

Product data sheet

Specifications



Expansion modules, Modicon MCM, 2 analog input pairs, spring

XPSMCMAI0200G

Product availability: Non-Stock - Not normally stocked in distribution facility

Main

Range of Product	Modicon MCM
Product or Component Type	Safe input expansion module
Device short name	XPSMCM
Electrical Connection	Spring terminal
[Us] rated supply voltage	24 V - 20...20 % DC
Input type	2 analog
Function of module	Analogue input current analog input Analogue input voltage analog input current

Complementary

Power Consumption in W	3 W
Power dissipation in W	3 W
Integrated connection type	Backplane expansion bus
Number of terminal blocks	4
Connections - terminals	4 spring clamp terminals, removable terminal block
Voltage state 0 guaranteed	0...10 V analog input 0...10 V analog input voltage 0...10 V analogue input 0...10 V analogue input circuit 0...10 V analogue input signals 0...10 V temperature sensor
Current state 0 guaranteed	0...20 mA analog input) 0...20 mA analog input current) 0...20 mA analogue input) 0...20 mA analogue input circuit) 0...20 mA analogue input signals) 0...20 mA temperature sensor)
Safety level	Can reach category 4 ISO 13849-1 Can reach PL = e ISO 13849-1 Can reach SIL 3 IEC 61508 SILCL 3 IEC 62061
Quality labels	CE
Discrete input voltage	24 V DC
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 4 LEDs green/red IN input status

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

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

Cable cross section	0.0003...0.002 in² (0.2...1.5 mm²) - AWG 24...AWG 16 flexible without cable end 0.0003...0.004 in² (0.2...2.5 mm²) - AWG 24...AWG 14 flexible without cable end 0.0004...0.002 in² (0.25...1 mm²) - AWG 23...AWG 18 flexible with cable end, without bezel 0.0004...0.004 in² (0.25...2.5 mm²) - AWG 23...AWG 14 flexible with cable end, with bezel 0.0004...0.004 in² (0.25...2.5 mm²) - AWG 23...AWG 14 flexible with cable end, without bezel 0.0008...0.002 in² (0.5...1.5 mm²) - AWG 20...AWG 16 flexible with cable end, with double bezel 0.0003...0.002 in² (0.2...1 mm²) - AWG 24...AWG 18 solid without cable end 0.0003...0.004 in² (0.2...2.5 mm²) - AWG 24...AWG 14 solid without cable end
Mounting support	Omega 35 mm DIN rail EN 50022
Depth	4.5 in (114.5 mm)
Height	3.9 in (99 mm)
Width	0.9 in (22.5 mm)
Net Weight	0.280 lb(US) (0.127 kg)

Environment

Standards	IEC 62061 IEC 61508 ISO 13849-1 IEC 61800-5-1
Product Certifications	RCM cULus TÜV
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 61800-5-1
Safety reliability data	DC > 99 % MTTFd = 186.69 years PFHD = 9.54E-8 1/h high
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)

Ordering and shipping details

Category	US1SAF222477
Discount Schedule	SAF2
GTIN	3606487042198

Returnability	Yes
Country of origin	IT

Packing Units

Unit Type of Package 1	PCE
Nbr. of units in pkg.	1
Package 1 Height	6.4 in (16.2 cm)
Package 1 Width	5.04 in (12.8 cm)
Package 1 Length	1.8 in (4.5 cm)
Package weight(Lbs)	9.07 oz (257 g)
Unit Type of Package 2	S01
Number of Units in Package 2	4
Package 2 Height	5.9 in (15 cm)
Package 2 Width	5.9 in (15 cm)
Package 2 Length	15.7 in (40 cm)
Package 2 Weight	2.707 lb(US) (1.228 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 >](#)



Environmental footprint

Total lifecycle Carbon footprint	115 kg CO2 eq.
Environmental Disclosure	Product Environmental Profile
Carbon footprint of the manufacturing phase [A1 to A3]	7 kg CO2 eq.
Carbon footprint of the distribution phase [A4]	0 kg CO2 eq.
Carbon footprint of the installation phase [A5]	0.2 kg CO2 eq.
Carbon footprint of the use phase [B2, B3, B4, B6]	108 kg CO2 eq.
Carbon footprint of the end-of-life phase [C1 to C4]	0.3 kg CO2 eq.

