

Product data sheet

Specifications



Safety limit switch, Telemecanique Safety switches XCS, plastic, roller plunger, 2NC+1 NO, 1entry tapped M20x1.5

XCSP3902P20

Main

Range of product Telemecanique Safety switches XCS

Product or component type Safety limit switch

Component name XCSP

Design Compact

Material Plastic

Head type Plunger head

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

Type of operator Steel roller plunger

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

Contact operation Snap action

Cable entry 1 entry tapped for M20 x 1.5

Complementary

Electrical connection Terminal

Clamping connection capacity 1 x 0.34...2 x 0.75 mm²

Switch actuation By 30° cam

Number of poles 3

Positive opening With NC contact

Mechanical durability 10000000 cycles

Minimum force for tripping 12 N

Positive opening minimum force 36 N

Maximum actuation speed 0.5 m/s

Contact code designation 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/IEC 60947-5-1 appendix A

[Ithe] conventional enclosed thermal current 6 A

[Ui] rated insulation voltage 300 V conforming to UL 508
400 V (pollution degree 3) conforming to EN/IEC 60947-1
300 V conforming to CSA C22.2 No 14

[Uimp] rated impulse withstand voltage 4 kV conforming to EN/IEC 60947-1
4 kV conforming to IEC 60664

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	0.1 mm on tripping points, 1 million operating cycles for head with end plunger
Body material	Plastic
Head material	Zamak
Enclosure material	Plastic
Depth	35 mm
Height	100 mm
Width	34 mm
Net weight	0.255 kg

Environment

Standards	UL 508 EN/IEC 60947-5-1 EN/IEC 60204-1 EN 1088/ISO 14119 CSA C22.2 No 14
Product certifications	UL CSA
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	25 gn (f= 10...500 Hz) conforming to IEC 60068-2-6
Shock resistance	50 gn for 11 ms conforming to IEC 60068-2-27
Electrical shock protection class	Class II conforming to NF C 20-030 Class II conforming to EN/IEC 61140
IP degree of protection	IP66 conforming to IEC 60529 IP67 conforming to IEC 60529
IK degree of protection	IK04 conforming to EN 50102

Packing Units

Unit Type of Package 1	PCE
Number of Units in Package 1	1
Package 1 Height	3.5 cm
Package 1 Width	5 cm
Package 1 Length	13.2 cm
Package 1 Weight	106 g
Unit Type of Package 2	S01
Number of Units in Package 2	21
Package 2 Height	15 cm
Package 2 Width	15 cm
Package 2 Length	40 cm

Package 2 Weight	2.42 kg
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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)