Product datasheet
Characteristics

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
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
Contacts operation	Snap action
Cable entry	1 entry tapped 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	400 V (degree of pollution: 3) conforming to EN/IEC 60947-1 300 V conforming to UL 508 300 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
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
Product weight	0.255 kg

Environment

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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standards	EN 1088/ISO 14119 EN/IEC 60204-1 EN/IEC 60947-5-1 UL 508 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	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

Offer Sustainability

Sustainable offer status	Green Premium product
RoHS (date code: YYWW)	Compliant - since 1103 - Schneider Electric declaration of conformity
REACh	Reference not containing SVHC above the threshold

Contractual warranty

Warranty period	18 months