

Product data sheet

Specifications



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

XCSM4102L1

Main

Range of product Telemecanique Safety switches XCS

Product or component type Safety limit switch

Component name XCSM

Design Miniature

Material Metal

Head type Plunger head

Protection technology Plastic protective cover, secured by 5-lobe socket head safety screw

Type of approach Lateral approach

Type of operator Roller plunger

Contacts type and composition 1 NC + 1 NC + 1 NO + 1 NO

Contact operation Snap action

Complementary

Electrical connection Pre-cabled

Cable length 1 m

Cable composition 9 x 0.34 mm²

Switch actuation By 30° cam

Fixing mode By the body

Number of poles 4

Positive opening With NC contact

Mechanical durability 10000000 cycles

Minimum force for tripping 7 N

Positive opening minimum force 35 N

Minimum actuation speed 0.01 m/min

Maximum actuation speed 0.5 m/s

Contact code designation
B300, AC-15 (Ue = 240 V, Ie = 1.5 A) conforming to EN 60947-5-1
B300, AC-15 (Ue = 240 V, Ie = 1.5 A) conforming to EN/IEC 60947-5-1 appendix A
R300, DC-13 (Ue = 250 V, Ie = 0.1 A) conforming to EN 60947-5-1
R300, DC-13 (Ue = 250 V, Ie = 0.1 A) conforming to EN/IEC 60947-5-1 appendix A

[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

[Ui_{imp}] rated impulse withstand voltage	4 kV conforming to IEC 60664 4 kV conforming to IEC 60947-1
Maximum resistance across terminals	25 MOhm conforming to IEC 60255-7 category 3
Short-circuit protection	6 A cartridge fuse type gG (gl)
Repeat accuracy	0.05 mm on the tripping points
Body material	Zamak
Head material	Zamak
Depth	16 mm
Height	70 mm
Width	30 mm
Net weight	0.17 kg

Environment

Standards	EN/IEC 60947-5-1 UL 508 EN/IEC 60204-1 EN 1088 CSA C22.2 No 14
Product certifications	CSA UL
Safety level	Can reach category 4 with the appropriate monitoring system and correctly wired conforming to EN/ISO 13849-1 Can reach PL = e with the appropriate monitoring system and correctly wired conforming to EN/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
Protective treatment	TC
Ambient air temperature for operation	-25...70 °C
Ambient air temperature for storage	-40...70 °C
Vibration resistance	5 gn (f= 10...500 Hz) conforming to IEC 60068-2-6
Shock resistance	25 gn for 18 ms conforming to IEC 60068-2-27
Electrical shock protection class	Class I conforming to NF C 20-030 Class I conforming to EN/IEC 61140
IP degree of protection	IP66 conforming to IEC 60529 IP67 conforming to IEC 60529 IP68 conforming to IEC 60529
IK degree of protection	IK06 conforming to EN 50102

Packing Units

Unit Type of Package 1	PCE
Number of Units in Package 1	1
Package 1 Height	3.0 cm
Package 1 Width	13.0 cm
Package 1 Length	12.0 cm
Package 1 Weight	188.0 g
Unit Type of Package 2	PAL
Number of Units in Package 2	440
Package 2 Height	60.0 cm
Package 2 Width	80.0 cm

Package 2 Length	440.0 cm
Package 2 Weight	84.92 kg
Unit Type of Package 3	S03
Number of Units in Package 3	55
Package 3 Height	30.0 cm
Package 3 Width	30.0 cm
Package 3 Length	40.0 cm
Package 3 Weight	10.925 kg

Offer Sustainability

Sustainable offer status	Green Premium product
REACh Regulation	REACh Declaration
EU RoHS Directive	Pro-active compliance (Product out of EU RoHS legal scope) EU RoHS Declaration
Mercury free	Yes
RoHS exemption information	Yes
Environmental Disclosure	Product Environmental Profile
Circularity Profile	End of Life Information
California proposition 65	WARNING: This product can expose you to chemicals including: Diisobutyl 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

Contractual warranty

Warranty	18 months
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Recommended replacement(s)