

# Product data sheet

# XCKN2108P20

Limit switch XCKN, spring rod lever, 1NC+1NO, snap action, nitrile boot, M20 cable entry

## Main

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|---|---|
| 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 |
| Device presentation | Complete product |
| ETIM classification | ETIM 9 - EC000030 - End switch |
| Body type | Fixed |
| Head type | Multi-directional head |
| Material | Plastic |
| Body material | Plastic |
| Head material | Plastic |
| Fixing mode | By the body |
| Movement of operating head | Multi-directional |
| Type of operator | Spring return spring rod |
| Switch actuation | By any moving part |
| Type of approach | Multi-directional approach |
| Number of poles | 2 |
| Product certifications | CCC<br>CSA<br>UL |
| Standards | CSA C22.2 No 14<br>IEC 60204-1<br>IEC 60947-5-1<br>UL 508 |
| Indivisible sale quantity | 20 |

## Complementary

| | |
|---|---|
| Mechanical durability | 5000000 cycles |
| Minimum torque for tripping | 0.13 N.m |
| Maximum actuation speed | 1 m/s |
| Cable entry | 1 entry tapped for M20 x 1.5 cable gland, cable outer diameter: 7-13 mm |

The information provided in this documentation contains general descriptions and/or technical characteristics of the performance of the products contained herein.
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.
It is the duty of any such user or integrator to perform the appropriate and complete risk analysis, evaluation and testing of the products with respect to the relevant specific application or use thereof.
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| Contact code designation | A300, AC-15 (Ue = 240 V), Ie = 3 A, Ithe = 10 A conforming to IEC 60947-5-1 appendix A, R300, DC-13 (Ue = 250 V), Ie = 0.1 A conforming to IEC 60947-5-1 appendix A |
| Electrical durability | 5000000 cycles, DC-13, 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, 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, 48 V, 7 W, operating rate <60 cyc/mn, load factor: 0.5 conforming to IEC 60947-5-1 appendix C |
| Electrical connection | Screw-clamp terminals, clamping capacity: 1 x 0.34...2 x 1.5 mm² |
| Positive opening | Without |
| Contacts insulation form | Zb |
| Contacts type and composition | 1 NC + 1 NO |
| Terminals description ISO n°1 | (13-14)NO<br>(21-22)NC |
| Contact operation | Snap action |
| [Uimp] rated impulse withstand voltage | 6 kV conforming to IEC 60664, 6 kV conforming to IEC 60947-1 |
| [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 |
| Overvoltage category | Class II conforming to IEC 61140, class II conforming to NF C 20-030 |
| Short-circuit protection | 10 A cartridge fuse, type gG |
| Width | 30 mm |
| Depth | 30 mm |
| Product weight | 0.175 kg |

## Environment

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|---|---|
| IK degree of protection | IK04 conforming to IEC 62262 |
| IP degree of protection | IP65 conforming to IEC 60529 |
| Ambient air temperature for operation | -25...70 °C |
| Ambient air temperature for storage | -40...70 °C |
| Shock resistance | 10 gn for 11 ms conforming to IEC 60068-2-27 |
| Vibration resistance | 25 gn (f= 10-500 Hz) conforming to IEC 60068-2-6 |
| Protective treatment | TC |

## Offer Sustainability

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| 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 |

## Warranty

| | |
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| Warranty | 18 months |

## Packing Units

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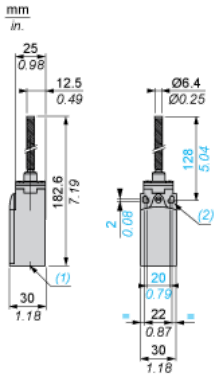
|---|---|
| Country of origin | ID (Indonesia) |
| Unit type of package 1 | PCE |

| | |
|---|---|
| Number of units in package 1 | 1 |
| New Package 1 GTIN-13 | 3666916055380 |
| Package 1 height | 11 cm |
| Package 1 width | 16 cm |
| Package 1 length | 31 cm |
| Package 1 weight | 0.085 kg |
| Unit type of package 2 | S03 |
| Number of units in package 2 | 60 |
| New Package 2 GTIN 14 | 13666916055387 |
| Package 2 height | 30 cm |
| Package 2 width | 30 cm |
| Package 2 length | 40 cm |
| Package 2 weight | 16.96 kg |
| Unit type of package 3 | P06 |
| Number of units in package 3 | 480 |
| New Package 3 GTIN 14 | 23666916055384 |
| Package 3 height | 70 cm |
| Package 3 width | 60 cm |
| Package 3 length | 80 cm |
| Package 3 weight | 215.04 kg |

## Technical Drawings

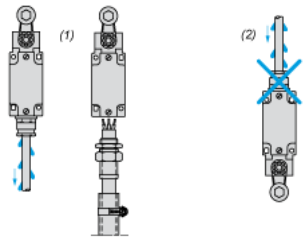
### Dimensions




- (1) 1 tapped entry for M20 x 1.5
- (2) Ø: 2 elongated holes Ø 4.3 x 6.3 on 22 mm centres, 2 holes Ø 4.3 on 20 mm centres.

## Mounting with Cable Entry

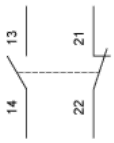
### Position of Cable Gland




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

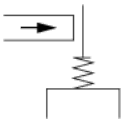
## Wiring Diagram

### 2-pole NC + NO Snap Action

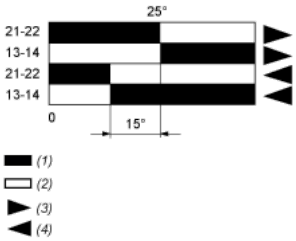



## Characteristics of Actuation

### Switch Actuation by Any Moving Part



## Functionnal Diagram




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