Product data sheet

Specifications

expansion module, Modicon MCM, 16 inputs, screw

XPSMCMDI1600

Product availability: Stock - Normally stocked in distribution facility

Main

Range of Product	Preventa Safety automation
Product or Component Type	Safe input expansion module
Device short name	XPSMCM
Electrical Connection	Screw terminal
[Us] rated supply voltage	24 V - 20...20 % DC
Input type	16 digital
Output type	4 test line control
Discrete input type	Isolated
Discrete output type	PNP
Function of module	Monitoring safety detection discrete input Monitoring safety dialogue discrete input

Complementary

Power Consumption in W	3 W
Power dissipation in W	3 W
Integrated connection type	Backplane expansion bus
Number of terminal blocks	6
Connections - terminals	2 captive screw clamp terminals, removable terminal block 1 captive screw clamp terminals, removable terminal block
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 16 LEDs yellow 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.

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	0.9 in (22.5 mm)
Height	3.9 in (99 mm)
Width	4.5 in (114.5 mm)
Net Weight	0.55 lb(US) (0.25 kg)

Environment

Standards	IEC 61800-5-1 IEC 61508 ISO 13849-1 IEC 62061
Product Certifications	RCM TÜV cULus
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 < 100 years high PFHd = 7.09E-9 1/h
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	3606480748622

Returnability	Yes
Country of origin	IT

Packing Units

Unit Type of Package 1	PCE
Nbr. of units in pkg.	1
Package 1 Height	1.73 in (4.400 cm)
Package 1 Width	5.04 in (12.800 cm)
Package 1 Length	6.46 in (16.400 cm)
Package weight(Lbs)	8.501 oz (241.000 g)
Unit Type of Package 2	S01
Number of Units in Package 2	6
Package 2 Height	5.91 in (15.000 cm)
Package 2 Width	5.91 in (15.000 cm)
Package 2 Length	15.75 in (40.000 cm)
Package 2 Weight	3.748 lb(US) (1.700 kg)

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	**Pro-active compliance (Product out of EU RoHS legal scope)**
REACh Regulation	**REACh Declaration**
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**
PVC free	**Yes**

