XPSMCMROx Instruction Sheet (Original Language)

04/2018



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All pertinent state, regional, and local safety regulations must be observed when installing and using this product. For reasons of safety and to help ensure compliance with documented system data, only the manufacturer should perform repairs to components.

When devices are used for applications with technical safety requirements, the relevant instructions must be followed.

Failure to use Schneider Electric software or approved software with our hardware products may result in injury, harm, or improper operating results.

Failure to observe this information can result in injury or equipment damage.

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About the Book

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At a Glance

Document Scope

This information is about the usage and configuration of the XPSMCMRO0004• and XPSMCMRO0004DA• expansion modules for the XPSMCMCP0802• Modular Safety Controller.

Validity Note

The characteristics that are presented in the present manual should be the same as those characteristics that appear online. In line with our policy of constant improvement, we may revise content over time to improve clarity and accuracy. If you see a difference between the manual and online information, use the online information as your reference.

Product Related Information

The XPSMCM• is built to the following safety integrity levels: SIL 3 according to EN/IEC 61508, SILcl 3 according to EN/IEC 62061, PL e category 4 according to EN ISO 13849-1 in accordance with the applicable standards. However, the definitive SIL and PL of the application depends on the number of safety-related components, their parameters, and the connections that are made, as per the risk analysis.

The module must be configured in accordance with the application-specific risk analysis and all the applicable standards.

Pay particular attention in conforming to any safety information, different electrical requirements, and normative standards that would apply to your adaptation.

A WARNING

UNINTENDED EQUIPMENT OPERATION

Perform an in-depth risk analysis to determine the appropriate safety integrity level for your specific application, based on all the applicable standards.

Failure to follow these instructions can result in death, serious injury, or equipment damage.

NOTE: Configuration of the module is the sole responsibility of the installer or user.

For all matters concerning functional safety, if necessary, contact the competent safety authorities or the competent trade associations of your country.

Consult the specific product documentation and the relative product and/or application standards to ensure correct use of modules connected to the XPSMCMRO0004• or XPSMCMRO0004DA• module within your specific application.

The ambient temperature of the installed system must be compatible with the operating temperature parameters stated on the product label and in the product specifications.

XPSMCMROx Expansion Modules

Safety-related Information

NOTE: The safety-related function can be compromised if this module is not used for the intended purpose and in accordance with the instructions in the present document. This module must only be used as safety-related equipment on machines intended to protect persons, material, and installations.

A DANGER

HAZARD OF ELECTRIC SHOCK, EXPLOSION OR ARC FLASH

- Do not install, operate, or maintain this equipment unless you are a trained professional electrician and qualified to perform these activities.
- Install and use this equipment only in locations known to be non-hazardous.
- Do not use the equipment described herein to supply external drives or contactors.
- Use the same ground supply (0 Vdc) to supply all modules of the Modular Safety Controller family.
- Disconnect all power from all equipment including connected input devices, contactors, and drives prior to removing any covers or doors, or installing or removing any accessories, hardware, cables, or wires.
- If connected drives or contactors contain stored energy, allow sufficient time after the removal of power for the stored energy to discharge in accordance with the instructions for those drives and contactors.
- Always use a properly rated voltage sensing equipment to confirm that the power is removed.
- Avoid contacting terminals with hand or tools until the power has been confirmed removed.
- Follow all electrical safety regulations and standards (for example, lockout/tag-out, phase grounding, barriers) to reduce the possibility of contact with hazardous voltages in the work area.
- Remove locks, tags, barriers, temporary ground straps, and replace and secure all covers, doors, accessories, hardware, cables, and wires and confirm that a proper ground connection exists before reapplying power to the unit.
- Complete thorough hardware tests and system commissioning to verify that line voltages are not present on the control circuits before using your hardware operationally.
- Use only the specified voltage when operating this equipment and any associated products.

Failure to follow these instructions will result in death or serious injury.

A DANGER

LOSS OF DESIGNATED SAFETY FUNCTION

- Install the XPSMCM• Modular Safety Controller system in an enclosure with a degree of protection of at least IP 54.
- Always use an isolated power supply (PELV) to help prevent the application of line voltages to control circuitry in the case of short-circuits.

Failure to follow these instructions will result in death or serious injury.

