

XPSMCMRO0004

4 safety relay output expansion with backplane connection with screw term



Main

Range of product	Preventa Safety automation
Product or component type	Safe relay output module
Device short name	XPSMCM
Electrical connection	Screw terminal
[Us] rated supply voltage	24 V (- 20...20 %) DC
Number of outputs	4 relay
Discrete output number	8 solid state 125 mA diagnostics
Function of module	Relay output monitoring safety actuators

Complementary

Power dissipation in W	<= 3 W
Integrated connection type	Backplane expansion bus
Switching voltage	10 V DC
Associated fuse rating	3.5 A slow-blow
Safety level	Can reach SIL 3 conforming to EN/IEC 61508 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
Quality labels	CE
Output type	Relay, with 4 NO, volt-free
Quantity per set	1
Switching time	12 ms
Maximum switching voltage	250 V DC 400 V AC
Minimum switching current	20 mA
Maximum switching current	6 A
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 4 LEDs green/red with RELAY K1...K4 marking for relay contact 4 LEDs yellow with RST marking for reset
Connections - terminals	2-wire captive screw clamp terminals, removable terminal block 1-wire captive screw clamp terminals, removable terminal block
Cable cross section	(0.2...1.5 mm ² - AWG 24...AWG 16) flexible cable without cable end (0.2...2.5 mm ² - AWG 24...AWG 14) flexible cable without cable end (0.25...1 mm ² - AWG 23...AWG 18) flexible cable with cable end, without bezel (0.25...2.5 mm ² - AWG 23...AWG 14) flexible cable with cable end, with bezel (0.5...1.5 mm ² - AWG 20...AWG 16) flexible cable with cable end, with double bezel (0.2...1 mm ² - AWG 24...AWG 18) solid cable without cable end (0.2...2.5 mm ² - AWG 24...AWG 14) solid cable without cable end (0.25...2.5 mm ² - AWG 23...AWG 14) flexible cable with cable end, without bezel
Mounting support	Omega 35 mm DIN rail conforming to EN 50022
Width	22.5 mm
Height	99 mm
Depth	114.5 mm
Product weight	0.3 kg

The information provided in this documentation contains general descriptions and/or technical characteristics of the performance of the products contained herein. 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. It is the duty of any such user or integrator to perform the appropriate and complete risk analysis, evaluation and testing of the products with respect to the relevant specific application or use thereof. Neither Schneider Electric Industries SAS nor any of its affiliates or subsidiaries shall be responsible or liable for misuse of the information contained herein.

Environment

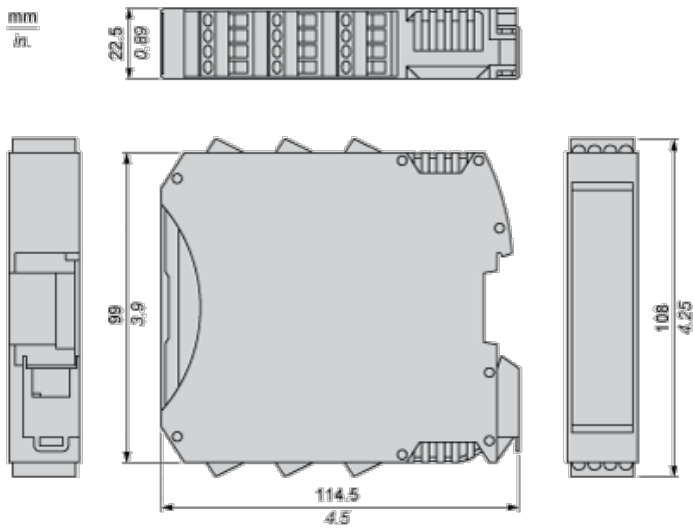
standards	EN/IEC 61508 EN/IEC 61800-5-1 EN/ISO 13849-1 IEC 62061
product certifications	CULus TÜV RCM
IP degree of protection	IP20
ambient air temperature for operation	-10...55 °C
ambient air temperature for storage	-20...85 °C
relative humidity	10...95 %
pollution degree	2
[Uimp] rated impulse withstand voltage	4 kV conforming to EN/IEC 61800-5-1
safety reliability data	B10d = 300000 utilisation category AC-15 230 V, 3 A, conforming to EN/ISO 13849-1 B10d = 750000 utilisation category AC-15 230 V, 1 A, conforming to EN/ISO 13849-1 B10d = 10000000 utilisation category DC-13 24 V, 2 A, conforming to EN/ISO 13849-1
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 1000 shocks on each axis 16 ms EN/IEC 61496-1 1000 shocks on each axis EN/IEC 61496-1 EN/IEC 61496-1
electrical durability	20000000 cycles
mechanical durability	20000000 cycles
service life	20 yr

Offer Sustainability

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

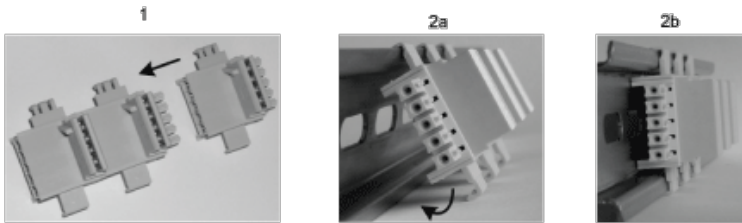
Dimensions

Screw Terminal



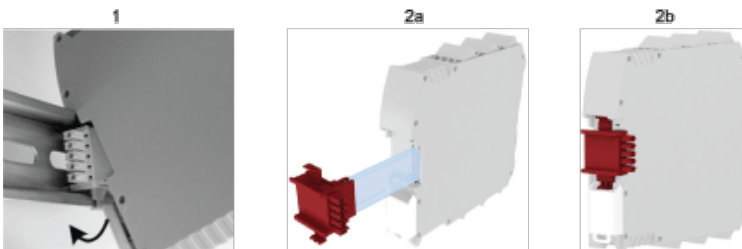
Mounting Safety Controller CPU with Module(s)

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).

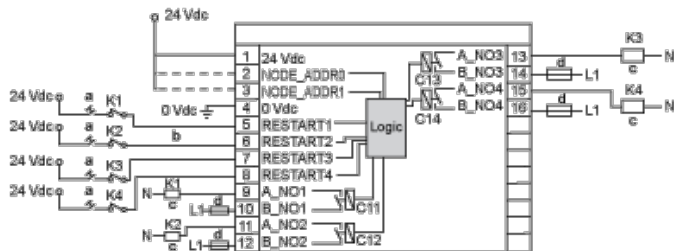
Mount Safety Controller CPU with Other Module(s)



- 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.

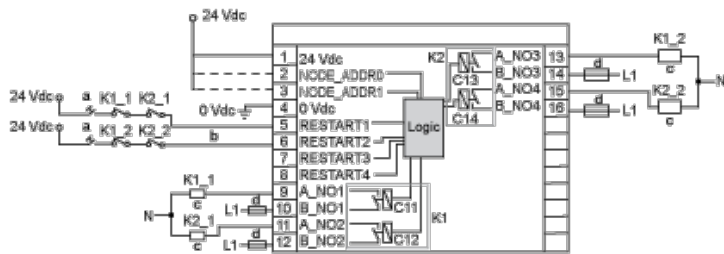
Wiring

Category 2 Wiring



- a : Restart
- b : Feedback
- c : Load
- d : Fuse

Category 4 Wiring



- a : Restart
- b : Feedback
- c : Load
- d : Fuse