Use Again

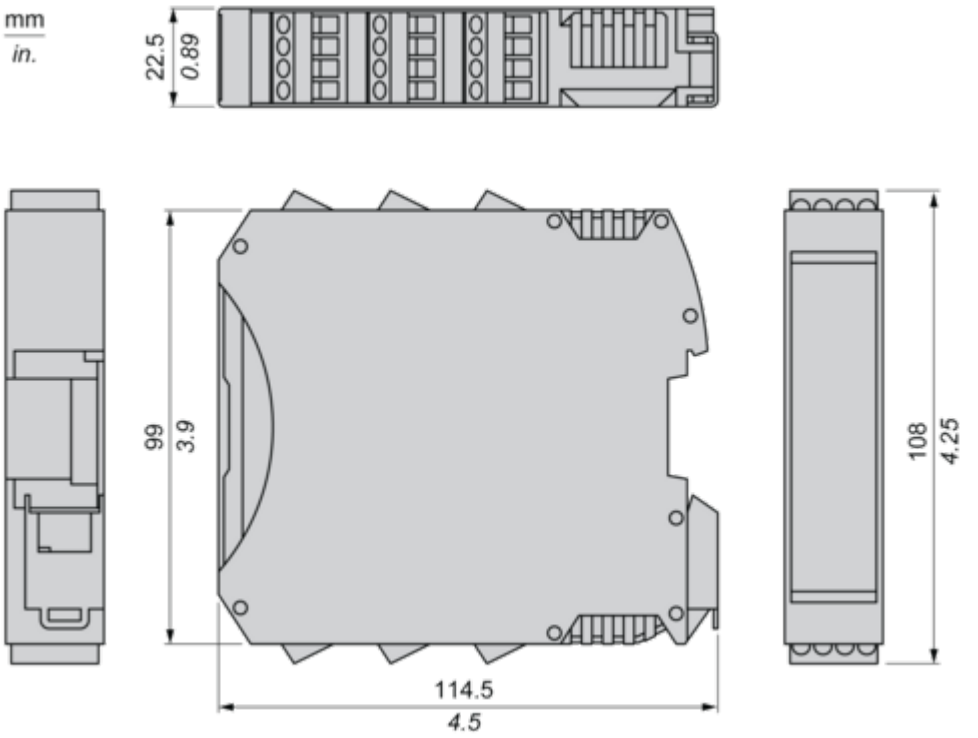
Repack and remanufacture

Take-back	**No**

Dimensions Drawings

Dimensions

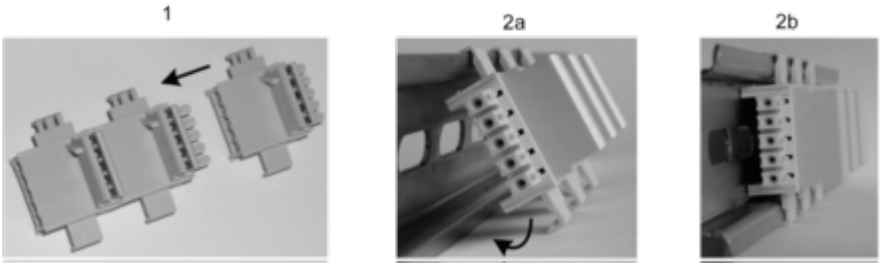
Screw Terminal



Mounting and Clearance

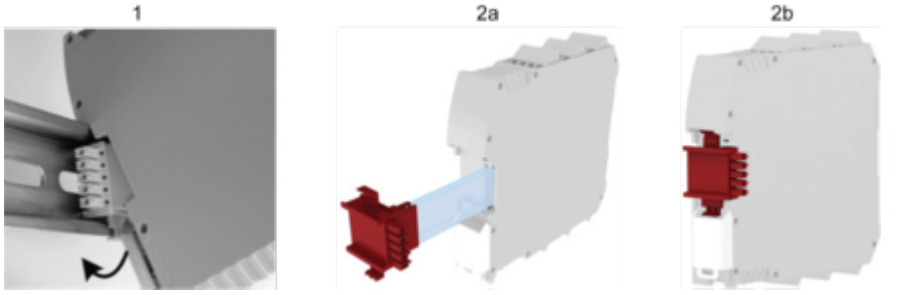
Mounting Safety Controller CPU with Module(s)

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)

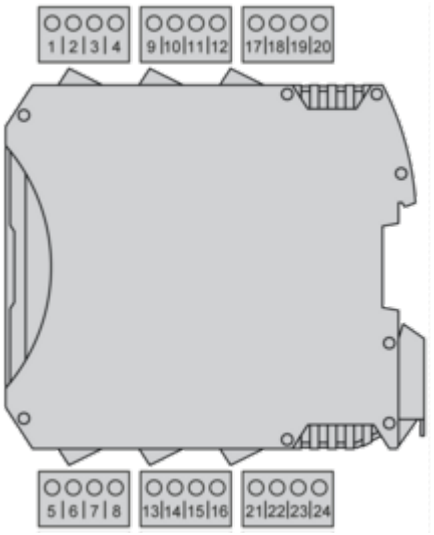


1 : Mount controller CPU and modules on rail.
2 : Make sure that the controller CPU or the module(s) are plugged on the BackPlane connector.

Connections and Schema

Wiring

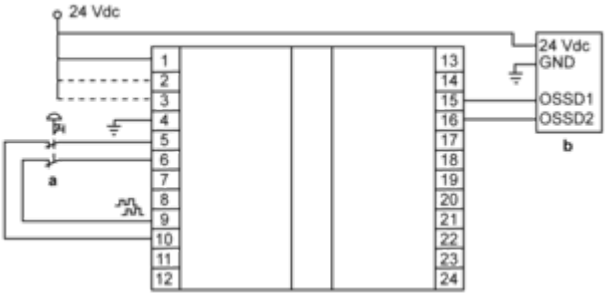
Terminal Designation



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	INPUT1	Digital input 1
6	INPUT2	Digital input 2
7	INPUT3	Digital input 3
8	INPUT4	Digital input 4
9	OUT_TEST1	Short circuit detected output
10	OUT_TEST2	
11	OUT_TEST3	
12	OUT_TEST4	
13	INPUT5	Digital input 5
14	INPUT6	Digital input 6
15	INPUT7	Digital input 7
16	INPUT8	Digital input 8

