Product data sheet
Characteristics

XPSMCMEN0100SC
Speed monitoring 1 Sin/Cos encoder expansion module with screw term

Green Premium™ Product

Main

Range of product	Preventa Safety automation
Product or component type	Safe speed monitoring module
Function of module	Speed monitoring
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
Input frequency	<= 500 kHz for encoder SinCos <= 5 kHz for sensor
Sensor type	Inductive proximity sensor
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 DC

Complementary

Electrical connection	Screw terminal
Power consumption	<= 3 W
Power dissipation in W	3 W
Integrated connection type	Backplane expansion bus
Number of terminal blocks	4
Electrical connection	1 connector RJ45 conforming to EIA/TIA-568-A
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...1 mm² - AWG 24...AWG 18) solid cable without cable end (0.5...1.5 mm² - AWG 20...AWG 16) flexible cable with cable end, with double bezel (0.25...1 mm² - AWG 23...AWG 18) flexible cable with cable end, without bezel (0.2...1.5 mm² - AWG 24...AWG 16) flexible cable without cable end (0.25...2.5 mm² - AWG 23...AWG 14) flexible cable with cable end, without bezel (0.25...2.5 mm² - AWG 23...AWG 14) flexible cable with cable end, with bezel (0.2...2.5 mm² - AWG 24...AWG 14) solid cable without cable end (0.2...2.5 mm² - AWG 24...AWG 14) flexible cable without cable end
[Uimp] rated impulse withstand voltage	4 kV conforming to EN/IEC 61800-5
Insulation	250 V AC between power supply and housing conforming to EN/IEC 61800-5-1
Service life	20 yr
Local signalling	2 LEDs yellow with SH marking for speed monitoring status 2 LEDs yellow with PROX marking for proximity sensors connection status 1 LED yellow with ENC marking for encoder connection 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

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Mounting support	Omega 35 mm DIN rail conforming to EN 50022
Depth	22.5 mm
Height	99 mm
Width	114.5 mm
Product weight	0.28 kg

Environment

IP degree of protection	IP20 for enclosure
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

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