

Product data sheet

XCSDMR5902

Safety coded magnetic switch XCSDMR, 1NC+1NO, staggered

Main

Range of product	Telemecanique Safety switches XCS
Product or component type	Coded magnetic switch
Component name	XCSDMR
Design	Cylindrical
Sensor design	CYLINDRICAL
ETIM classification	ETIM 9 - EC002544 - Magnetic proximity switch
Material	Plastic
Cable material	PVC
Enclosure material	Thermoplastic PBT
Approach directions	1 direction
Number of poles	2
Safety level	Can reach category 4 with the appropriate monitoring system and correctly wired conforming to ISO 13849-1, can reach PL = e with the appropriate monitoring system and correctly wired conforming to ISO 13849-1, can reach SIL 3 with the appropriate monitoring system and correctly wired conforming to IEC 61508
Safety reliability data	B10d = 50000000 value given for a life time of 20 years limited by mechanical or contact wear
[Sa] assured operating distance	8 mm
[Sar] assured tripping distance	20 mm
Diameter	30 mm
Product certifications	CSA UL
Standards	CSA C22.2 No 14 IEC 60204-1 IEC 60947-5-1 ISO 12100 ISO 14119 UL 508
Indivisible sale quantity	1

Complementary

Electrical durability	1200000 cycles
Electrical connection	Pre-cabled
Cable length	2 m
Cable composition	4 x 0.25 mm²

The information provided in this documentation contains general descriptions and/or technical characteristics of the performance of the products contained herein.
This documentation is not intended as a substitute for and is not to be used for determining suitability or reliability of these products for specific user applications.
It is the duty of any such user or integrator to perform the appropriate and complete risk analysis, evaluation and testing of the products with respect to the relevant specific application or use thereof.
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Contacts type and composition	1 NC + 1 NO
Contacts material	Rhodium
Contact operation	Staggered
[Ue] rated operational voltage	24 V DC
Maximum switching voltage	100 V DC
[Uimp] rated impulse withstand voltage	2.5 kV conforming to IEC 60947-5-1
Switching capacity in mA	0.1...100 mA
[Ui] rated insulation voltage	100 V DC
Insulation resistance	1000 MOhm
[Ie] rated operational current	100 mA
Resistance across terminals	10 Ω
Electrical shock protection class	Class II conforming to IEC 61140
Short-circuit protection	500 mA external cartridge fuse type gG (gI)
Switching frequency	150 Hz
Breaking capacity	10 VA
Length	39 mm
Size	Ø 30 x 38.5 mm
Product weight	0.146 kg

Environment

IP degree of protection	IP66 conforming to IEC 60529, IP67 conforming to IEC 60529
Ambient air temperature for operation	-25...85 °C
Ambient air temperature for storage	-40...85 °C
Shock resistance	30 gn for 11 ms conforming to IEC 60068-2-27
Vibration resistance	10 gn (f= 10-150 Hz) conforming to IEC 60068-2-6
Sensitivity to magnetic fields	0.3 mT
Protective treatment	TH

Offer Sustainability

California proposition 65	WARNING: This product can expose you to chemicals including: Diisononyl phthalate (DINP), which is known to the State of California to cause cancer, and Di-isodecyl phthalate (DIDP), which is known to the State of California to cause birth defects or other reproductive harm. For more information go to www.P65Warnings.ca.gov

Warranty

Warranty	18 months

Packing Units

Country of origin	FR (France)
Unit type of package 1	PCE

Number of units in package 1	1
New Package 1 GTIN-13	3666916059517
Package 1 height	4.4 cm
Package 1 width	13 cm
Package 1 length	16.4 cm
Package 1 weight	0.158 kg
Unit type of package 2	S02
Number of units in package 2	20
New Package 2 GTIN 14	13666916059514
Package 2 height	15 cm
Package 2 width	30 cm
Package 2 length	40 cm
Package 2 weight	3.451 kg
Unit type of package 3	S03
Number of units in package 3	50
New Package 3 GTIN 14	23666916059511
Package 3 height	30 cm
Package 3 width	30 cm
Package 3 length	40 cm