

Product data sheet

Specifications



expansion module, Modicon MCM, 4
safety relay outputs, spring

XPSMCMER0008G

Main

Range of product	Modicon MCM
Product or component type	Safe relay output module
Device short name	XPSMCM
Electrical connection	Spring terminal
[Us] rated supply voltage	24 V - 20...20 % DC
Number of outputs	8 relay
Function of module	Monitoring safety actuators relay output

Complementary

Maximum power dissipation in W	3 W
Integrated connection type	Not connected to backplane expansion bus
Switching voltage	10 V DC
Associated fuse rating	3.5 A, slow-blow
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
Output type	Relay, 8 NO + 4 NC, volt-free
Quantity per set	1
Switching time	12 ms
Maximum switching voltage	400 V AC 250 V DC
minimum switching current	20 mA
Maximum switching current	6 A
Number of terminal blocks	12
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 2 LEDs green/red RELAY K1...K2 relay contact
Connections - terminals	1 spring clamp terminals, removable terminal block 2 spring clamp terminals, removable terminal block

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	0.0003...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
Width	1.8 in (45 mm)
Height	3.9 in (99 mm)
Depth	4.5 in (114.5 mm)
Net weight	0.827 lb(US) (0.375 kg)

Environment

Standards	IEC 62061 ISO 13849-1 IEC 61800-5-1 IEC 61508
Product certifications	RCM cULus TÜV
IP degree of protection	IP20
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	B10d = 300000 AC-15 230 V, , <3 A ISO 13849-1 B10d = 750000 AC-15 230 V, , <1 A ISO 13849-1 B10d = 10000000 DC-13 24 V, , <2 A ISO 13849-1
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
Electrical durability	20000000 cycles
Mechanical durability	20000000 cycles
service life	20 year(s)

Packing Units

Unit Type of Package 1	PCE
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Number of Units in Package 1	1
Package 1 Height	6.4 in (16.2 cm)
Package 1 Width	5.04 in (12.8 cm)
Package 1 Length	2.8 in (7 cm)
Package 1 Weight	9.07 oz (257 g)
Unit Type of Package 2	S01
Number of Units in Package 2	6
Package 2 Height	5.9 in (15 cm)
Package 2 Width	5.9 in (15 cm)
Package 2 Length	15.7 in (40 cm)
Package 2 Weight	3.400 lb(US) (1.542 kg)

Contractual warranty

Warranty (in months)	18
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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 >](#)



Environmental footprint

Total lifecycle Carbon footprint	125 kg CO2 eq.
Carbon footprint of the manufacturing phase [A1 to A3]	17 kg CO2 eq.
Carbon footprint of the distribution phase [A4]	0 kg CO2 eq.
Carbon footprint of the installation phase [A5]	0.2 kg CO2 eq.
Carbon footprint of the use phase [B2, B3, B4, B6]	108 kg CO2 eq.
Carbon footprint of the end-of-life phase [C1 to C4]	0.3 kg CO2 eq.
Environmental Disclosure	Product Environmental Profile

Use Better



Materials and Substances

Packaging made with recycled cardboard	No
Packaging without single use plastic	No
EU RoHS Directive	Compliant By Exemption
REACH Regulation	Free of Substances of Very High Concern above the threshold

Use Longer



Lifetime extension

Repair	No
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Use Again

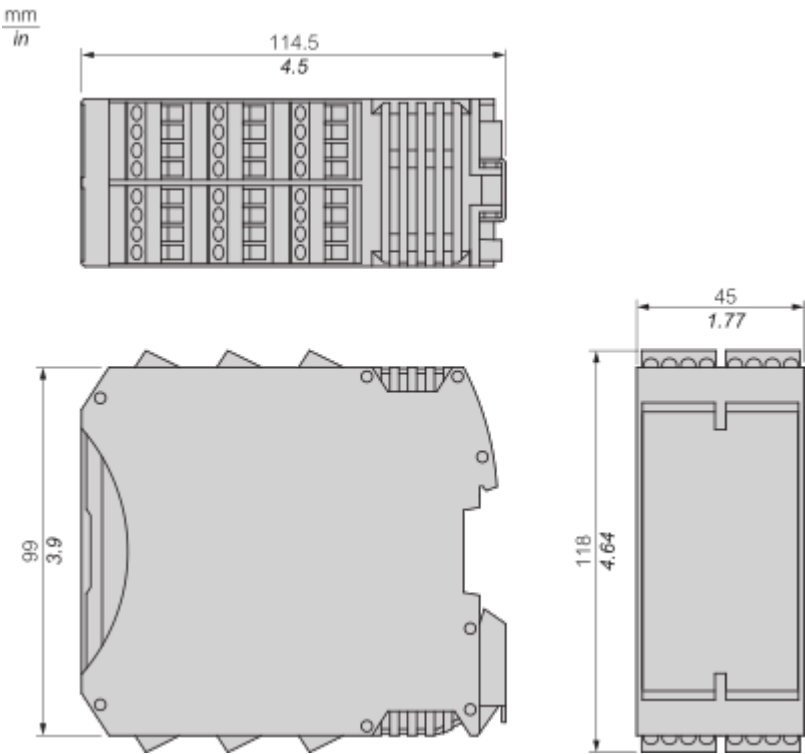


Repack and remanufacture

Circularity Profile	End of Life Information
Take-back	Nej
WEEE Label	 The product must be disposed on European Union markets following specific waste collection and never end up in rubbish bins

