

Product data sheet

Specifications



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

XCSP3902P20

Main

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| 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

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| 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 |

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| 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

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| 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

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| 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 |

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| Package 2 Weight | 2.42 kg |
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Offer Sustainability

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| 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: 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 |

Contractual warranty

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| Warranty | 18 months |
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Recommended replacement(s)