Terminal	Signal	Description
17	INPUT9	Digital input 9
18	INPUT10	Digital input 10
19	INPUT11	Digital input 11
20	INPUT12	Digital input 12
21	INPUT13	Digital input 13
22	INPUT14	Digital input 14
23	INPUT15	Digital input 15
24	INPUT16	Digital input 16

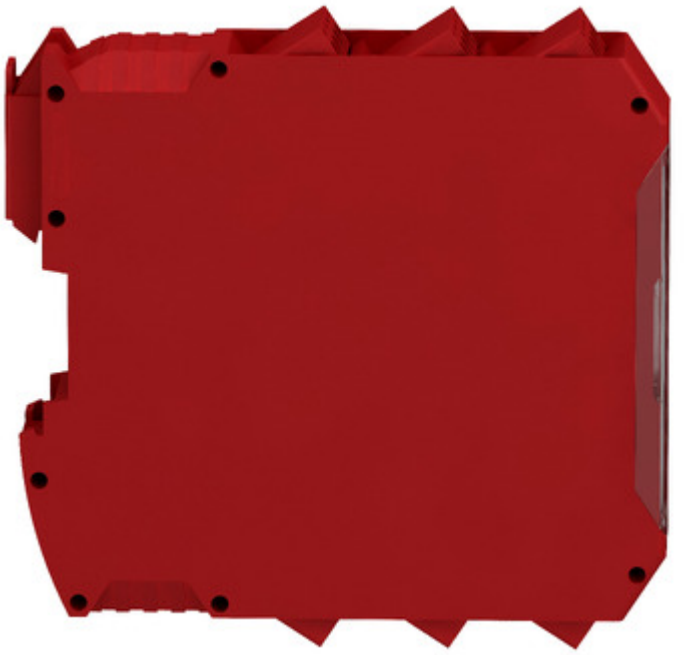
Wiring Example

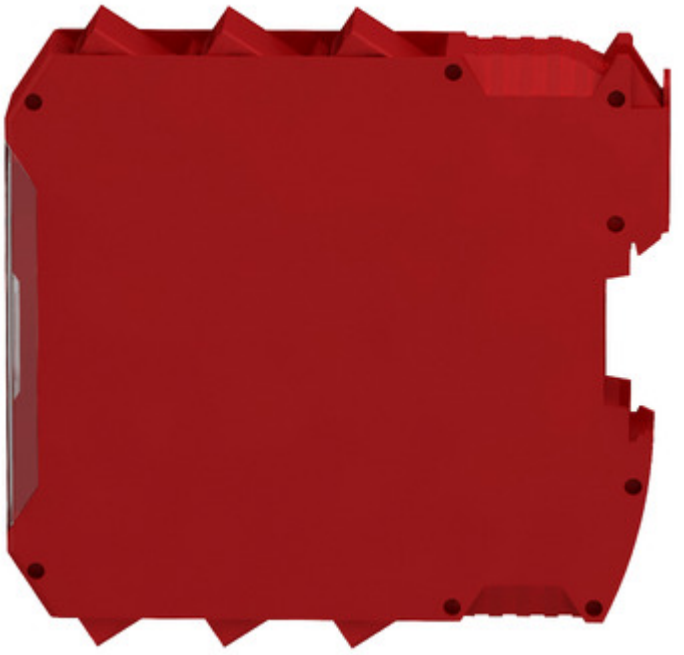


a : Emergency stop
b : Light curtain

Image of product / Alternate images

Alternative






PREVENTA
PWR RUN
E IN E EX
ADDR 0 1
DI16
IN 1 2
3 4
5 6
7 8
9 10
11 12
13 14
15 16
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