A DANGER

POTENTIAL FOR EXPLOSION OR UNINTENDED EQUIPMENT OPERATION

- Install and use the Modular Safety Controller in non-hazardous locations only.
- Do not use the Modular Safety Controller system for life support systems.

Failure to follow these instructions will result in death or serious injury.

NOTE: The observation of operating limits and duty cycles is of particular importance for equipment designed to perform a safety-related function. If this module has been subjected to electrical, mechanical, or environmental stresses in excess of its stated limits, do not use it.

WARNING

UNINTENDED EQUIPMENT OPERATION

- Do not exceed any of the rated operating limits for the equipment specified in the present document.
- Immediately cease using and replace any equipment that has or might have been subjected to conditions in excess of its rated operating limits.

Failure to follow these instructions can result in death, serious injury, or equipment damage.

User Responsibilities

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, machine builder, or system 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 nor any of its affiliates or subsidiaries shall be responsible or liable for misuse of the information contained herein. If you have any suggestions for improvements or amendments or have found discrepancies in this publication, notify Schneider Electric. All pertinent safety regulations must be observed when installing and using this product. For reasons of safety and to help ensure compliance with documented system data, only the manufacturer should perform repairs to components.

Qualified Personnel

Electrical equipment should be installed, operated, serviced, and maintained only by qualified personnel. A qualified person is one who has skills and knowledge related to the construction and operation of this electrical equipment and its installation, and has received safety training to recognize and avoid the hazards involved.

Modular Safety Controller

Key safety values	Value	Standard
Probability of a dangerous failure per hour (PFHd)	Refer to module-specific characteristics.	IEC 61508
Safety Integrity Level (SIL)	3	
Hardware Fault Tolerance (HFT)	1 (type B)	
Defined "Safe state" ¹	All outputs off	
Safety Integrity Level claim limit (SILcl)	3	IEC 62061
Туре	4	EN 61496-1
Performance Level (PL) ²	е	EN ISO 13849-1
Diagnostic Coverage _{avg}	High	
Mean Time to Dangerous Failure (MTTFd)	2500 years with Category 4 architecture, otherwise 100 years ³	
Category ²	4	
Maximum service life	20 years	

1 The Modular Safety Controller and expansion modules are in the defined safe state when their outputs are off. To exit the defined safe state condition, a combination of hardware inputs is required.

2 The EN ISO 13849-1 performance level (PL) and safety category (Cat) of the overall system depends on multiple factors, including the selected modules, wiring practices, the physical environment, and the application.

3 If expansion modules are added to the configuration, the MTTFd of the overall system is affected, refer to the SoSafe Configurable Project Report.

WARNING

UNINTENDED EQUIPMENT OPERATION

- You must carry out a risk assessment in accordance with EN ISO 14121-1.
- Validate the entire system/machine in accordance with the required performance level and risk assessment.

Failure to follow these instructions can result in death, serious injury, or equipment damage.

Module and Function Description

The XPSMCMR00004• and XPSMCMR00004DA• are output expansion modules for the XPSMCM• Modular Safety Controller offer. The XPSMCMR00004• and XPSMCMR00004DA• modules can only be configured in conjunction with the XPSMCMCP0802• Modular Safety Controller. The XPSMCMR00004• module contains two Category 4, or four Category 1, or two single-channel relay outputs. The XPSMCMR00004DA• module contains two Category 4, or four Category 1, or two single-channel safety-related relay outputs. The diagnostic status outputs can be configured using SoSafe Configurable software.

Node Address: The XPSMCMR00004• and XPSMCMR00004DA• modules contain two node address inputs: NODE_ADDR0 and NODE_ADDR1.

The NODE_ADDR0 and NODE_ADDR1 inputs (on the expansion modules) are used to attribute a physical address to the modules with the connections presented in the table:

NODE	NODE_ADDR1 (Terminal 3)	NODE_ADDR0 (Terminal 2)
NODE 0	0 (or not connected)	0 (or not connected)
NODE 1	0 (or not connected)	24 Vdc
NODE 2	24 Vdc	0 (or not connected)
NODE 3	24 Vdc	24 Vdc

NOTE: It is not allowed to use the same physical address for two units of the same module reference.

