Product data sheet
Characteristics

XPSMCMRO0004G
expansion module, Modicon MCM, 4 safety relay outputs, with backplane connection, spring



Main

Range of product	Preventa Safety automation
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	4 relay
Discrete output number	8 solid state at 125 mA (diagnostics)
Function of module	Monitoring safety actuators for relay output

Complementary

Maximum 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 category 4 conforming to ISO 13849-1 Can reach PL = e conforming to ISO 13849-1 Can reach SIL 3 conforming to IEC 61508 SILCL 3 conforming to IEC 62061
Quality labels	CE
Output type	Relay, 4 NO circuit(s), 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	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	1 spring clamp terminals, removable terminal block 2 spring clamp terminals, removable terminal block

Cable cross section	0.2…2.5 Mm² - 24 AWG...14 AWG flexible cablewithout cable end 0.25…2.5 Mm² - 23 AWG...14 AWG flexible cablewith cable end, with bezel 0.25…2.5 Mm² - 23 AWG...14 AWG flexible cablewith cable end, without bezel 0.2…2.5 Mm² - 24 AWG...14 AWG solid cablewithout cable end 0.5…1 Mm² - 20 AWG...18 AWG flexible cablewith cable end, with double bezel
Mounting support	Omega 35 mm DIN rail conforming to EN 50022
Width	22.5 Mm
Height	99 Mm
Depth	114.5 Mm
Net weight	0.3 Kg

Environment

Standards	IEC 62061 IEC 61508 ISO 13849-1 IEC 61800-5-1
Product certifications	cULus[RETURN]TÜV[RETURN]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 IEC 61800-5-1
Safety reliability data	B10d = 300000 utilisation category AC-15 230 V, , <3 A conforming to ISO 13849-1 B10d = 750000 utilisation category AC-15 230 V, , <1 A conforming to ISO 13849-1 B10d = 10000000 utilisation category DC-13 24 V, , <2 A conforming to ISO 13849-1
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 for 16 ms (1000 shocks on each axis) conforming to IEC 61496-1
Electrical durability	20000000 Cycles
Mechanical durability	20000000 Cycles
Service life	20 Year(S)

Packing Units

Unit Type of Package 1	PCE
Number of Units in Package 1	1
Package 1 Height	4.6 Cm
Package 1 Width	16.2 Cm
Package 1 Length	12.2 Cm
Package 1 Weight	288.0 G
Unit Type of Package 2	S01
Number of Units in Package 2	6
Package 2 Height	15 Cm
Package 2 Width	15 Cm
Package 2 Length	40 Cm
Package 2 Weight	1.982 Kg

Offer Sustainability

Total lifecycle Carbon footprint	118 kg CO2 eq.
Carbon footprint of the manufacturing phase [A1 to A3]	9.303777411585752
Carbon footprint of the manufacturing phase [A1 to A3]	9 kg CO2 eq.
Carbon footprint of the distribution phase [A4]	0.0431522372924325
Carbon footprint of the distribution phase [A4]	0 kg CO2 eq.
Carbon footprint of the installation phase [A5]	0.27074027126378497

Carbon footprint of the installation phase [A5]	0.3 kg CO2 eq.
Carbon footprint of the use phase [B2, B3, B4, B6]	107.71
REACh free of SVHC	Yes
Carbon footprint of the use phase [B2, B3, B4, B6]	108 kg CO2 eq.
Mercury free	Yes
Sustainable packaging	No
Carbon footprint of the end-of-life phase [C1 to C4]	0.36841424768665226
Carbon footprint of the end-of-life phase [C1 to C4]	0.4 kg CO2 eq.
Total lifecycle Carbon footprint	118
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