Dimensions Drawings

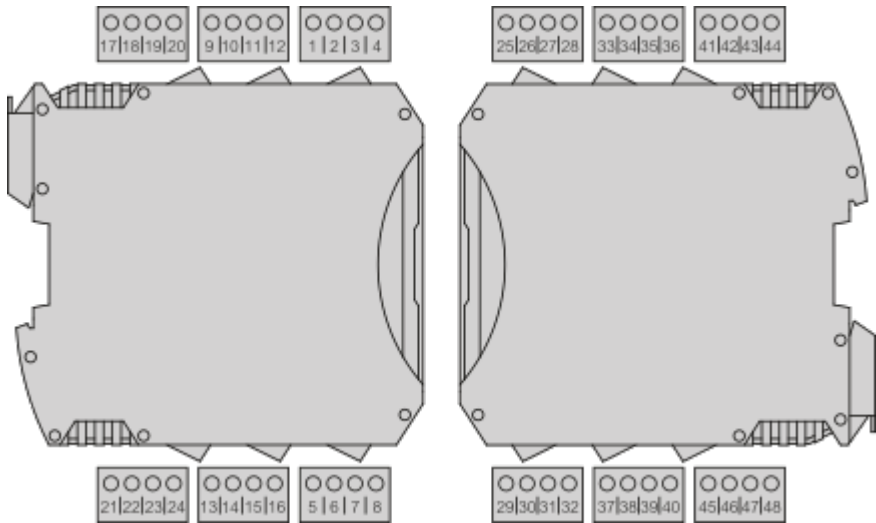
Dimensions



Connections and Schema

Connections & Schema

Terminal Designation



Terminal	Signal	LED	Type	Description	Operation
1	24 VDC	-	-	24 Vdc power supply	-
4	0 VDC	0 Vdc power supply	-		
5	OSSD1_A	Input	Control relay input 1	Input type 3. Maximum applicable resistance 1.2 kΩ.	
6	OSSD1_B				
7	FBK_K1_K2_1_1	-	Output	Feedback relay output 1	-
8	FBK_K1_K2_1_2				
9	A_NC1	RELAY 1	Output	NC contact relay output 1	-
10	B_NC1				
13	A_NO11	NO contact 1 relay output 1			
14	B_NO11				
15	A_NO12	NO contact 2 relay output 1			
16	B_NO12				
17	OSSD2_A	-	Input	Control relay input 2	Input type 3. Maximum applicable resistance 1.2 kΩ.

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18	OSSD2_B				
19	FBK_K1_K2_2_1	-	Output	Feedback relay output 2	-
20	FBK_K1_K2_2_2				
11	A_NC2	RELAY 2	NC contact relay output 2		
12	B_NC2				
21	A_NO21	NO contact 1 relay output 2			
22	B_NO21				
23	A_NO22	NO contact 2 relay output 2			
24	B_NO22				
25	24 VDC	-	-	24 VDC power supply	-
28	GND	0 VDC power supply			
29	OSSD3_A	-	Input	Control relay output 3	Input type 3. Maximum applicable resistance 1.2 kΩ.
30	OSSD3_B				
31	FBK_K1_K2_3_1	-	Output	Feedback relay output 3	-
32	FBK_K1_K2_3_2				
33	A_NC3	RELAY 3	Output	NC contact relay output 3	
34	B_NC3				
37	A_NO31	NO contact 1 relay output 3			
38	B_NO31				
39	A_NO32	NO contact 2 relay output 3			
40	B_NO32				
41	OSSD4_A	-	Input	Control relay output 4	Input type 3. Maximum applicable resistance 1.2 kΩ.
42	OSSD4_B				
43	FBK_K1_K2_4_1		Output	Feedback relay output 4	-

44	FBK_K1_K2_4_2				
35	A_NC4	RELAY 4	Output	NC contact relay output 4	
36	B_NC4				
45	A_NO41	NO contact 1 relay output 4			
46	B_NO41				
47	A_NO42	NO contact 2 relay output 4			
48	B_NO42				

Image of product / Alternate images

Alternative

