



Main

Range of product	Preventa Safety automation
Product or component type	Safety controller CPU
Device short name	XPSMCM
Standards	EN/IEC 61496-1 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	2 digital for interlock start/restart or external device monitoring 8 digital for input connection
Discrete input type	Safety input PNP
Number of outputs	2 configurable for diagnostic connection 4 test for line control outputs 2 safety outputs OSSD for contactor/drive connection
Discrete output type	PNP
Safety level	SILCL 3 conforming to IEC 62061 Type 4 conforming to EN/IEC 61496-1 Can reach PL = e conforming to EN/ISO 13849-1 Can reach category 4 conforming to EN/ISO 13849-1
Discrete input voltage	24 V
Discrete input current	400 mA

Complementary

Electrical connection	Screw terminal
Function of module	Speed monitoring conforming to EN/IEC 61800-5-2 Counter functions conforming to EN/IEC 61800-5-2 Muting function of light curtains conforming to EN/IEC 60947-5-1 Enabling switch monitoring conforming to EN 61326-1 Safety mat monitoring conforming to EN/ISO 14119 Two-hand control conforming to EN 574 Magnetic switch monitoring conforming to EN/ISO 14119 Foot switch monitoring conforming to EN/IEC 60947-5-1 Light curtain monitoring conforming to EN/IEC 61496-1 Enabling switch monitoring conforming to EN/IEC 60947-5-1 Guard monitoring conforming to EN/ISO 14119 Emergency stop conforming to EN/ISO 13850
Synchronisation time between inputs	< 0.5 ms
Power dissipation in W	3 W
Number of I/O expansion module	14, expandable up to 16 output 14, expandable up to 128 input
Integrated connection type	USB 2.0 port Backplane expansion bus
Data storage equipment	SD card (optional)
[Uimp] rated impulse withstand voltage	4 kV conforming to EN/IEC 61800-5-1

Inductive load	30 mH
Load capacitance	0.82 µF
Connections - terminals	1-wire captive screw terminals, removable terminal block 2-wire captive screw 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...1.5 mm ² - AWG 23...AWG 16) 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
Local signalling	2 LEDs yellow with STATUS marking for output channel 2 LEDs yellow with RST marking for restart signal 2 LEDs green/red with OUT marking for output status 8 LEDs yellow with IN marking for input status 1 LED blue with EN marking for master enable 1 LED orange with COM marking for communication 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	114.5 mm
Height	99 mm
Width	22.5 mm
Product weight	0.25 kg

Environment

Discrete output current	400 mA
IP degree of protection	IP20
Safety reliability data	MTTFd < 100 years at high DC > 99 % PFHd = 6.06E-9 1/h
Insulation	250 V AC between power supply and housing conforming to EN/IEC 61800-5-1
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 conforming to EN/IEC 61496-1
Service life	20 yr
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 Download Product Environmental
Product end of life instructions	Available Download End Of Life Manual