Product datasheet

Specifications



8 digital output PL c, SIL1 expansion modules with spring term

XPSMCMDO0008C1G

EAN Code: 3606481987136

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
Output type	8 configurable for diagnostic connection
Discrete input type	Isolated
Discrete output type	DC
Function of module	Monitoring safety actuators for 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	2 spring clamp terminals, removable terminal block
load type	Resistive load
Group of channels	8 single channel
Safety level	Can reach category 1 conforming to ISO 13849-1 Can reach PL = c conforming to ISO 13849-1 Can reach SIL 1 conforming to IEC 61508 SILCL 1 conforming to IEC 62061
Quality labels	CE
Discrete input voltage	24 V DC
Discrete output voltage	24 V DC
Discrete output current	100 mA
Output load	60 Ohm
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 8 LEDs green/red with OUT marking for output status

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	0.2…2.5 mm² - AWG 24...AWG 14 flexible cablewithout cable end 0.25…2.5 mm² - AWG 23...AWG 14 flexible cablewith cable end, without bezel 0.25…2.5 mm² - AWG 23...AWG 14 flexible cablewith cable end, with bezel 0.2…2.5 mm² - AWG 24...AWG 14 solid cablewith cable end, without bezel 0.5…1 mm² - AWG 20...AWG 18 flexible cablewith cable end, with double bezel
Mounting support	Omega 35 mm DIN rail conforming to EN 50022
Depth	22.5 mm
Height	99 mm
Width	114.5 mm
Product weight	0.25 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	-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 IEC 61800-5-1
Safety reliability data	DC > 60 % MTTFd = 985 years high PFHd = 4.44E-9 1/h
Insulation	250 V AC between power supply and housing conforming to 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 (duration = 16 ms) for 1000 shocks on each axis conforming to 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	16.0 cm
Package 1 Width	12.5 cm
Package 1 Length	4.3 cm
Package 1 Weight	220.0 g
Unit Type of Package 2	S01

Number of Units in Package 2	6
Package 2 Height	15.0 cm
Package 2 Width	15.0 cm
Package 2 Length	40.0 cm
Package 2 Weight	1.576 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**

