

Product data sheet

Specifications



expansion module, Modicon MCM, 4 DO, 2A, spring

XPSMCMDO00042AG

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

Main

Range of Product	Preventa Safety automation
Product or Component Type	Safe output expansion module
Device short name	XPSMCM
Electrical Connection	Spring terminal
[Us] rated supply voltage	24 V - 20...20 % DC
Input type	4 digital external device monitoring
Output type	4 safety outputs OSSD safety outputs OSSD 8 configurable diagnostic connection
Discrete input type	Isolated
Discrete output type	PNP
Function of module	Monitoring safety actuators discrete output Monitoring short-circuit and line break discrete output

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	1 spring clamp terminals, removable terminal block 2 spring clamp terminals, removable terminal block
load type	Resistive load
Group of channels	4 single or 2 dual channel high load 2A/output
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
Discrete output voltage	24 V DC
Discrete output current	2 A 100 mA
Output load	60 Ohm

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

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 OUT output status 4 LEDs yellow RST restart signal 8 LEDs yellow STATUS output status
Cable cross section	0.0003...0.004 in² (0.2...2.5 mm²) - AWG 24...AWG 14 flexible without cable end 0.0004...0.004 in² (0.25...2.5 mm²) - AWG 23...AWG 14 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 0.0003...0.004 in² (0.2...2.5 mm²) - AWG 24...AWG 14 solid with cable end, without bezel 0.0008...0.002 in² (0.5...1 mm²) - AWG 20...AWG 18 flexible with cable end, with double bezel
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)
Product Weight	0.55 lb(US) (0.25 kg)

Environment

Standards	IEC 61508 IEC 61800-5-1 ISO 13849-1 IEC 62061
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 = 395 years high PFHd = 8.64E-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	3606481987112
Returnability	No
Country of origin	IT

Packing Units

Unit Type of Package 1	PCE
Nbr. of units in pkg.	1
Package 1 Height	1.8 in (4.6 cm)
Package 1 Width	5.0 in (12.6 cm)
Package 1 Length	6.5 in (16.5 cm)
Package weight(Lbs)	8.8 oz (249.0 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	3.867 lb(US) (1.754 kg)

Contractual warranty

Warranty (in months)	18
----------------------	----



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
REACH Regulation	Free of Substances of Very High Concern above the threshold
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