Inputs

The XPSMCMR00004• and XPSMCMR00004DA• modules contain four digital inputs to read the feedback of the external device monitoring (EDM). The specific settings of these inputs is configured within the SoSafe Configurable software environment.

Outputs

The XPSMCMR00004• and XPSMCMR00004DA• modules use guided contact safety relays. Each module contains four independent relay outputs which can be configured as Category 1, Category 2 or Category 4 within SoSafe Configurable software.

The STATUS outputs are configurable digital outputs that indicate the diagnostic status of safety function inputs and/or outputs. The status outputs are non-safety related outputs (not implicated in the prescribed safety function) and are intended to be connected only for diagnostic purposes. Eight status outputs are available on the XPSMCMRO0004DA• module.

WARNING

UNINTENDED EQUIPMENT OPERATION

Do not use STATUS outputs for safety-related functions.

Failure to follow these instructions can result in death, serious injury, or equipment damage.

Terminals



XPSMCMRO0004• module

Terminal	Signal	LED	Туре	Description	Operation
1	24 VDC	PWR	-	24 Vdc power supply	-
2	NODE_ADDR0	ADDR0	Input	Node selection	Input type 3. Maximum
3	NODE_ADDR1	ADDR1			applicable resistance 1.2 kΩ.
4	0 VDC	PWR	-	0 Vdc power supply	-

Terminal	Signal	LED	Туре	Description	Operation
5	RESTART1	RST 1	Input	Feedback/Restart 1	Input type 3. Maximum
6	RESTART2	RST 2		Feedback/Restart 2	applicable resistance
7	RESTART3	RST 3		Feedback/Restart 3	1.2 K12.
8	RESTART4	RST 4		Feedback/Restart 4	
9	A_NO1	-	Output	NO contact channel 1	-
10	B_NO1				
11	A_NO2			NO contact channel 2	
12	B_NO2				
13	A_NO3			NO contact channel 3	
14	B_NO3				
15	A_NO4			NO contact channel 4	
16	B_NO4				

XPSMCMRO0004DA• module

Terminal	Signal	LED	Туре	Description	Operation
1	24 VDC	PWR	-	24 Vdc power supply	-
2	NODE_ADDR0	ADDR0	Input	Node selection	Input type 3. Maximum
3	NODE_ADDR1	ADDR1			applicable resistance 1.2 kΩ.
4	0 VDC	PWR	-	0 Vdc power supply	-
5	RESTART1	RST 1	Input	Feedback/Restart 1	Input type 3. Maximum
6	RESTART2	RST 2		Feedback/Restart 2	applicable resistance
7	RESTART3	RST 3		Feedback/Restart 3	1.2 1.22.
8	RESTART4	RST 4		Feedback/Restart 4	
9	A_NO1	-	Output	NO contact channel 1	-
10	B_NO1				
11	A_NO2			NO contact channel 2	
12	B_NO2				
13	A_NO3			NO contact channel 3	
14	B_NO3				
15	A_NO4			NO contact channel 4	
16	B_NO4				

Terminal	Signal	LED	Туре	Description	Operation
17	OUT_STATUS 1	STATUS 1	Output	Configurable diagnostic output	PNP (sourcing) active high
18	OUT_STATUS 2	STATUS 2			
19	OUT_STATUS 3	STATUS 3			
20	OUT_STATUS 4	STATUS 4			
21	OUT_STATUS 5	STATUS 5			
22	OUT_STATUS 6	STATUS 6			
23	OUT_STATUS 7	STATUS 7			
24	OUT_STATUS 8	STATUS 8			

Wiring Example

XPSMCMR00004• modules

Category 2 wiring



Category 4 wiring



XPSMCMRO0004DA• modules





Category 4 wiring

Category 4 wiring



Dimensions



Screw terminals 108 mm (4.25 in)

** Spring terminals 118 mm (4.67 in)

Mount the modules (Modular Safety Controller and any I/O expansion modules) in an electric cabinet with an IP54 degree of protection. The minimum clearance below and above the controller is 40 mm. Allow at least 100 mm distance between the cabinet door and the front face of the module(s). There are no clearances required on the left or right side of the module(s); however, other equipment in proximity may require larger distances and those clearances must also be taken into account.

