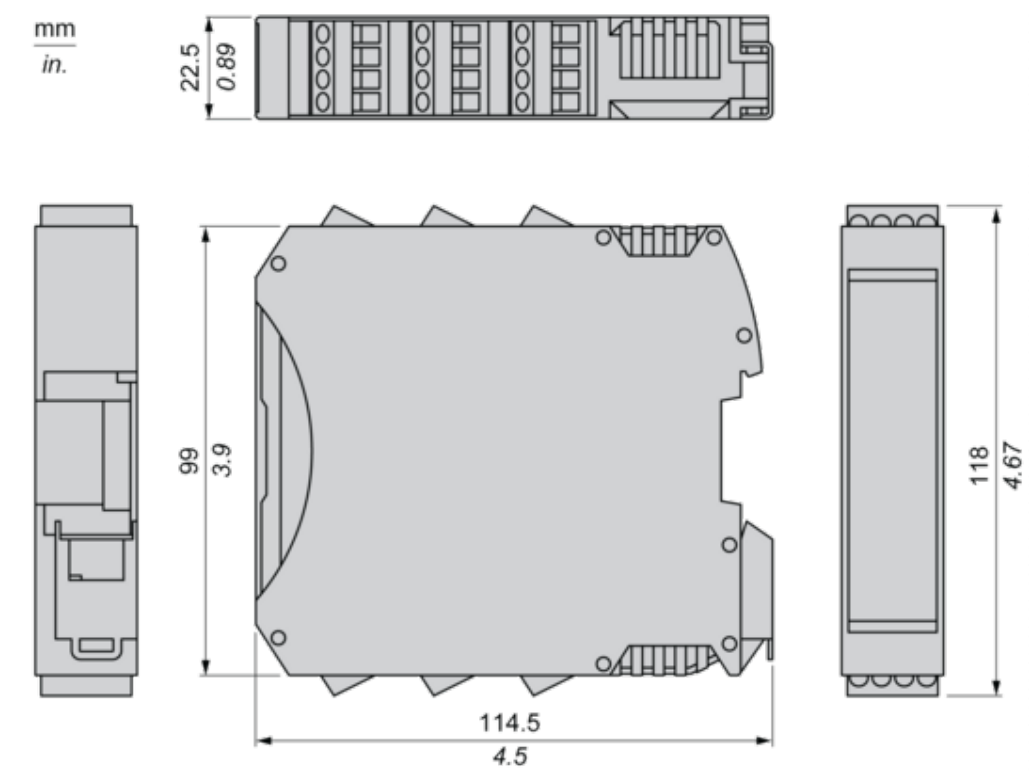
Use Again

Repack and remanufacture	
Take-back	No
WEEE Label	The product must be disposed on European Union markets following specific waste collection and never end up in rubbish bins

Dimensions Drawings

Dimensions

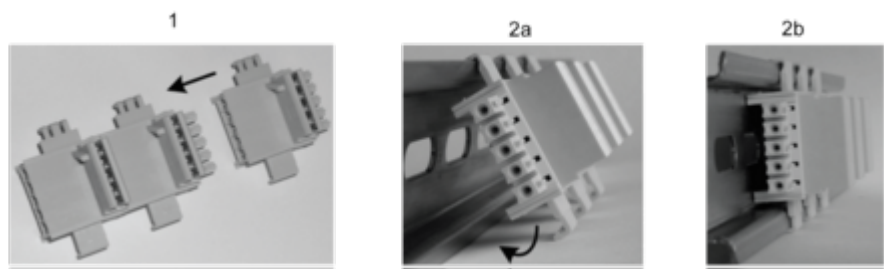
Spring Terminal



Mounting and Clearance

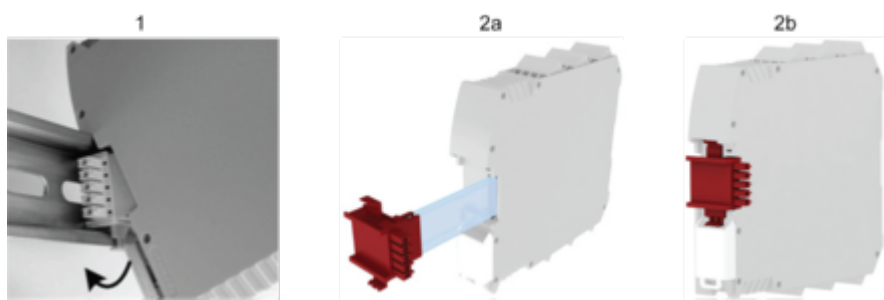
Mounting Safety Controller CPU with Module(s)

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)

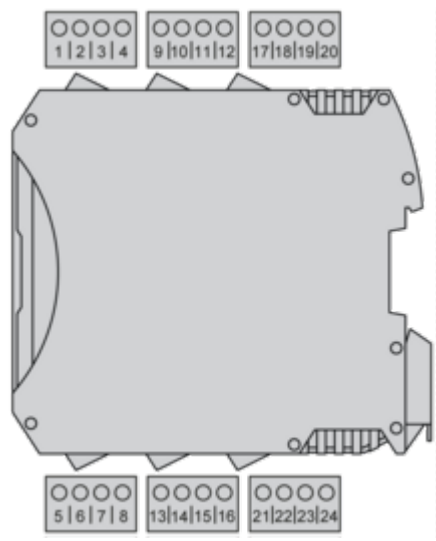


- 1 : Mount controller CPU and modules on rail.
- 2 : Make sure that the controller CPU or the module(s) are plugged on the BackPlane connector.

Connections and Schema

Wiring

Terminal Designation



Terminal	Signal	Description
1	24 VDC	24 VDC power supply
2	NODE_ADDR0	Node selection
3	NODE_ADDR1	
4	0 VDC	0 Vdc power supply
5	PROXY1_24V	PROXIMITY 1 connections
6	PROXY1_REF	
7	PROXY1_NO	
8	PROXY1_NC	
9	PROXY2_24V	PROXIMITY 2 connections
10	PROXY2_REF	
11	PROXY2_NO	
12	PROXY2_NC	
13	not connected	not connected
14		
15		
16		

