Product data sheet
Characteristics

XCSDMR591L01M12
coded magnetic switch XCSDMR - SIL 3 - 1NC +1NO, NC staggered - M12 connector

Main

Range of product	Preventa Safety detection
Product or component type	Coded magnetic switch
Component name	XCSDMR
Design	Cylindrical
Size	Ø 30 x 38.5 mm
Contacts type and composition	1 NC + 1 NO
Contacts operation	Staggered
Material	Plastic
Electrical connection	Connector on flying lead
Connector type	M12
Cable length	0.15 m
Number of poles	2
Local signalling	1 LED
Approach directions	1 direction
[Ue] rated operational voltage	24 V DC
[Ui] rated insulation voltage	100 V DC

Complementary

[Sa] assured operating distance	8 mm
[Sar] assured tripping distance	20 mm
[Ie] rated operational current	<= 100 A
[Uimp] rated impulse withstand voltage	2.5 kV conforming to EN/IEC 60947-5-1
Resistance across terminals	57 Ohm
Short circuit protection	500 mA external cartridge fuse type gG (gl)
Contacts material	Rhodium
Electrical durability	1200000 cycles
Maximum switching voltage	100 V DC
Switching capacity in mA	5...100 mA
Insulation resistance	1000 MOhm
Breaking capacity	<= 3 VA
Switching frequency	150 Hz
Safety level	Can reach SIL 3 (with the appropriate monitoring system and correctly wired) conforming to EN/IEC 61508 Can reach PL = e (with the appropriate monitoring system and correctly wired) conforming to EN/ISO 13849-1 Can reach category 4 (with the appropriate monitoring system and correctly wired) conforming to EN/ISO 13849-1
Safety reliability data	B10d = 5000000 (value given for a life time of 20 years limited by mechanical or contact wear)
Enclosure material	Thermoplastic PBT
Cable material	PVC
Product weight	0.146 kg

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Environment

Standards	CSA C22-2 No 14 EN 1088 EN/IEC 60204-1 EN/IEC 60947-5-1 EN/ISO 12100 ISO 14119 UL 508
Product certifications	BG CSA UL
Protective treatment	TH
Ambient air temperature for operation	-25...85 °C
Ambient air temperature for storage	-40...85 °C
Vibration resistance	10 gn (f = 10...150 Hz) conforming to IEC 60068-2-6
Shock resistance	30 gn for 11 ms conforming to IEC 60068-2-27
Sensitivity to magnetic fields	>= 0.3 mT
Class of protection against electric shock	Class II conforming to IEC 60536
IP degree of protection	IP67 conforming to IEC 60529

Offer Sustainability

Sustainable offer status	Not Green Premium product
ROHS	Compliant - since 0729 - download declaration of conformity
REACH	Reference not containing SVHC above the threshold