

Safety controller, Modicon MCM, 8 inputs 4 outputs, combined with backplane expansion connector, spring

XPSMCMC10804BG

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

Main

Range of Product	Modicon Safety automation	
Device short name	XPSMCM	
Electrical Connection	Spring terminal	
Product or Component Type	Modular safety controller CPU kit	
[Us] rated supply voltage	24 V - 2020 % DC	
Number of inputs	8 digital input connection 4 digital interlock start/restart or external device monitoring	
	4 digital interioric statistic statistic device monitoring	
Number of outputs	4 safety outputs OSSD contactor/drive connection	
	4 test line control outputs	
	4 configurable diagnostic connection	
Discrete input voltage	24 V	
Discrete output current	400 mA	
Discrete input current	400 mA	
Discrete input type	Safety input	
	PNP	
Discrete output type	PNP	
Kit composition	1 safety controller CPU	
	1 backplane expansion connector	
Function of module	Emergency stop ISO 13850	
	Guard monitoring EN/ISO 14119	
	Enabling switch monitoring IEC 60947-5-1	
	Light curtain monitoring IEC 61496-1	
	Foot switch monitoring IEC 60947-5-1	
	Light curtain monitoring EN/ISO 14119	
	Switch monitoring EN 574	
	Two-hand control EN/ISO 14119	
	Safety mat monitoring IEC 61326-1	
	Switch monitoring IEC 61800-5-2	
	Muting function of light curtains IEC 61800-5-2 Safety time delays	
	Counter functions	
Backplane connector	With	
	vvidi	

Complementary

Synchronisation time between inputs	< 0.5 ms
Power dissipation in W	3 W
Maximum number of I/O expansion module	14 128 input 14 32.0 output

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

Backplane expansion bus USB 2.0 port	
SD card optional)	
2.4 mH	
0.82 μF	
Can reach category 4 ISO 13849-1 Can reach PL = e ISO 13849-1 Type 4 IEC 61496-1 SILCL 3 IEC 62061	
CE	
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 1 LED orange COM communication 1 LED blue EN master enable 8 LEDs yellow IN input status 2 LEDs green/red OUT output status 2 LEDs yellow RST restart signal 2 LEDs yellow STATUS output channel	
2 spring terminals, removable terminal block 1 spring terminals, removable terminal block	
0.00030.002 in² (0.21.5 mm²) - AWG 24AWG 16 flexible without cable end 0.00030.004 in² (0.22.5 mm²) - AWG 24AWG 14 flexible without cable end 0.00040.002 in² (0.251 mm²) - AWG 23AWG 18 flexible with cable end, without bezel 0.00040.004 in² (0.252.5 mm²) - AWG 23AWG 14 flexible with cable end, with bezel 0.00040.002 in² (0.251.5 mm²) - AWG 23AWG 16 flexible with cable end, without bezel 0.00080.002 in² (0.51.5 mm²) - AWG 20AWG 16 flexible with cable end, without bezel 0.00080.002 in² (0.51.5 mm²) - AWG 20AWG 18 solid without cable end 0.00030.002 in² (0.21 mm²) - AWG 24AWG 18 solid without cable end 0.00030.004 in² (0.22.5 mm²) - AWG 24AWG 14 solid without cable end	
Omega 35 mm DIN rail EN 50022	
4.5 in (114.5 mm)	
3.9 in (99 mm)	
0.9 in (22.5 mm)	
0.342 lb(US) (0.155 kg)	
IEC 61496-1 ISO 13849-1 IEC 61508 IEC 61800-5-1 IEC 62061	
ISO 13849-1 IEC 61508 IEC 61800-5-1	
ISO 13849-1 IEC 61508 IEC 61800-5-1 IEC 62061 TÜV RCM	
ISO 13849-1 IEC 61508 IEC 61800-5-1 IEC 62061 TÜV RCM cULus	
ISO 13849-1 IEC 61508 IEC 61800-5-1 IEC 62061 TÜV RCM cULus	
ISO 13849-1 IEC 61508 IEC 61800-5-1 IEC 62061 TÜV RCM cULus IP20 14131 °F (-1055 °C)	
ISO 13849-1 IEC 61508 IEC 61800-5-1 IEC 62061 TÜV RCM cULus IP20 14131 °F (-1055 °C) -4185 °F (-2085 °C)	

Safety reliability data	PFHd = 1.35E-8 1/h high	
	DC > 99 %	
	MTTFd < 100 years	
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 (801000 MHz) conforming to IEC 61000-4-3	
	Susceptibility to electromagnetic fields - test level: 30 V/m (1.4 GHz2 GHz) conforming to IEC 61000-4-3	
Vibration resistance	+/-0.35 mm (f= 1055 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

<u> </u>		
Category	US1SAF222477	
Discount Schedule	SAF2	
GTIN	3606481987082	
Returnability	No	
Country of origin	IT	

