Product data sheet
Characteristics

XPSMCMCP0802
Safety controller, Modicon MCM, 8 inputs 2 outputs, monitors expansion modules, screw



Main

Range of product	Modicon Safety automation
Device short name	XPSMCM
Electrical connection	Screw terminal
Product or component type	Safety controller CPU
[Us] rated supply voltage	24 V - 20...20 % DC
Number of inputs	8 digital for input connection 2 digital for interlock start/restart or external device monitoring
Number of outputs	2 safety outputs OSSD for contactor/drive connection 4 test for line control outputs 2 configurable for 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
Function of module	Emergency stop conforming to ISO 13850 Guard monitoring conforming to EN/ISO 14119 Enabling switch monitoring conforming to IEC 60947-5-1 Light curtain monitoring conforming to IEC 61496-1 Foot switch monitoring conforming to IEC 60947-5-1 Magnetic switch monitoring conforming to EN/ISO 14119 Two-hand control conforming to EN 574 Safety mat monitoring conforming to EN/ISO 14119 Enabling switch monitoring conforming to IEC 61326-1 Muting function of light curtains conforming to IEC 60947-5-1 Counter functions conforming to IEC 61800-5-2 Speed monitoring conforming to IEC 61800-5-2
Backplane connector	Without

Complementary

Synchronisation time between inputs	< 0.5 ms
Power dissipation in W	3 W
Maximum number of I/O expansion module	14 with 128 discrete output(s) for input 14 with 16 discrete output(s) for output
Integrated connection type	Backplane expansion bus USB 2.0 port
Data storage equipment	SD card (optional)
Inductive load	30 MH
Load capacitance	0.82 MF

Safety level	Can reach category 4 conforming to ISO 13849-1 Can reach PL = e conforming to ISO 13849-1 Type 4 conforming to IEC 61496-1 SILCL 3 conforming to IEC 62061
Quality labels	CE
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 1 LED orange with COM marking for communication 1 LED blue with EN marking for master enable 8 LEDs yellow with IN marking for input status 2 LEDs green/red with OUT marking for output status 2 LEDs yellow with RST marking for restart signal 2 LEDs yellow with STATUS marking for output channel
Connections - terminals	6 captive screw terminals, removable terminal block
Cable cross section	0.2…1.5 Mm² - 24 AWG...16 AWG flexible cablewithout cable end 0.2…2.5 Mm² - 24 AWG...14 AWG flexible cablewithout cable end 0.25…1 Mm² - 23 AWG...18 AWG flexible cablewith cable end, without bezel 0.25…2.5 Mm² - 23 AWG...14 AWG flexible cablewith cable end, with bezel 0.25…1.5 Mm² - 23 AWG...16 AWG flexible cablewith cable end, without bezel 0.5…1.5 Mm² - 20 AWG...16 AWG flexible cablewith cable end, with double bezel 0.2…1 Mm² - 24 AWG...18 AWG solid cablewithout cable end 0.2…2.5 Mm² - 24 AWG...14 AWG solid cablewithout cable end
Mounting support	Omega 35 mm DIN rail conforming to EN 50022
Depth	114.5 Mm
Height	99 Mm
Width	22.5 Mm
Net weight	0.25 Kg

Environment

Standards	IEC 61508 ISO 13849-1 IEC 61496-1 IEC 61800-5-1 IEC 62061
Product certifications	cULus[RETURN]RCM[RETURN]TÜV
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 IEC 61800-5-1
Safety reliability data	PFHd = 6.06E-9 1/h DC > 99 % MTTFd < 100 years high
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 610 Susceptibility to electromagnetic fields - test level: 30 V/m (1.4 GHz...2 GHz) conforming to IEC 6
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	16.510 Cm
Package 1 Width	13.462 Cm
Package 1 Length	5.080 Cm
Package 1 Weight	249.476 G

Offer Sustainability

Total lifecycle Carbon footprint	161 kg CO2 eq.
Carbon footprint of the manufacturing phase [A1 to A3]	16.75817652994598
Carbon footprint of the manufacturing phase [A1 to A3]	17 kg CO2 eq.
Carbon footprint of the distribution phase [A4]	0.032691280346649254
Carbon footprint of the distribution phase [A4]	0 kg CO2 eq.
Carbon footprint of the installation phase [A5]	0.16027334243485486
Carbon footprint of the installation phase [A5]	0.2 kg CO2 eq.
Carbon footprint of the use phase [B2, B3, B4, B6]	143.615
REACh free of SVHC	Yes
Carbon footprint of the use phase [B2, B3, B4, B6]	144 kg CO2 eq.
Mercury free	Yes
Sustainable packaging	No
Carbon footprint of the end-of-life phase [C1 to C4]	0.30493559684216776
Carbon footprint of the end-of-life phase [C1 to C4]	0.3 kg CO2 eq.
Total lifecycle Carbon footprint	161
Packaging made with recycled cardboard	No
Packaging without single use plastic	Yes
REACh Regulation	Free of Substances of Very High Concern above the threshold
EU RoHS Directive	Compliant
California proposition 65	WARNING: This product can expose you to chemicals including: Lead and lead compounds, w
PVC free	Yes
Take-back	No
WEEE Label	The product must be disposed on European Union markets following specific waste collection a

Contractual warranty

Warranty (in months)	18

Product Life Status : Commercialised