Use Longer

Lifetime extension

Repair	**No**

Use Again

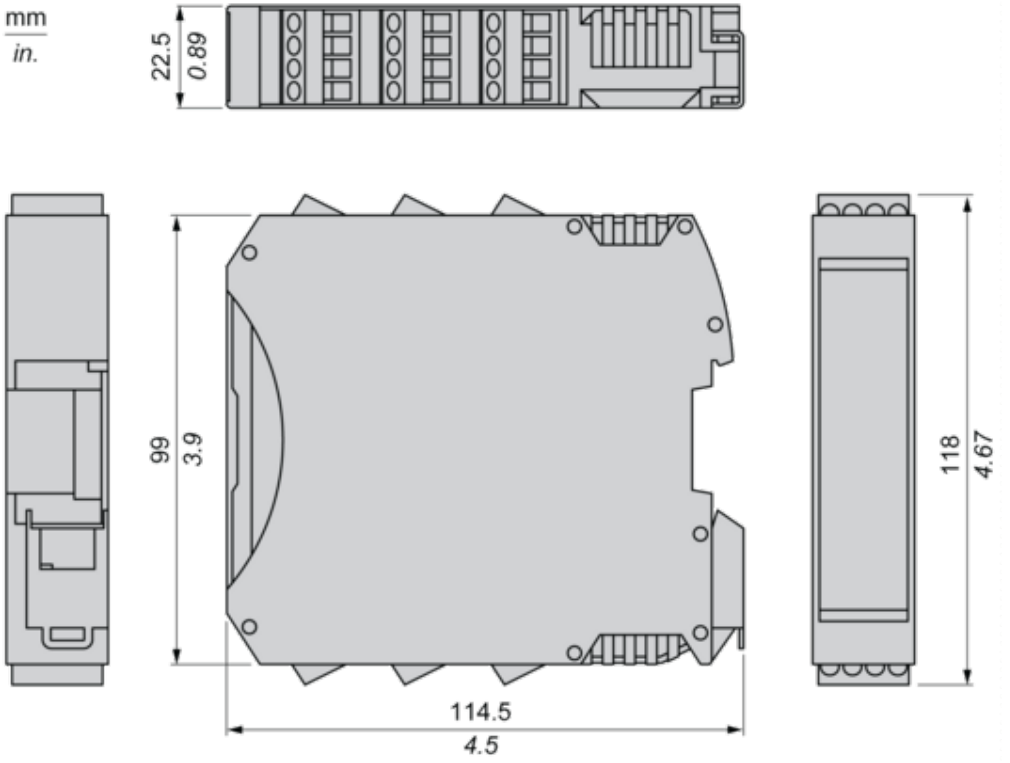
Repack and remanufacture

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

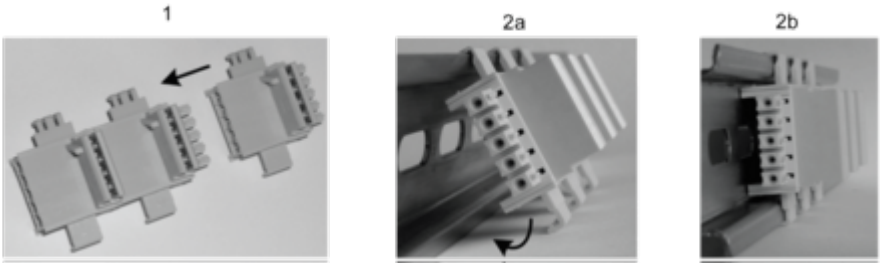
Spring Terminal



Mounting and Clearance

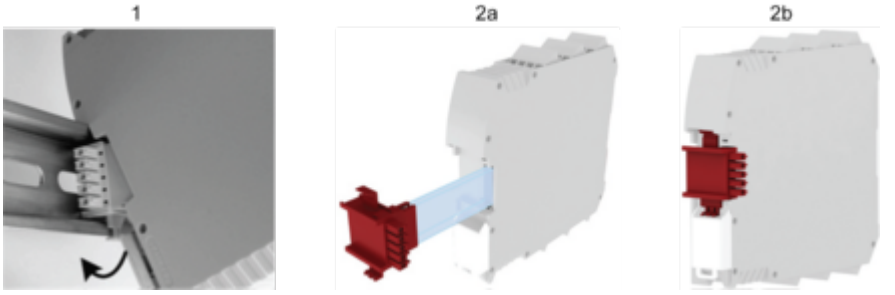
Mounting Safety Controller CPU with Module(s)

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)

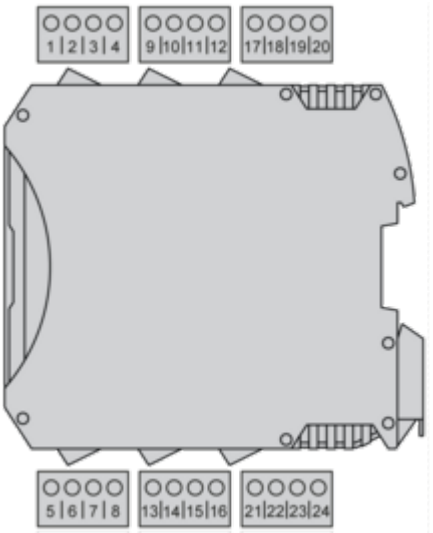


1 : Mount controller CPU and modules on rail.
2 : Make sure that the controller CPU or the module(s) are plugged on the BackPlane connector.

Connections and Schema

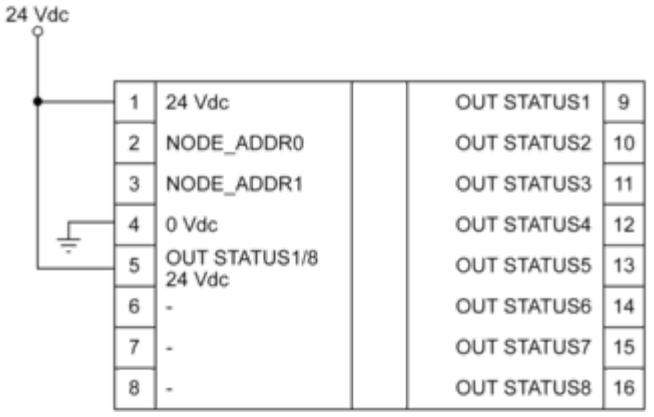
Wiring

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	OUT_STATUS 1/8 24 VDC	24 Vdc power supply
6	-	-
7	-	-
8	-	-
9	OUT_STATUS 1	Configurable output 1
10	OUT_STATUS 2	Configurable output 2
11	OUT_STATUS 3	Configurable output 3
12	OUT_STATUS 4	Configurable output 4
13	OUT_STATUS 5	Configurable output 5
14	OUT_STATUS 6	Configurable output 6
15	OUT_STATUS 7	Configurable output 7
16	OUT_STATUS 8	Configurable output 8

