



### 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	16 digital
Discrete input type	Isolated
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	6
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 <sup>2</sup> - AWG 24...AWG 14) solid cable without cable end (0.2...1 mm <sup>2</sup> - AWG 24...AWG 18) solid cable without cable end (0.5...1.5 mm <sup>2</sup> - AWG 20...AWG 16) flexible cable with cable end, with double bezel (0.25...2.5 mm <sup>2</sup> - AWG 23...AWG 14) flexible cable with cable end, without bezel (0.25...2.5 mm <sup>2</sup> - AWG 23...AWG 14) flexible cable with cable end, with bezel (0.25...1 mm <sup>2</sup> - AWG 23...AWG 18) flexible cable with cable end, without bezel (0.2...2.5 mm <sup>2</sup> - AWG 24...AWG 14) flexible cable without cable end (0.2...1.5 mm <sup>2</sup> - 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	16 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

Depth	22.5 mm
Height	99 mm
Width	114.5 mm
Product weight	0.25 kg

## Environment

Safety reliability data	PFHd = 7.09E-9 1/h MTTFd < 100 years at high DC > 99 %
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 - <a href="#">Schneider Electric declaration of conformity</a>
REACH	Reference not containing SVHC above the threshold
Product environmental profile	Available
Product end of life instructions	Available