Use Better



Materials and Substances

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

Use Longer



Lifetime extension

Repair	No
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Use Again



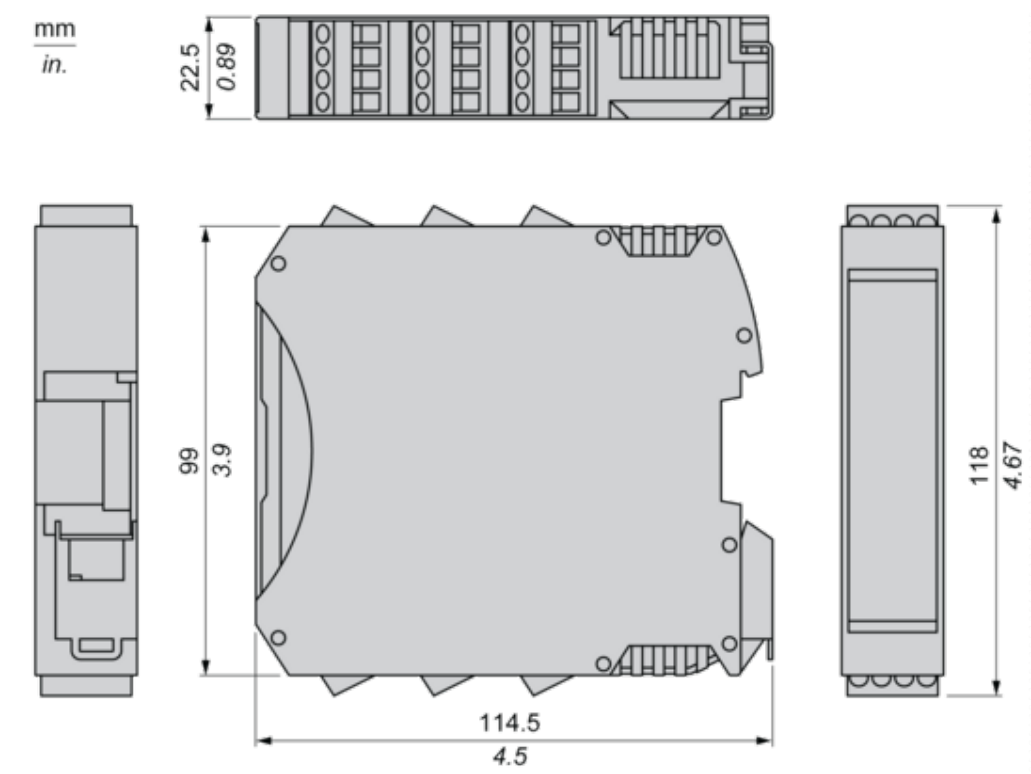
Repack and remanufacture

Circularity Profile	End of Life Information
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

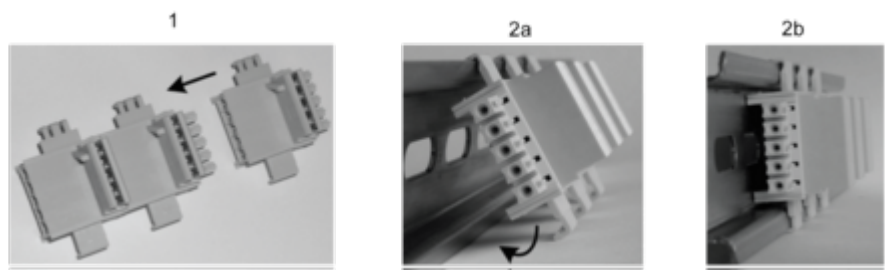
Spring Terminal



Mounting and Clearance

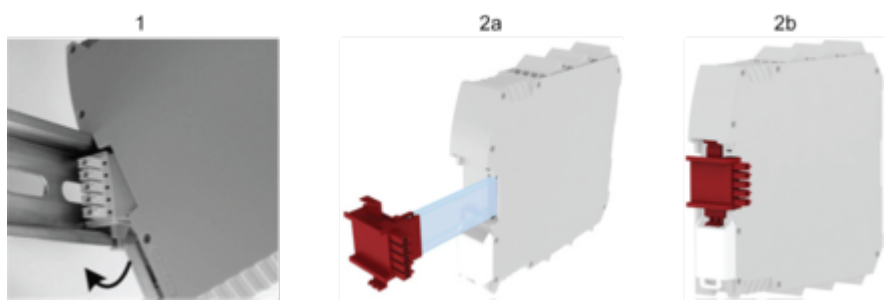
Mounting Safety Controller CPU with Module(s)

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)

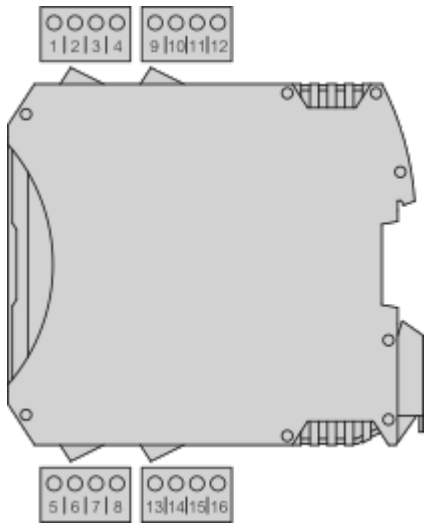


- 1 : Mount controller CPU and modules on rail.
- 2 : Make sure that the controller CPU or the module(s) are plugged on the BackPlane connector.

Connections and Schema

Connections & Schema

Terminal Designation



Terminal	Signal	LED	Type	Description	Operation
1	24 VDC	PWR	-	24 Vdc power supply	-
2	NODE_ADDR0	ADDR0	Input	Node selection	Input type 3 according to EN 61131-2. Maximum resistance 1.2 kΩ.
3	NODE_ADDR1	ADDR1			
4	0 VDC	PWR	-	0 Vdc power supply	-
9	24VDC_S1	CH 1	Output	Sensor 1 connections	Isolated 24 Vdc power supply for sensor 1
10	IN_S1		Input		0/20 mA sensor 1 input(1)
	NEG_S1		Input		0/10 V sensor 1 negative input(2)
11	OUT_S1		Output		0/20 mA sensor 1 input(1)
	POS_S1		Input		0/10 V sensor 1 negative input(2)
12	0 VDC_S1		Output		Isolated 0 Vdc reference for sensor 1
13	24VDC_S2	CH 2	Output	Sensor 2 connections	Isolated 24 Vdc power supply for sensor 2
14	IN_S2		Input		0/20 mA sensor 2 input(1)
	NEG_S2		Input		0/10 V sensor 2 negative input(2)
15	OUT_S2		Output		0/20 mA sensor 2 output(1)
	POS_S2		Input		0/10 V sensor 2 positive input(2)

16	0 VDC_S2	Output	Isolated 0 Vdc reference for sensor 2
(1) Input impedance (channel configured as current input) = 200 (2) Input impedance (channel configured as voltage input) = 250 kΩ according to EN 61131-2.			

Image of product / Alternate images

Alternative





