

Limit switch, Limit switches XC Standard, XCKM, thermoplastic roller lever, 1NC+1 NO, snap action



## Main

|                               |                                          |
|-------------------------------|------------------------------------------|
| Range of product              | Telemecanique Limit switches XC Standard |
| Series name                   | Standard format                          |
| Product or component type     | Limit switch                             |
| Device short name             | XCKL                                     |
| Body type                     | Fixed                                    |
| Head type                     | Rotary head                              |
| Material                      | Metal                                    |
| Body material                 | Zamak                                    |
| Fixing mode                   | By the body                              |
| Movement of operating head    | Rotary                                   |
| Type of operator              | Spring return roller lever thermoplastic |
| Type of approach              | Lateral approach, 2 directions           |
| Number of poles               | 2                                        |
| Contacts type and composition | 1 NC + 1 NO                              |
| Contact operation             | Snap action                              |

## Complementary

|                                                          |                                                                                                                                                                                                                                                                                                                                                                                                                                       |
|----------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Switch actuation                                         | By 30° cam                                                                                                                                                                                                                                                                                                                                                                                                                            |
| Electrical connection                                    | Screw-clamp terminals, clamping capacity: 1 x 0.34...2 x 1.5 mm <sup>2</sup>                                                                                                                                                                                                                                                                                                                                                          |
| Contacts insulation form                                 | Zb                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| Number of steps                                          | 1                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| Positive opening                                         | With                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| Positive opening minimum torque                          | 0.25 N.m                                                                                                                                                                                                                                                                                                                                                                                                                              |
| Minimum torque for tripping                              | 0.1 N.m                                                                                                                                                                                                                                                                                                                                                                                                                               |
| Minimum actuation speed                                  | 0.01 m/min                                                                                                                                                                                                                                                                                                                                                                                                                            |
| Maximum actuation speed                                  | 1.5 m/s                                                                                                                                                                                                                                                                                                                                                                                                                               |
| Contact code designation                                 | A300, AC-15 (U <sub>e</sub> = 240 V), I <sub>e</sub> = 3 A conforming to EN/IEC 60947-5-1 appendix A<br>Q300, DC-13 (U <sub>e</sub> = 250 V), I <sub>e</sub> = 0.27 A conforming to EN/IEC 60947-5-1 appendix A                                                                                                                                                                                                                       |
| [I <sub>th</sub> ] conventional enclosed thermal current | 10 A AC                                                                                                                                                                                                                                                                                                                                                                                                                               |
| [U <sub>i</sub> ] rated insulation voltage               | 300 V conforming to UL 508<br>500 V (pollution degree 3) conforming to IEC 60947-1<br>300 V conforming to CSA C22.2 No 14                                                                                                                                                                                                                                                                                                             |
| Maximum resistance across terminals                      | 25 MOhm conforming to IEC 60255-7 category 3                                                                                                                                                                                                                                                                                                                                                                                          |
| [U <sub>imp</sub> ] rated impulse withstand voltage      | 6 KV conforming to IEC 60664<br>6 kV conforming to 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<br>5000000 Cycles, DC-13, inductive load type, 24 V, 7 W, operating rate <60 cyc/mn, load factor: 0.5 conforming to IEC 60947-5-1 appendix C<br>5000000 cycles, DC-13, inductive load type, 48 V, 10 W, operating rate <60 cyc/mn, load factor: 0.5 conforming to IEC 60947-5-1 appendix C |
| Mechanical durability                                    | 15000000 cycles                                                                                                                                                                                                                                                                                                                                                                                                                       |
| Width                                                    | 52 mm                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| Height                                                   | 72 mm                                                                                                                                                                                                                                                                                                                                                                                                                                 |

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|                               |                        |
|-------------------------------|------------------------|
| Depth                         | 30 mm                  |
| Terminals description ISO n°1 | (21-22)NC<br>(13-14)NO |

## Environment

|                                       |                                                                                         |
|---------------------------------------|-----------------------------------------------------------------------------------------|
| Shock resistance                      | 50 gn for 11 ms conforming to EN/IEC 60068-2-27                                         |
| Vibration resistance                  | 25 gn (f= 10...500 Hz) conforming to EN/IEC 60068-2-6                                   |
| IP degree of protection               | IP66 conforming to EN/IEC 60529                                                         |
| IK degree of protection               | IK05 conforming to EN 50102                                                             |
| Electrical shock protection class     | Class I conforming to IEC 61140<br>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                | UL[RETURN]CSA                                                                           |
| Standards                             | IEC 60204-1<br>CSA C22.2 No 14<br>EN 60204-1<br>UL 508<br>EN 60947-5-1<br>IEC 60947-5-1 |

## Packing Units

|                              |         |
|------------------------------|---------|
| Unit Type of Package 1       | PCE     |
| Number of Units in Package 1 | 1       |
| Package 1 Height             | 9.5 cm  |
| Package 1 Width              | 6.4 cm  |
| Package 1 Length             | 3.2 cm  |
| Package 1 Weight             | 245.0 g |

## Offer Sustainability

|                                            |                                                                                                                                                                                                                                                                                                                                                                                   |
|--------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Circularity Profile                        | No need of specific recycling operations                                                                                                                                                                                                                                                                                                                                          |
| 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 <a href="http://www.P65Warnings.ca.gov">www.P65Warnings.ca.gov</a> |
| For all Reach Rohs enquiries contact us at | <a href="mailto:sustainability@tesensors.com">sustainability@tesensors.com</a>                                                                                                                                                                                                                                                                                                    |