



### Main

Range of product	Preventa Safety automation
Product or component type	Safe speed monitoring module
Device short name	XPSMCM
Electrical connection	Screw 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	SILCL 3 conforming to IEC 62061 Can reach category 4 conforming to EN/ISO 13849-1 Can reach PL = e conforming to EN/ISO 13849-1 Type 4 conforming to EN/IEC 61496-1
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 internal error 1 LED red with E EX marking for external error 2 LEDs orange with ADDR marking for node address 2 LEDs yellow with PROX marking for proximity sensors connection status 2 LEDs yellow with SH marking for speed monitoring status 2 LEDs yellow with ENC marking for encoder connection status
Connections - terminals	2-wire captive screw clamp terminals, removable terminal block 1-wire captive screw clamp terminals, removable terminal block
Input frequency	<= 5 kHz for sensor <= 500 kHz for encoder TTL
Sensor type	Inductive proximity sensor

Electrical connection	1 connector RJ45 conforming to EIA/TIA-568-A
Cable cross section	(0.2...2.5 mm <sup>2</sup> flexible cable without cable end (0.2...2.5 mm <sup>2</sup> solid cable without cable end (0.25...2.5 mm <sup>2</sup> flexible cable with cable end, with bezel (0.25...2.5 mm <sup>2</sup> flexible cable with cable end, without bezel (0.2...1.5 mm <sup>2</sup> flexible cable without cable end (0.25...1 mm <sup>2</sup> flexible cable with cable end, without bezel (0.5...1.5 mm <sup>2</sup> flexible cable with cable end, with double bezel (0.2...1 mm <sup>2</sup> solid cable without cable end
Mounting support	Omega 35 mm DIN rail conforming to EN 50022
Depth	22.5 mm
Height	99 mm
Width	114.5 mm
Product weight	0.3 kg

## Environment

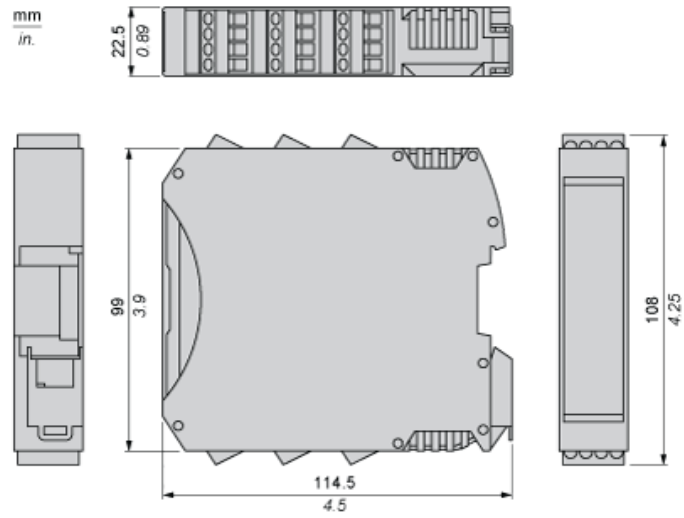
Standards	EN/IEC 61496-1 EN/IEC 61508 EN/IEC 61800-5-1 EN/ISO 13849-1 IEC 62061
Product certifications	cULus TÜV RCM
IP degree of protection	IP20 for enclosure
Ambient air temperature for operation	-10...55 °C
Ambient air temperature for storage	-20...85 °C
Relative humidity	10...95 %
Pollution degree	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, 80...1000 MHz conforming to EN/IEC 61000-4-3 Susceptibility to electromagnetic fields - test level 30 V/m, 1.4 GHz...2 GHz conforming to EN/IEC 61000-4-3
Vibration resistance	+/-0.35 mm (f = 10...55 Hz) conforming to EN/IEC 61496-1
Shock resistance	10 gn (duration = 16 ms) shocks : 1000 shocks on each axis EN/IEC 61496-1
Service life	20 yr

## Offer Sustainability

Sustainable offer status	Green Premium product
RoHS (date code: YYWW)	Compliant - since 1450 - Schneider Electric declaration of conformity <a href="#">Schneider Electric declaration of conformity</a>
REACH	Reference not containing SVHC above the threshold <a href="#">Reference not containing SVHC above the threshold</a>
Product environmental profile	Available
Product end of life instructions	Available

Dimensions

Screw Terminal

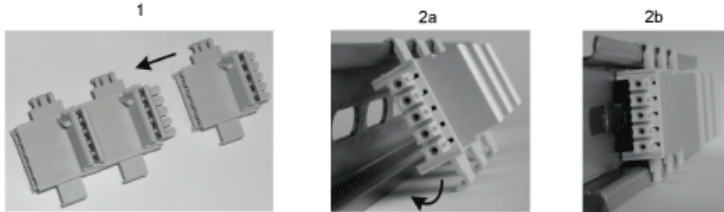


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Mounting Safety Controller CPU with Module(s)

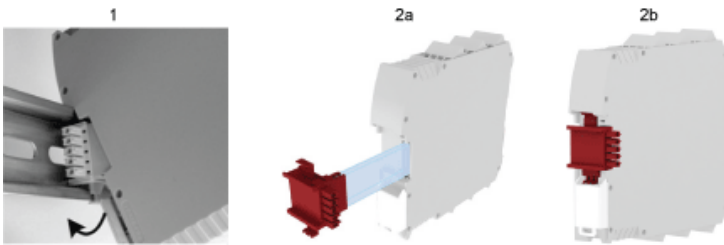
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Mount BackPlane Connector on Rail



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

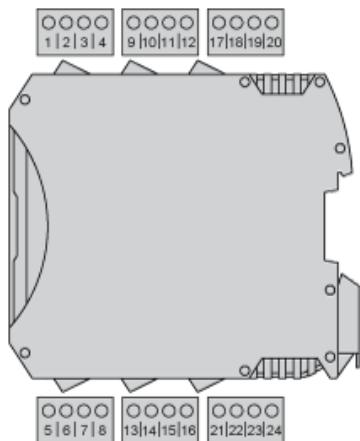
Mount Safety Controller CPU with Other Module(s)



- 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.

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		