

XCSP3902P20

safety limit switch - plastic - roller plunger -
2NC+1NO - 1entry tapped M20x1.5



Main

Range of product	Preventa Safety detection
Product or component type	Safety limit switch
Component name	XCSP
Material	Plastic
Design	Compact
Head type	Plunger head
Protection technology	Plastic protective cover, secured by 5-lobe socket head safety screw
Cable entry	1 entry tapped M20 x 1.5
Electrical connection	Terminal
Clamping connection capacity	1 x 0.34...2 x 0.75 mm ²
Type of operator	Steel roller plunger
Switch actuation	By 30° cam
Number of poles	3
Contacts type and composition	1 NC + 1 NC + 1 NO
Maximum actuation speed	0.5 m/s

Complementary

Contacts operation	Snap action
Positive opening	With NC contact
Mechanical durability	10000000 cycles
Minimum force for tripping	12 N
Positive opening minimum force	36 N
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 508 300 V conforming to CSA C22-2 No 14 400 V (degree of pollution: 3) conforming to EN/IEC 60947-1
[Uimp] rated impulse withstand voltage	4 kV conforming to EN/IEC 60947-1 4 kV conforming to IEC 60664
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
Safety level	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 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 10 years limited by mechanical or contact wear)
Body material	Plastic
Head material	Zamak
Enclosure material	Plastic
Product weight	0.255 kg

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Environment

Standards	CSA C22-2 No 14 EN/IEC 60204-1 EN/IEC 60947-5-1 EN 1088/ISO 14119 UL 508
Product certifications	CSA UL
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
Class of protection against electric shock	Class II conforming to IEC 6140 Class II conforming to NF C 20-030
IP degree of protection	IP66 conforming to IEC 60529 IP67 conforming to IEC 60529
IK degree of protection	IK04 conforming to EN 50102
RoHS EUR conformity date	4Q2009
RoHS EUR status	Will be compliant