Product data sheet

XCKJ105H7

limit switch XCKJ - rotary head w/o op. lever - 1NC+1NO - snap action - 1/2NPT

Main

Range of product: OsiSense XC
Series name: Standard format
Product or component type: Limit switch
Device short name: XCKJ
Sensor design: -
Body type: Fixed
Head type: Rotary head
Material: Metal
Body material: Zamak
Head material: Zamak
Fixing mode: By the body
Movement of operating head: Rotary
Type of operator: Spring return without operating lever
Type of approach: Lateral approach, 1 or 2 programmable direction
Cable entry: 1 entry tapped for 1/2" NPT cable gland
Number of poles: 2
Contacts type and composition: 1 NC + 1 NO
Contact operation: Snap action

Complementary

Electrical connection: Screw-clamp terminals, clamping capacity: 1 x 0.34...2 x 1.5 mm²
Contacts insulation form: Zb
Number of steps: 1
Positive opening: With
Positive opening minimum torque: 0.5 N.M
Minimum torque for tripping: 0.25 N.M
[te] rated operational current: 3 A at 240 V, AC-15, A300 conforming to EN/IEC 60947-5-1 appendix A
[the] conventional enclosed thermal current: 10 A
[Ui] rated insulation voltage: 300 V conforming to UL 508
500 V (pollution degree 3) conforming to IEC 60947-1
300 V conforming to CSA C22.2 No 14
Maximum resistance across terminals: 25 MOhm conforming to IEC 60255-7 category 3
[Uimp] rated impulse withstand voltage: 6 KV IEC 60664
6 KV IEC 60947-1
Short-circuit protection: 10 A cartridge fuse, type gG
Electrical durability: 5000000 Cycles, DC-13, inductive load type, 120 V, 4 W, operating rate <60 cyc/ mn, load factor: 0.5 conforming to IEC 60947-5-1 appendix C
5000000 Cycles, DC-13, inductive load type, 24 V, 10 W, operating rate <60 cyc/ mn, load factor: 0.5 conforming to IEC 60947-5-1 appendix C
5000000 Cycles, DC-13, inductive load type, 48 V, 7 W, operating rate <60 cyc/ mn, load factor: 0.5 conforming to IEC 60947-5-1 appendix C
Mechanical durability: 30000000 Cycles
Width: 40 Mm
Height: 77 Mm
<table>
<thead>
<tr>
<th><strong>Depth</strong></th>
<th>44 Mm</th>
</tr>
</thead>
</table>
| **Terminals description ISO n°1** | (21-22)NC  
(13-14)NO |

**Environment**

<table>
<thead>
<tr>
<th><strong>Shock resistance</strong></th>
<th>50 gn for 11 ms conforming to IEC 60068-2-27</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Vibration resistance</strong></td>
<td>25 gn (f= 10…500 Hz) conforming to IEC 60068-2-6</td>
</tr>
<tr>
<td><strong>IP degree of protection</strong></td>
<td>IP66 conforming to IEC 60529</td>
</tr>
<tr>
<td><strong>IK degree of protection</strong></td>
<td>IK07 conforming to EN 50102</td>
</tr>
</tbody>
</table>
| **Overvoltage category** | Class I conforming to IEC 61140  
Class I conforming to NF C 20-030 |
| **Ambient air temperature for operation** | -25…70 °C |
| **Ambient air temperature for storage** | -40…70 °C |
| **Protective treatment** | TC |
| **Product certifications** | CCC  
UL  
CSA |
| **Standards** | EN 60947-5-1  
IEC 60204-1  
CSA C22.2 No 14  
IEC 60947-5-1  
EN 60204-1  
CENELEC EN 50041  
UL 508 |

**Offer Sustainability**

<table>
<thead>
<tr>
<th><strong>Sustainable offer status</strong></th>
<th>Green Premium product</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>EU RoHS Directive</strong></td>
<td>Pro-active compliance (Product out of EU RoHS legal scope) <a href="#">EU RoHS Declaration</a></td>
</tr>
<tr>
<td><strong>Mercury free</strong></td>
<td>Yes</td>
</tr>
<tr>
<td><strong>RoHS exemption information</strong></td>
<td>Yes</td>
</tr>
<tr>
<td><strong>Environmental Disclosure</strong></td>
<td><a href="#">Product Environmental Profile</a></td>
</tr>
</tbody>
</table>

**Contractual warranty**

| **Warranty** | 18 months |
Dimensions

(1) 1 tapped entry 1/2” NPT
Ø: 2 elongated holes Ø 5.3 x 7.3.
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Mounting and Clearance

Mounting with Cable Entry

Position of Cable Gland

(1) Recommended
(2) To be avoided

Mounting with Rotary Heads and Levers

Type of Cam

(1) Recommended
(2) To be avoided

Setting-up with Lever Head

(1) 5° steps throughout 360° / Tightening torque (Min : 1) (Max : 1.5)
(2) 45° steps throughout 360° / Tightening torque (Min : 1) (Max : 1.5)
(a) Tightening torque (Min : 1) (Max : 1.5)

Setting-up with Head ZCKE05
Direction of Actuation Programming
Product data sheet

Connections and Schema

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Wiring Diagram

2-pole NC + NO Snap Action
Characteristics of Actuation

Switch Actuation on End

Functionnal Diagram

(1) Closed
(2) Open
(3) Tripping
(4) Resetting