Packing Units

Unit Type of Package 1	PCE	
Nbr. of units in pkg.	1	
Package 1 Height	1.77 in (4.5 cm)	
Package 1 Width	5.04 in (12.8 cm)	
Package 1 Length	6.46 in (16.4 cm)	
Package weight(Lbs)	9.2 oz (262.0 g)	
Unit Type of Package 2	S01	
Number of Units in Package 2	6	
Package 2 Height	5.91 in (15.0 cm)	
Package 2 Width	5.91 in (15.0 cm)	
Package 2 Length	15.75 in (40.0 cm)	
Package 2 Weight	4.052 lb(US) (1.838 kg)	



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

Packaging made with recycled cardboard	No
Packaging without single use plastic	Yes
EU RoHS Directive	Not applicable, out of EU RoHS legal scope
REACh Regulation	REACh Declaration
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 Again

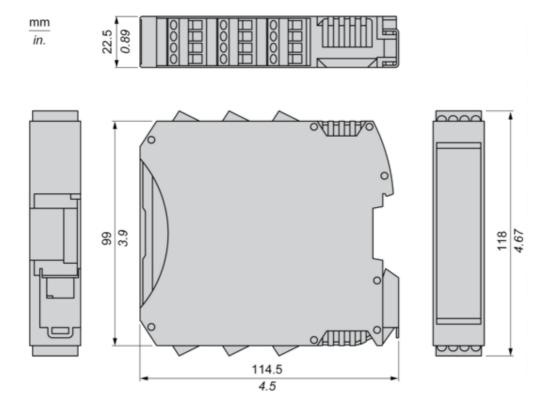
○ Repack and remanufacture	
Take-back	No
WEEE Label	The product must be disposed on European Union markets following specific waste collection and never end up in rubbish bins.

Product data sheet XPSMCMC10804BG

Dimensions Drawings

Dimensions

Spring Terminal



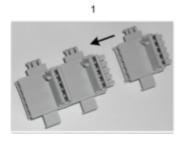
Product data sheet

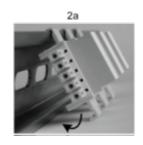
XPSMCMC10804BG

Mounting and Clearance

Mounting Safety Controller CPU with Module(s)

Mount BackPlane Connector on Rail



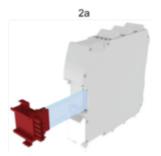




- 1 : Connect as much Backplane Connector as module to be install.
- 2 : Fix the connectors to the rail (Top first).

Mount Safety Controller CPU with Other Module(s)







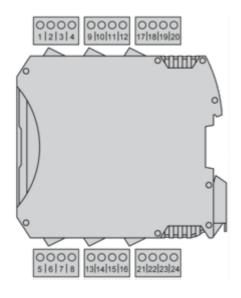
- 1 : Mount controller CPU and modules on rail.
- ${\bf 2}: {\sf Make \ sure \ that \ the \ controller \ CPU \ or \ the \ module(s) \ are \ plugged \ on \ the \ BackPlane \ connector.}$

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Connections and Schema

Wiring

Terminal Designation



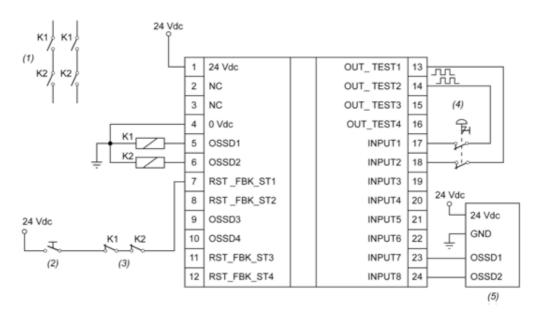
Terminal	Signal	Description
1	24 VDC	24 Vdc power supply
2	NC	-
3	NC	-
4	0 VDC	0 Vdc power supply
5	OSSD1	Safety-related output 1
6	OSSD2	Safety-related output 2
7	DESTADT EDV4/STATUS4	Feedback/Restart 1 for OSSD1
	RESTART_FBK1/ STATUS1	Configurable output 1 for OSSD1
	DECTART FRANCISCO	Feedback/Restart 2 for OSSD2
8	RESTART_FBK2/ STATUS2	Configurable output 2 for OSSD2
9	OSSD3	Safety-related output 3
10	OSSD4	Safety-related output 4
11	DESTADT EDV2/STATUS2	Feedback/Restart 3 for OSSD3
	11 RESTART_FBK3/ STATUS3	Configurable output 3 for OSSD3
12 RESTART_FBK4/ STATUS4	DECTADT EDVA/CTATUCA	Feedback/Restart 4 for OSSD2
	Configurable output 4 for OSSD2	

Product data sheet

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Terminal	Signal	Description
13	OUT_TEST1	Test output for detection of short circuits/cross circuits in input circuits
14	OUT_TEST2	
15	OUT_TEST3	
16	OUT_TEST4	
17	INPUT1	Safety-related input 1
18	INPUT2	Safety-related input 2
19	INPUT3	Safety-related input 3
20	INPUT4	Safety-related input 4
21	INPUT5	Safety-related input 5
22	INPUT6	Safety-related input 6
23	INPUT7	Safety-related input 7
24	INPUT8	Safety-related input 8

Wiring Example



(1): Contactors

(2) : Restart

(3): Feedback

(4): Emergency stop

(5): Light curtain

Image of product / Alternate images

Alternative



