

# Product data sheet

Specifications



Limit switch, Limit switches XC Standard, XCKN, thermoplastic plastic roller lever plung. Hor, 1NC +1 NO, snap, Pg11

XCKN2121G11

## Main

|                               |  |
|-------------------------------|--|
| Range of product              | Telemecanique Limit switches XC Standard         |
| Series name                   | Standard format                                  |
| Product or component type     | Limit switch                                     |
| Device short name             | XCKN   |
| Sensor design                 | Compact form E                                   |
| Body type                     | Fixed  |
| Head type                     | Plunger head                                     |
| Material                      | Plastic  |
| Body material                 | Plastic  |
| Head material                 | Plastic  |
| Fixing mode                   | By the body                                      |
| Movement of operating head    | Linear   |
| Type of operator              | Spring return roller lever plunger thermoplastic |
| Type of approach              | Lateral approach, 1 direction                    |
| Cable entry                   | 1 entry tapped for Pg 11 cable gland             |
| 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 1 x 0.34...2 x 1.5 mm <sup>2</sup>  |
| Contacts insulation form       | Zb  |
| Positive opening               | With  |
| Positive opening minimum force | 10 N  |
| Minimum force for tripping     | 6 N   |
| Maximum actuation speed        | 3.28 ft/s (1 m/s)   |
| Contact code designation       | A300, AC-15 (U <sub>e</sub> = 240 V), I <sub>e</sub> = 3 A 10 A EN/IEC 60947-5-1 appendix A<br>R300, DC-13 (U <sub>e</sub> = 250 V), I <sub>e</sub> = 0.1 A EN/IEC 60947-5-1 appendix A |
| [Ui] rated insulation voltage  | 300 VUL 508   |

500 V 3)IEC 60947-1  
300 VCSA C22.2 No 14

|   |   |
|---|---|
| <b>[Uimp] rated impulse withstand voltage</b> | 6 kV IEC 60664<br>6 kV IEC 60947-1  |
| <b>Short-circuit protection</b>               | 10 A cartridge fuse gG  |
| <b>Electrical durability</b>                  | 5000000 cycles, DC-13, 120 V, 4 W 60 cyc/mn 0.5 IEC 60947-5-1 appendix C<br>5000000 cycles, DC-13, 24 V, 10 W 60 cyc/mn 0.5 IEC 60947-5-1 appendix C<br>5000000 cycles, DC-13, 48 V, 7 W 60 cyc/mn 0.5 IEC 60947-5-1 appendix C |
| <b>Mechanical durability</b>                  | 10000000 cycles   |
| <b>Width</b>                                  | 1.18 in (30 mm)   |
| <b>Height</b>                                 | 3.70 in (94 mm)   |
| <b>Depth</b>                                  | 1.18 in (30 mm)   |
| <b>Net weight</b>                             | 0.32 lb(US) (0.145 kg)  |
| <b>Terminals description ISO n°1</b>          | (13-14)NO<br>(21-22)NC  |

## Environment

|  |   |
|--|---|
| <b>Shock resistance</b>                      | 45 gn 11 ms IEC 60068-2-27  |
| <b>Vibration resistance</b>                  | 25 gn 10...500 Hz)IEC 60068-2-6   |
| <b>IP degree of protection</b>               | IP65 IEC 60529  |
| <b>IK degree of protection</b>               | IK04 EN 50102   |
| <b>Overvoltage category</b>                  | Class II IEC 61140<br>Class II NF C 20-030  |
| <b>Ambient air temperature for operation</b> | -13...158 °F (-25...70 °C)  |
| <b>Ambient air temperature for storage</b>   | -40...158 °F (-40...70 °C)  |
| <b>Protective treatment</b>                  | TC  |
| <b>Product certifications</b>                | UL<br>CCC<br>CSA  |
| <b>Standards</b>                             | EN 60947-5-1<br>CSA C22.2 No 14<br>EN 60204-1<br>IEC 60204-1<br>UL 508<br>IEC 60947-5-1 |

