



Main

Range of product	Preventa Safety automation
Product or component type	Safe input expansion module
Device short name	XPSMCM
Standards	EN/IEC 61508 EN/IEC 61800-5-1 EN/ISO 13849-1 IEC 62061
Product certifications	CULus TÜV
Quality labels	CE
[Us] rated supply voltage	24 V (- 20...20 %) DC
Number of inputs	8 digital
Discrete input type	PNP
Number of outputs	4 test for line control
Discrete output type	PNP
Discrete input voltage	24 V DC

Complementary

Electrical connection	Screw terminal
Safety level	SILCL 3 conforming to IEC 62061 Can reach SIL 3 conforming to EN/IEC 61508 Can reach PL = e conforming to EN/ISO 13849-1 Can reach category 4 conforming to EN/ISO 13849-1
Function of module	Discrete input monitoring safety dialogue Discrete input monitoring safety detection
Power consumption	<= 3 W
Power dissipation in W	3 W
Integrated connection type	Backplane expansion bus
Number of terminal blocks	4
Connections - terminals	1-wire captive screw clamp terminals, removable terminal block 2-wire captive screw clamp terminals, removable terminal block
Cable cross section	(0.2...2.5 mm ² - AWG 24...AWG 14) solid cable without cable end (0.2...1 mm ² - AWG 24...AWG 18) solid cable without cable end (0.5...1.5 mm ² - AWG 20...AWG 16) flexible cable with cable end, with double bezel (0.25...2.5 mm ² - AWG 23...AWG 14) flexible cable with cable end, without bezel (0.25...2.5 mm ² - AWG 23...AWG 14) flexible cable with cable end, with bezel (0.25...1 mm ² - AWG 23...AWG 18) flexible cable with cable end, without bezel (0.2...2.5 mm ² - AWG 24...AWG 14) flexible cable without cable end (0.2...1.5 mm ² - AWG 24...AWG 16) flexible cable without cable end
IP degree of protection	IP20 for enclosure
[Uimp] rated impulse withstand voltage	4 kV conforming to EN/IEC 61800-5-1
Insulation	250 V AC between power supply and housing conforming to EN/IEC 61800-5-1
Service life	20 yr
Local signalling	8 LEDs yellow with IN marking for input status 2 LEDs orange with ADDR marking for node address 1 LED red with E EX marking for external error 1 LED red with E IN marking for internal error 1 LED green with RUN marking for RUN (status) 1 LED green with PWR marking for power ON
Mounting support	Omega 35 mm DIN rail conforming to EN 50022

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Depth	22.5 mm
Height	99 mm
Width	114.5 mm
Product weight	0.23 kg

Environment

Safety reliability data	MTTFd < 100 years at high DC > 99 % PFHd = 5.75E-9 1/h
Overvoltage category	II
Electromagnetic compatibility	Susceptibility to electromagnetic fields - test level 30 V/m, 1.4 GHz...2 GHz conforming to EN/IEC 61000-4-3 Susceptibility to electromagnetic fields - test level 10 V/m, 80...1000 MHz conforming to EN/IEC 61000-4-3 Electrostatic discharge immunity test - test level 20 kV, on air conforming to EN/IEC 61000-4-2 Electrostatic discharge immunity test - test level 6 kV, on contact conforming to EN/IEC 61000-4-2
Pollution degree	2
Vibration resistance	+/-0.35 mm (f = 10...55 Hz) conforming to EN/IEC 61496-1
Shock resistance	10 gn (duration = 16 ms) shocks : 1000 shocks on each axis EN/IEC 61496-1
Ambient air temperature for operation	-10...55 °C
Ambient air temperature for storage	-20...85 °C
Relative humidity	10...95 %

Offer Sustainability

Sustainable offer status	Green Premium product
RoHS (date code: YYWW)	Compliant - since 1450 - Schneider Electric declaration of conformity
REACH	Reference not containing SVHC above the threshold
Product environmental profile	Available
Product end of life instructions	Available