Product data sheet

Characteristics

**XCSD3902P20**
safety limit switch - metal - roller plunger - 2NC +1NO - 1entry tapped M20 x 1.5

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**Main**

Range of product
Preventa Safety detection

Product or component type
Safety limit switch

Component name
XCSD

Design
Compact

Material
Metal

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

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**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, le = 1.5 A) conforming to EN/IEC 60947-5-1 appendix A

R300, DC-13 (Ue = 250 V, le = 0.1 A) conforming to EN/IEC 60947-5-1 appendix A

[the] 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

Disclaimer: 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.
<table>
<thead>
<tr>
<th>Specification</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Conforming to</td>
<td>CSA C22.2 No 14</td>
</tr>
<tr>
<td>300 V impulses</td>
<td>rated withstand voltage</td>
</tr>
<tr>
<td>[Uimp] rated impulse withstand voltage</td>
<td>EN/IEC 60947-1 4 kV</td>
</tr>
<tr>
<td></td>
<td>IEC 60664 4 kV</td>
</tr>
<tr>
<td>Maximum resistance across terminals</td>
<td>25 MOhm conforming to IEC 60255-7 category 3</td>
</tr>
<tr>
<td>Short-circuit protection</td>
<td>6 A cartridge fuse type gG (gl)</td>
</tr>
<tr>
<td>Repeat accuracy</td>
<td>0.1 mm on tripping points, 1 million operating cycles for head with end plunger</td>
</tr>
<tr>
<td>Body material</td>
<td>Zamak</td>
</tr>
<tr>
<td>Head material</td>
<td>Zamak</td>
</tr>
<tr>
<td>Enclosure material</td>
<td>Plastic</td>
</tr>
<tr>
<td>Depth</td>
<td>35 mm</td>
</tr>
<tr>
<td>Height</td>
<td>100 mm</td>
</tr>
<tr>
<td>Width</td>
<td>34 mm</td>
</tr>
<tr>
<td>Net weight</td>
<td>0.255 kg</td>
</tr>
</tbody>
</table>

**Environment**

**Standards**

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

**IK degree of protection**

- IK06 conforming to EN 50102

**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

**Contractual warranty**

**Warranty**

- 18 months