## Packing Units

|                                     |                        |
|-------------------------------------|------------------------|
| <b>Unit Type of Package 1</b>       | PCE                    |
| <b>Number of Units in Package 1</b> | 1                      |
| <b>Package 1 Height</b>             | 4.00 in (10.16 cm)     |
| <b>Package 1 Width</b>              | 0.90 in (2.286 cm)     |
| <b>Package 1 Length</b>             | 1.20 in (3.048 cm)     |
| <b>Package 1 Weight</b>             | 1.92 oz (54.432 g)     |
| <b>Unit Type of Package 2</b>       | CAR                    |
| <b>Number of Units in Package 2</b> | 20                     |
| <b>Package 2 Height</b>             | 4.33 in (11 cm)        |
| <b>Package 2 Width</b>              | 5.04 in (12.8 cm)      |
| <b>Package 2 Length</b>             | 6.61 in (16.8 cm)      |
| <b>Package 2 Weight</b>             | 3.17 lb(US) (1.438 kg) |
| <b>Unit Type of Package 3</b>       | S02                    |

|                                     |                         |
|-------------------------------------|-------------------------|
| <b>Number of Units in Package 3</b> | 80                      |
| <b>Package 3 Height</b>             | 5.91 in (15 cm)         |
| <b>Package 3 Width</b>              | 11.81 in (30 cm)        |
| <b>Package 3 Length</b>             | 15.75 in (40 cm)        |
| <b>Package 3 Weight</b>             | 13.68 lb(US) (6.207 kg) |

## Offer Sustainability

|                                   |   |
|-----------------------------------|---|
| <b>Sustainable offer status</b>   | Green Premium product   |
| <b>REACH Regulation</b>           | <a href="#">REACH Declaration</a>   |
| <b>EU RoHS Directive</b>          | Pro-active compliance (Product out of EU RoHS legal scope)<br><a href="#">EU RoHS Declaration</a> |
| <b>Mercury free</b>               | Yes   |
| <b>RoHS exemption information</b> | <a href="#">Yes</a>   |
| <b>Environmental Disclosure</b>   | <a href="#">Product Environmental Profile</a>   |

## Contractual warranty

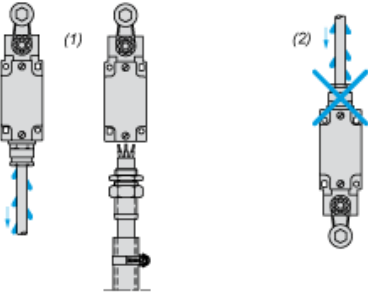
|                 |           |
|-----------------|-----------|
| <b>Warranty</b> | 18 months |
|-----------------|-----------|



**Mounting with Cable Entry**

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**Position of Cable Gland**

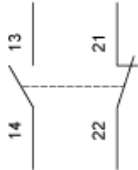


- (1) Recommended
- (2) To be avoided

**Wiring Diagram**

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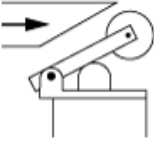
**2-pole NC + NO Snap Action**



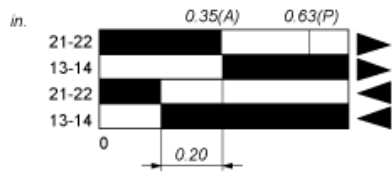
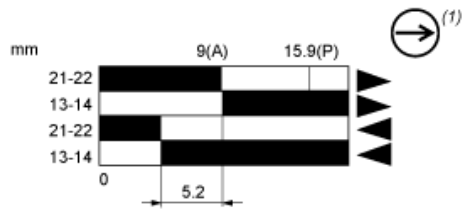
**Characteristics of Actuation**

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**Switch Actuation by 30° Cam**



**Functionnal Diagram**



- (2)
- (3)
- ▶ (4)
- ◀ (5)

- (P) Positive opening point
- (A) Cam displacement
- (1) NC contact with positive opening operation
- (2) Closed
- (3) Open
- (4) Tripping
- (5) Resetting

**Recommended replacement(s)**