Product data sheet
Characteristics

XPSMCMDI1200MT
12 inputs expansion module for safety mats with screw term



Main

Range of product	Preventa Safety automation
Product or component type	Safe input expansion module
Device short name	XPSMCM
Electrical connection	Screw terminal
[Us] rated supply voltage	24 V - 20...20 % DC
Number of inputs	12 digital
Number of outputs	8 test for line control
Discrete input type	PNP
Discrete output type	PNP
Function of module	Safety mat monitoring for discrete input

Complementary

Power consumption in W	3 W
Power dissipation in W	3 W
Integrated connection type	Backplane expansion bus
Number of terminal blocks	6
Connections - terminals	2 captive screw clamp terminals, removable terminal block 1 captive screw clamp terminals, removable terminal block
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
Discrete input voltage	24 V DC
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 12 LEDs yellow with IN marking for input status
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…2.5 Mm² - 23 AWG...14 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	22.5 Mm
Height	99 Mm

Width	114.5 Mm
Net weight	0.25 Kg

Environment

Standards	IEC 62061 IEC 61800-5-1 IEC 61508 ISO 13849-1
Product certifications	cULus[RETURN]TÜV[RETURN]RCM
IP degree of protection	IP20 (enclosure)
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	DC > 99 % MTTFd < 100 years high PFHd = 3.24E-9 1/h
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 61
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	4.2 Cm
Package 1 Width	12.5 Cm
Package 1 Length	16.1 Cm
Package 1 Weight	226.0 G
Unit Type of Package 2	S01
Number of Units in Package 2	6
Package 2 Height	15.0 Cm
Package 2 Width	15.0 Cm
Package 2 Length	40.0 Cm
Package 2 Weight	1.675 Kg

Offer Sustainability

Recyclability potential, in %	2
Total lifecycle Carbon footprint	136 kg CO2 eq.
Carbon footprint of the manufacturing phase [A1 to A3]	8.562904421037445
Carbon footprint of the manufacturing phase [A1 to A3]	9 kg CO2 eq.
Carbon footprint of the distribution phase [A4]	0.06999821870609048
Carbon footprint of the distribution phase [A4]	0.1 kg CO2 eq.
Carbon footprint of the installation phase [A5]	0.19615751385641617
Carbon footprint of the installation phase [A5]	0.2 kg CO2 eq.
Carbon footprint of the use phase [B2, B3, B4, B6]	127.2214464091827
REACh free of SVHC	Yes
Carbon footprint of the use phase [B2, B3, B4, B6]	127 kg CO2 eq.
Mercury free	Yes
Sustainable packaging	No
Carbon footprint of the end-of-life phase [C1 to C4]	0.35023679678470043
Carbon footprint of the end-of-life phase [C1 to C4]	0.4 kg CO2 eq.

Total lifecycle Carbon footprint	136
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, wh
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