Use Longer

Lifetime extension	
Repair	No

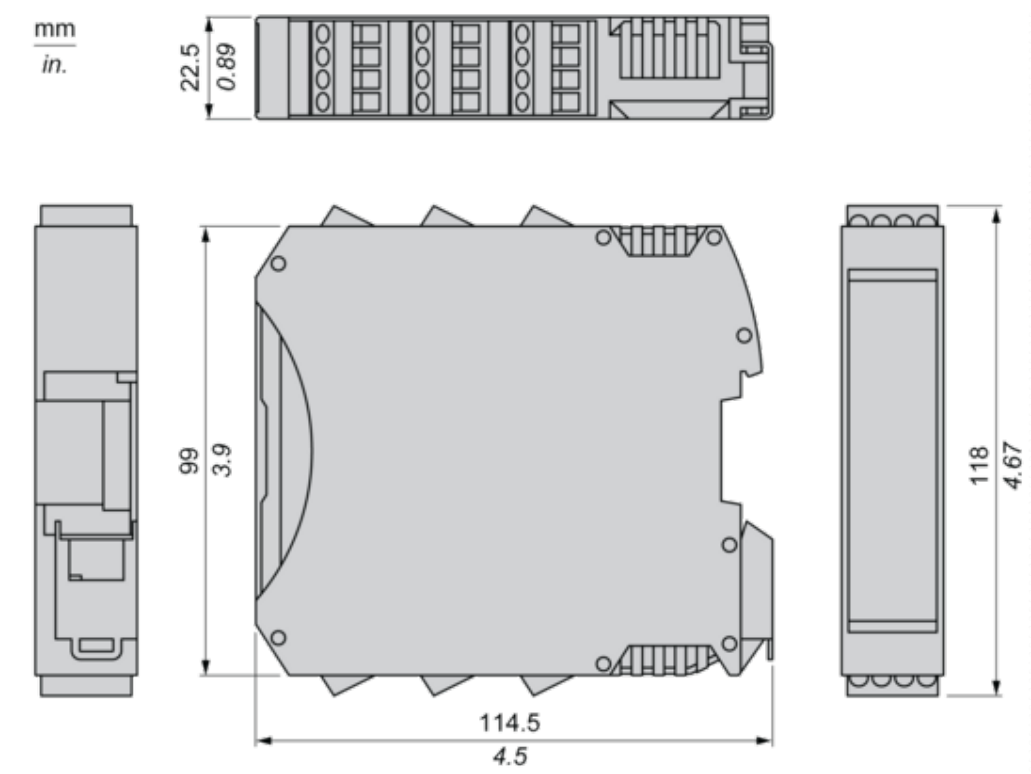
Use Again

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

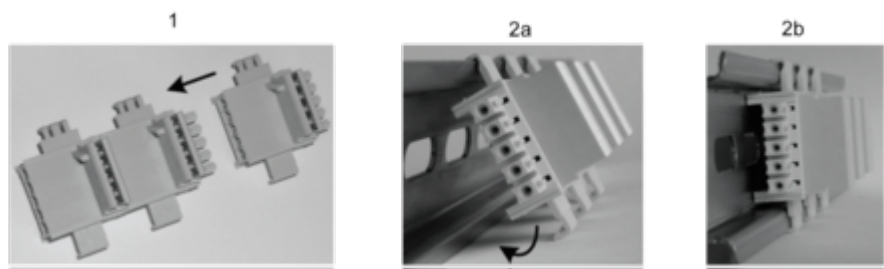
Spring Terminal



Mounting and Clearance

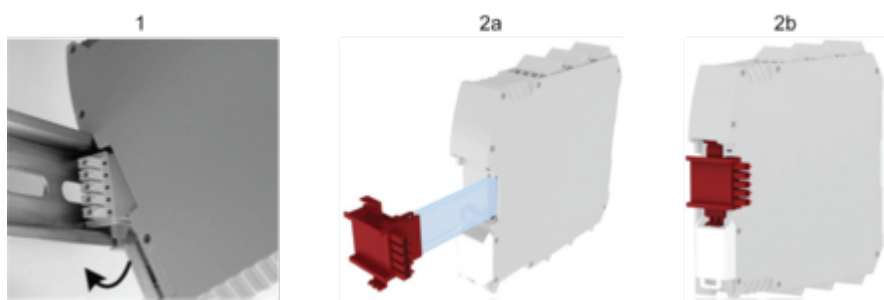
Mounting Safety Controller CPU with Module(s)

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)

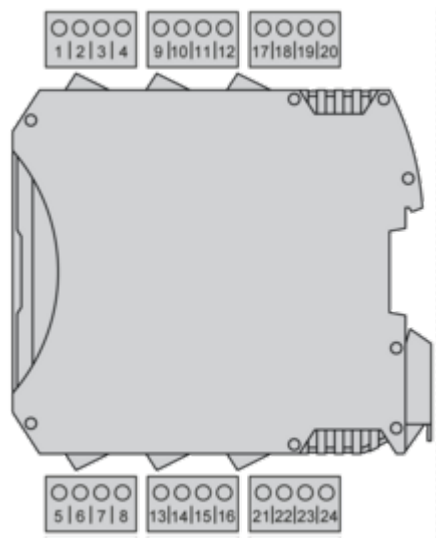


- 1 : Mount controller CPU and modules on rail.
- 2 : Make sure that the controller CPU or the module(s) are plugged on the BackPlane connector.