Technical Data

Cable types and wire sizes

for a 5.08 pitch removable screw terminal block									
mm 7 in. 0.28		β	₿	Å		χη 		æ	
mm ²	0.22.5	0.22.5	0.252.5	0.251.5	2 x 0.21	2 x 0.21.5	2 x 0.251	2 x 0.51.5	
AWG	2414	2414	2314	2316	2 x 2418	2 x 2416	2 x 2318	2 x 2016	
N·m 0.5 Ø 3.5 mm (0.14 in.) C c D lb-in 4.42									

for a 5.08 pitch removable **spring** terminal block (used by XPSMCM ... G).

mm 10 in. 0.39	-	å		₿	æ
mm ²	0.22.5	0.22.5	0.252.5	0.252.5	2 x 0.51
AWG	2414	2414	2314	2314	2 x 2018

The following instructions concerning connection cables must be observed:

- Use 60/75 °C copper (Cu) conductor only. Maximum cable length 100 m (328 ft).
- Cables used for connections of longer than 50 m (164 ft) must have a cross-section of at least 1 mm² (AWG 16).

Housing characteristics	
Housing material	Polyamide
Housing degree of protection	IP20
Terminal blocks degree of protection	IP2x
Mounting	35 mm DIN rail according to EN/IEC 60715
Mounting position	Any plane
Dimensions (h x l x d)	 with screw terminals: 108 x 22.5 x 114.5 mm (4.25 x 0.89 x 4.5 in) with spring terminals: 118.5 x 22.5 x 114.5 mm (4.67 x 0.89 x 4.5 in)

General characteristics				
Rated voltage	24 Vdc ± 20 % (PELV supply)			
Dissipated power	3 W maximum			
Overvoltage category	П			
Ambient operating temperature	-10+55 °C (14131 °F)			
Storage temperature	-20+85 °C (-4185 °F)			
Relative humidity	1095%			
Maximum operation altitude	2000 m (6562 ft)			
Pollution degree	2			

General characteristics						
Vibration resistance (IEC/EN 61496-1)	+/- 3.5 mm (0.138 in) 58.4 Hz 1 g (8.4150 Hz)					
Shock resistance (IEC/EN 61496-1)	15 g (11 ms half-sine)					
EMC Category	Zone B					
Response time (ms)	Controller	10.612.6	+ T _{Input_filter}			
The response time depends on the following parameters:	Controller + 1 expansion module	11.826.5	+ T _{Input_filter}			
Number of expansion modules	Controller + 2 expansion modules	12.828.7	+ T _{Input_filter}			
 Number of operators 	Controller + 3 expansion modules	13.930.8	+ T _{Input_filter}			
Number of OSSD outputs	Controller + 4 expansion modules	1533	+ T _{Input_filter}			
Status outputs	Controller + 5 expansion modules	1635	+ T _{Input_filter}			
For the response time, refer to the one calculated by the SoSafe Configurable	Controller + 6 expansion modules	1737.3	+ T _{Input_filter}			
software (see project report). The set in the project T_{1}	Controller + 7 expansion modules	18.239.5	+ T _{Input_filter}			
for the inputs. For details, refer to the	Controller + 8 expansion modules	19.341.7	+ T _{Input_filter}			
Input functions (see Modular Safety Controller, User Guide).	Controller + 9 expansion modules	20.443.8	+ T _{Input_filter}			
	Controller + 10 expansion modules	21.546	+ T _{Input_filter}			
	Controller + 11 expansion modules	22.548.1	+ T _{Input_filter}			
	Controller + 12 expansion modules	23.650.3	+ T _{Input_filter}			
	Controller + 13 expansion modules	24.752.5	+ T _{Input_filter}			
	Controller + 14 expansion modules	25.854.6	+ T _{Input_filter}			

Module-specific characteristics	XPSMCMRO0004•	XPSMCMRO0004DA•
Reference description	Electronic housing maximum 16- pole, with locking latch mounting	Electronic housing maximum 24- pole, with locking latch mounting
Switching capacity according to EN 60947-5-1	AC-15, 240 V, 3 A or DC-13, 24 V, 2 A	
Switching current (resistive)	6 A maximum	
Excitation voltage	1731 Vdc	
Minimum switching voltage	10 Vdc	
Minimum switching current	20 mA	
Maximum switching voltage (DC)	250 Vdc	
Maximum switching voltage (AC)	400 Vac	
Relay contact type	4	
FEEDBACK contacts	4 / EDM (External Device Monitoring) t 1.2 k Ω . / Possible automatic or manual	ype 3. Maximum applicable resistance Il operation with restart pushbutton

