

# XCKN2545P20

Limit switch, Limit switches XC Standard, XCKN, thermoplastic plastic roller lever var.length, 1NC+1 NO, slow, M20



## 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                                                              |
| Body type                     | Fixed                                                                |
| Head type                     | Rotary head                                                          |
| Material                      | Plastic                                                              |
| Body Material                 | Plastic                                                              |
| Head material                 | Plastic                                                              |
| Fixing Mode                   | By the body                                                          |
| Movement of operating head    | Rotary                                                               |
| Type of operator              | Spring return roller lever thermoplastic variable length             |
| Type of approach              | Lateral approach, 2 directions                                       |
| Cable entry                   | 1 entry tapped for M20 x 1.5 cable gland 0.28... 0.51 in (7...13 mm) |
| Number of poles               | 2                                                                    |
| Contacts type and composition | 1 NC + 1 NO                                                          |
| Contact operation             | Slow-break, break before make                                        |

## Complementary

|                                        |                                                                                                                                                                                                                                 |
|----------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Switch actuation                       | By 30° cam                                                                                                                                                                                                                      |
| Electrical connection                  | Screw-clamp terminals 1 x 0.5...2 x 2.5 mm <sup>2</sup>                                                                                                                                                                         |
| Contacts insulation form               | Zb                                                                                                                                                                                                                              |
| Positive opening                       | With                                                                                                                                                                                                                            |
| Positive opening minimum torque        | 1.33 lbf.in (0.15 N.m)                                                                                                                                                                                                          |
| Minimum torque for tripping            | 0.89 lbf.in (0.1 N.m)                                                                                                                                                                                                           |
| Maximum actuation speed                | 4.92 ft/s (1.5 m/s)                                                                                                                                                                                                             |
| Contact code designation               | A300, AC-15 (Ue = 240 V), Ie = 3 A 10 A EN/IEC 60947-5-1 appendix A<br>R300, DC-13 (Ue = 250 V), Ie = 0.1 A EN/IEC 60947-5-1 appendix A                                                                                         |
| [Ui] rated insulation voltage          | 300 VUL 508<br>500 V 3)IEC 60947-1<br>300 VCSA C22.2 No 14                                                                                                                                                                      |
| [Uimp] rated impulse withstand voltage | 6 kV IEC 60664<br>6 kV IEC 60947-1                                                                                                                                                                                              |
| Short-circuit protection               | 10 A cartridge fuse gG                                                                                                                                                                                                          |
| Electrical durability                  | 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 |
| Mechanical durability                  | 10000000 cycles                                                                                                                                                                                                                 |
| Width                                  | 1.18 in (30 mm)                                                                                                                                                                                                                 |
| Height                                 | 4.25...6.18 in (108...157 mm)                                                                                                                                                                                                   |
| Depth                                  | 1.65 in (42 mm)                                                                                                                                                                                                                 |

|                               |                        |
|-------------------------------|------------------------|
| Net Weight                    | 0.40 lb(US) (0.18 kg)  |
| Terminals description ISO n°1 | (21-22)NC<br>(13-14)NO |

## Environment

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

## Ordering and shipping details

|                       |                                 |
|-----------------------|---------------------------------|
| Category              | 22435 - LIMIT SWITCHES,TYPE XCM |
| Discount Schedule     | T                               |
| GTIN                  | 3389110546682                   |
| Nbr. of units in pkg. | 1                               |
| Package weight(Lbs)   | 3.53 oz (100 g)                 |
| Returnability         | No                              |
| Country of origin     | ID                              |

## Packing Units

|                              |                         |
|------------------------------|-------------------------|
| Unit Type of Package 1       | PCE                     |
| Package 1 Height             | 4.33 in (11 cm)         |
| Package 1 width              | 6.30 in (16 cm)         |
| Package 1 Length             | 12.13 in (30.8 cm)      |
| Unit Type of Package 2       | BB1                     |
| Number of Units in Package 2 | 20                      |
| Package 2 Weight             | 4.41 lb(US) (2 kg)      |
| Package 2 Height             | 4.33 in (11 cm)         |
| Package 2 width              | 6.30 in (16 cm)         |
| Package 2 Length             | 12.13 in (30.8 cm)      |
| Unit Type of Package 3       | S03                     |
| Number of Units in Package 3 | 60                      |
| Package 3 Weight             | 14.92 lb(US) (6.767 kg) |
| Package 3 Height             | 11.81 in (30 cm)        |
| Package 3 width              | 11.81 in (30 cm)        |
| Package 3 Length             | 15.75 in (40 cm)        |

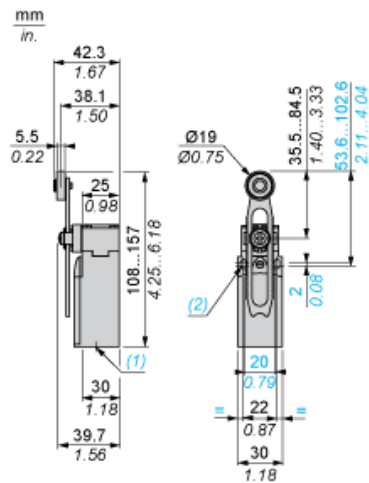
## Offer Sustainability

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

## Contractual warranty

|          |           |
|----------|-----------|
| Warranty | 18 months |
|----------|-----------|

## Dimensions



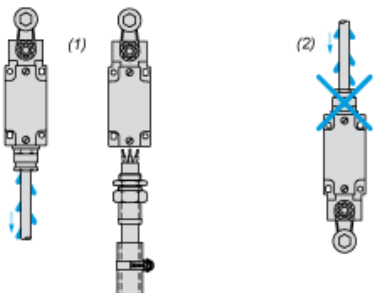
- (1) 1 tapped entry for M20 x 1.5
- (2) Ø: 2 elongated holes Ø 4.3 x 6.3 on 22 mm centres, 2 holes Ø 4.3 on 20 mm centres.

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## Mounting with Cable Entry

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### Position of Cable Gland



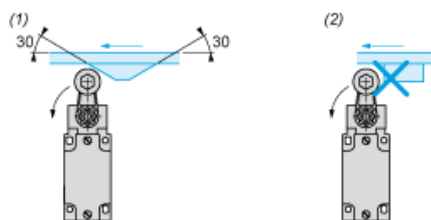
- (1) Recommended
- (2) To be avoided

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## Mounting with Rotary Heads and Levers

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### Type of Cam



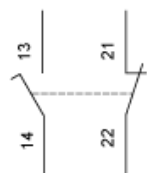
- (1) Recommended
- (2) To be avoided

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## Wiring Diagram

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2-pole N/C + N/O Break before Make, Slow Break

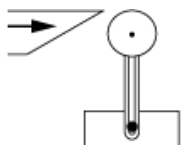


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## Characteristics of Actuation

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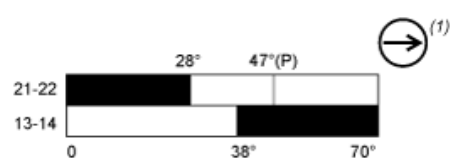
### Switch Actuation by 30° Cam



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## Functionnal Diagram

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■ (2)

□ (3)

- (P) Positive opening point  
(1) NC contact with positive opening operation  
(2) Closed  
(3) Open

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