Connections and Schema

Wiring

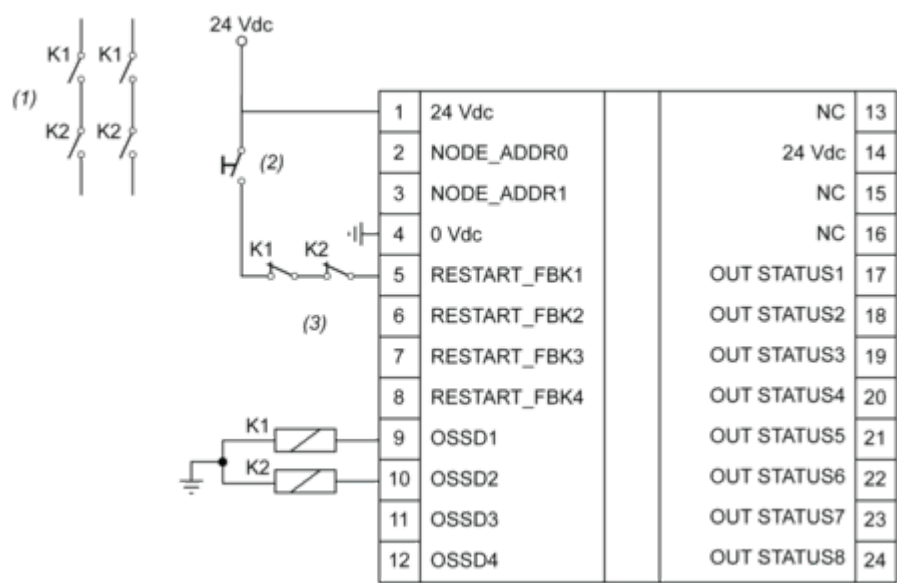
Terminal Designation



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	RESTART_FBK1	Feedback/restart 1 for OSSD1
6	RESTART_FBK2	Feedback/restart 2 for OSSD2
7	RESTART_FBK3	Feedback/restart 3 for OSSD3
8	RESTART_FBK4	Feedback/restart 4 for OSSD4
9	OSSD1	Safety-related output 1
10	OSSD2	Safety-related output 2
11	OSSD3	Safety-related output 3
12	OSSD4	Safety-related output 4
13	-	-
14	24 VDC	24 Vdc power supply
15	-	-
16	-	-

Terminal	Signal	Description
17	OUT_STATUS1	Configurable output 1
18	OUT_STATUS2	Configurable output 2
19	OUT_STATUS3	Configurable output 3
20	OUT_STATUS4	Configurable output 4
21	OUT_STATUS5	Configurable output 5
22	OUT_STATUS6	Configurable output 6
23	OUT_STATUS7	Configurable output 7
24	OUT_STATUS8	Configurable output 8

Wiring Example



- (1) : Contactors
(2) : Restart
(3) : Feedback

Technical Illustration

Dimensions

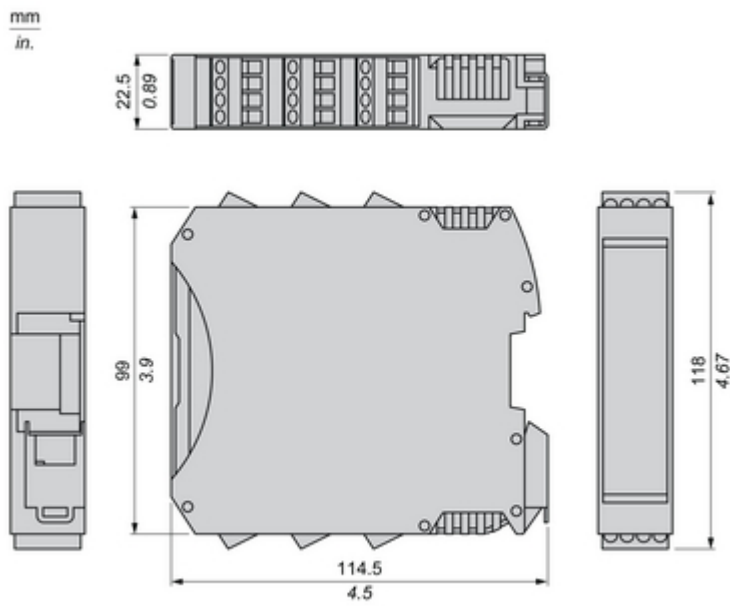


Image of product / Alternate images

Alternative