Module-specific characteristics	XPSMCMRO0004•	XPSMCMRO0004DA•
Status outputs	-	8 configurable diagnostic outputs PNP active high 100 mA @ 24 Vdc max
Response time	12 ms	
Mechanical life of contacts	> 20 x 10 ⁶	
Connection to expansion modules	5-way backplane expansion	
Weight	0.12 kg (4.2 Oz)	

Module-s	pecific cha	racteristics o	concerning	g safety (XPS	MCMRO	0004•/XPSI	MCMROO	004DA•)	
-		Feedback contact used				Feedback contact not used			
-		PFHd	SFF (%)	MTTFd (years)	DCavg	PFHd	SFF (%)	MTTFd (years)	DCavg
DC-13	t _{cycle1}	3.09E-10	99.6	2335.94	98.9	9.46E-10	0.60	2335.93	0
(2A)	t _{cycle2}	8.53E-11	99.7	24453.47	97.7	1.08E-10	0.87	24453.47	0
	t _{cycle3}	6.63E-11	99.8	126678.49	92.5	6.75E-11	0.97	126678.5	0
AC-15	t _{cycle1}	8.23E-09	99.5	70.99	99.0	4.60E-07	0.50	70.99	0
(3A)	t _{cycle2}	7.42E-10	99.5	848.16	99.0	4.49E-09	0.54	848.15	0
	t _{cycle3}	1.07E-10	99.7	12653.85	98.4	1.61E-10	0.79	12653.85	0
AC-15	t _{cycle1}	3.32E-09	99.5	177.38	99.0	7.75E-08	0.51	177.37	0
(1A)	t _{cycle2}	3.36E-10	99.6	2105.14	98.9	1.09E-09	0.60	2105.14	0
	t _{cycle3}	8.19E-11	99.7	28549.13	97.5	1.00E-10	0.88	28549.13	0

t_{cycle1} 300 s (1 commutation every 5 minutes) t_{cycle2} 3600s (1 commutation every hour) t_{cycle3} 1 commutation every day PFHd Probability of a dangerous failure per hour according IEC 61508

MTTFd and DCavg Mean Time to dangerous Failure and Diagnostic Coverage average according EN ISO 13849-1

Checklist After Installation

The following must be verified:

Step	Action
1	Conduct a full functional test of the system (see <i>Validation</i> in the <i>Modular Safety Controller User Guide</i> .)
2	Verify that all the cables are correctly inserted and the terminal blocks are within correct torque for screw terminals.
3	Verify that all the LED indicators are correctly illuminating for the inputs and outputs used.
4	Verify the positioning and function of all input and output sensors and actuators used with the XPSMCM•.
5	Verify the correct mounting of XPSMCM• to the DIN rail.
6	Verify that all the external indicators (lamps/beacons/sirens) are correctly functioning.

EC Declaration of Conformity

			EC [Copy of Document- Original L	N OF CONFORMITY no.: EAV9139101.00 anguage
WE:	Schneider	Electric Aut	tomation Gmbl	H / Schneiderplatz	1 / Marktheidenfeld 97828, Germany
hereby d	leclare that th	e safety con	nponent		
TRADEN	MARK:	SCHNEIDE	RELECTRIC		
PRODUC	CT, TYPE:	Modular Sa	fety Controller		
MODELS	S:	XPSMCMC XPSMCMD XPSMCME XPSMCME XPSMCMM XPSMCMM	00000S1•, XPS I1200MT•, XPS N0100HT•, XPS N0200SC•, XPS IX0802•, XPSMI IE0000	SMCMC00000S2•, X MCMDI1600•, XPSN SMCMEN0100SC•, X SMCMEN0200TT•, X CMRO0004DA•, XPS	IPSMCMCP0802*, XPSMCMD0800*, ICMD00002*, XPSMCMD00004*, IPSMCMEN0100T*, XPSMCMEN0200HT*, IPSMCMER0002*, XPSMCMER0004*, SMCMR00004*, XPSMCMEN0200*,
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