Wiring Example



Technical Illustration

Dimensions

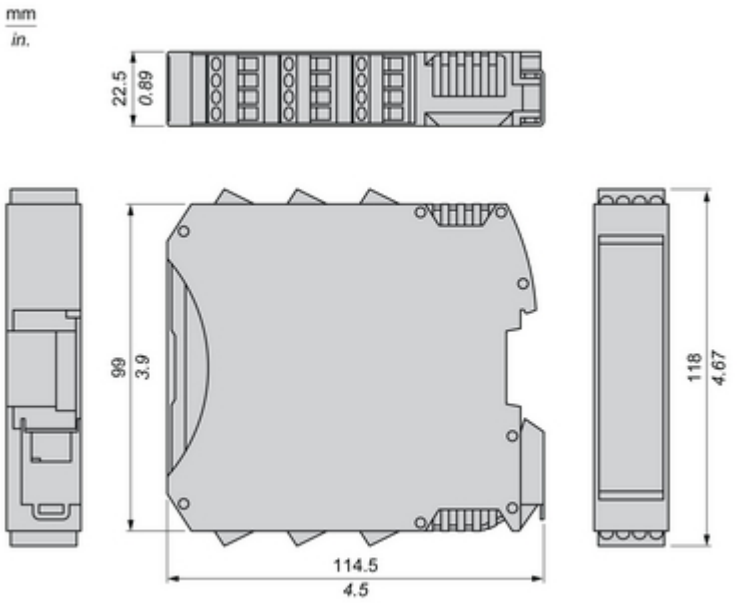
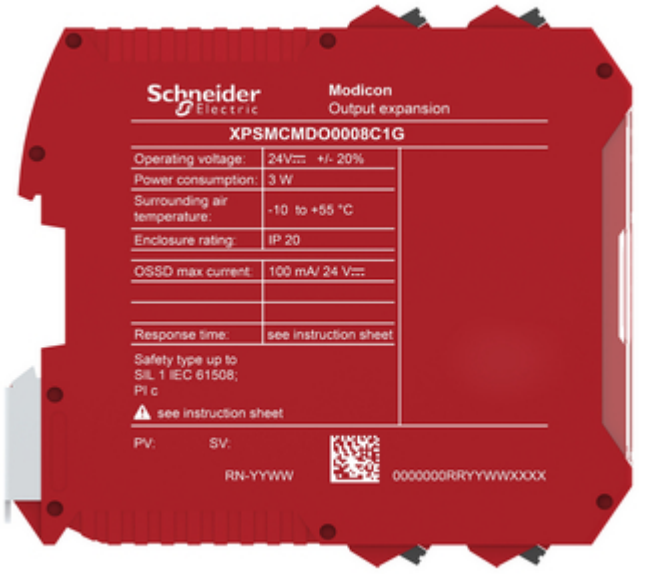
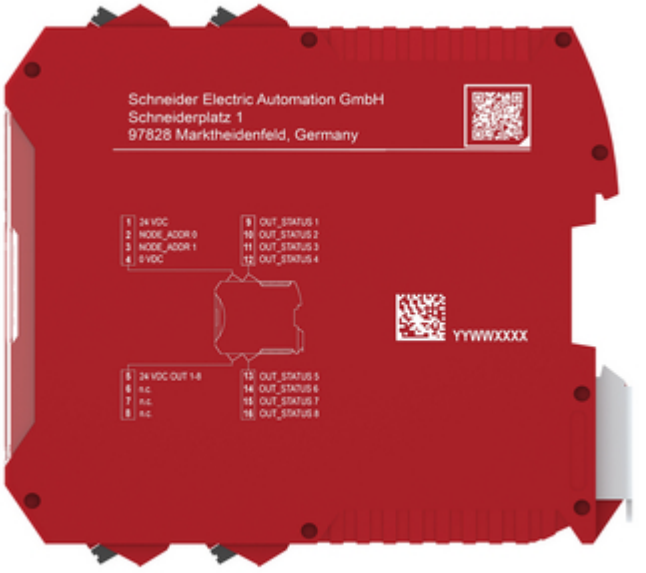


Image of product / Alternate images

Alternative












Modicon
PWR
RUN
E IN
E EX
ADDR
DO08C1
STATUS
Schneider Electric