

Product data sheet

XCSM4102L1

Safety limit switch XCSM, metal, 2NC+2NO, cable 1 m, roller plunger

Main

Range of product	Telemecanique Safety switches XCS
Product or component type	Safety limit switch
Component name	XCSM
Design	Miniature
Sensor design	Miniature
ETIM classification	ETIM 9 - EC002593 - Position switch with guard locking
Head type	Plunger head
Material	Metal
Body material	Zamak
Head material	Zamak
Fixing mode	By the body
Type of operator	Roller plunger
Switch actuation	By 30° cam
Type of approach	Lateral approach
Number of poles	4
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
Protection technology	Plastic protective cover, secured by 5-lobe socket head safety screw
Product certifications	CSA UL
Standards	CSA C22.2 No 14 EN 1088 IEC 60204-1 IEC 60947-5-1 UL 508
Indivisible sale quantity	1

Complementary

Mechanical durability	10000000 cycles
Minimum force for tripping	7 N

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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Minimum actuation speed	0.01 m/mn
Contact code designation	B300, AC-15 (Ue = 240 V, Ie = 1.5 A) conforming to IEC 60947-5-1, B300, AC-15 (Ue = 240 V, Ie = 1.5 A) conforming to IEC 60947-5-1 appendix A, R300, DC-13 (Ue = 250 V, Ie = 0.1 A) conforming to IEC 60947-5-1, R300, DC-13 (Ue = 250 V, Ie = 0.1 A) conforming to IEC 60947-5-1 appendix A
Repeat accuracy	0.05 mm on the tripping points
Electrical connection	Pre-cabled
Cable length	1 m
Cable composition	9 x 0.34 mm²
Positive opening	With NC contact
Positive opening minimum force	35 N
Contacts type and composition	1 NC + 1 NC + 1 NO + 1 NO
Contact operation	Snap action
[Uimp] rated impulse withstand voltage	4 kV conforming to IEC 60664, 4 kV conforming to IEC 60947-1
[Ui] rated insulation voltage	300 V conforming to UL 508, 400 V (pollution degree 3) conforming to IEC 60947-5-1, 300 V conforming to CSA C22.2 No 14
Resistance across terminals	25 MOhm conforming to IEC 60255-7 category 3
Electrical shock protection class	Class I, class I conforming to IEC 61140
Short-circuit protection	6 A cartridge fuse type gG (gI)
Width	30 mm
Depth	16 mm
Product weight	0.17 kg

Environment

IK degree of protection	IK06 conforming to IEC 62262
IP degree of protection	IP66 conforming to IEC 60529, IP67 conforming to IEC 60529, IP68 conforming to IEC 60529
Ambient air temperature for operation	-25…70 °C
Ambient air temperature for storage	-40…70 °C
Shock resistance	25 gn for 18 ms conforming to IEC 60068-2-27
Vibration resistance	5 gn (f= 10-500 Hz) conforming to IEC 60068-2-6
Protective treatment	TC

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	ID (Indonesia)
Unit type of package 1	PCE
Number of units in package 1	1
New Package 1 GTIN-13	3666916046487
Package 1 height	3 cm
Package 1 width	13 cm
Package 1 length	12 cm
Package 1 weight	0.188 kg
Unit type of package 2	S02
Number of units in package 2	50
New Package 2 GTIN 14	13666916046484
Package 2 height	15 cm
Package 2 width	30 cm
Package 2 length	40 cm
Package 2 weight	10.64 kg
Unit type of package 3	S03
Number of units in package 3	55
New Package 3 GTIN 14	23666916046481
Package 3 height	30 cm
Package 3 width	30 cm
Package 3 length	40 cm
Package 3 weight	11.053 kg