

# XCKM521H29

Limit switch, Limit switches XC Standard, XCKM, thermoplastic roller lever plunger, 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             | XCKM                                                                   |
| Body type                     | Fixed                                                                  |
| Head type                     | Plunger head                                                           |
| Material                      | Metal                                                                  |
| Body material                 | Zamak                                                                  |
| 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                   | 3 entries 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                                                                                                                                                                                                                                                               |
| Number of steps                              | 1                                                                                                                                                                                                                                                                |
| Positive opening                             | With                                                                                                                                                                                                                                                             |
| Positive opening minimum force               | 24 N                                                                                                                                                                                                                                                             |
| Minimum force for tripping                   | 8 N                                                                                                                                                                                                                                                              |
| Minimum actuation speed                      | 6 m/min                                                                                                                                                                                                                                                          |
| Maximum actuation speed                      | 4.92 ft/s (1.5 m/s)                                                                                                                                                                                                                                              |
| Contact code designation                     | A300, AC-15 (Ue = 240 V), Ie = 3 A EN/IEC 60947-5-1 appendix A<br>Q300, DC-13 (Ue = 250 V), Ie = 0.27 A EN/IEC 60947-5-1 appendix A                                                                                                                              |
| [Ithe] conventional enclosed thermal current | 10 A AC                                                                                                                                                                                                                                                          |
| [Ui] rated insulation voltage                | 300 VUL 508<br>500 V 3)IEC 60947-1<br>300 VCSA C22.2 No 14                                                                                                                                                                                                       |
| Maximum resistance across terminals          | 25 MOhm IEC 60255-7 category 3                                                                                                                                                                                                                                   |
| [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, inductive, 120 V, 4 W 60 cyc/mn 0.5 IEC 60947-5-1 appendix C<br>5000000 Cycles, DC-13, inductive, 24 V, 7 W 60 cyc/mn 0.5 IEC 60947-5-1 appendix C<br>5000000 cycles, DC-13, inductive, 48 V, 10 W 60 cyc/mn 0.5 IEC 60947-5-1 appendix C |
| Mechanical durability                        | 20000000 cycles                                                                                                                                                                                                                                                  |
| Width                                        | 2.52 in (64 mm)                                                                                                                                                                                                                                                  |
| Height                                       | 2.52 in (64 mm)                                                                                                                                                                                                                                                  |

|                               |                        |
|-------------------------------|------------------------|
| Depth                         | 1.18 in (30 mm)        |
| Net Weight                    | 0.66 lb(US) (0.3 kg)   |
| Terminals description ISO n°1 | (21-22)NC<br>(13-14)NO |

## Environment

|                                       |                                                                                         |
|---------------------------------------|-----------------------------------------------------------------------------------------|
| Shock resistance                      | 50 gn 11 ms EN/IEC 60068-2-27                                                           |
| Vibration resistance                  | 25 gn 10...500 Hz)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 IEC 61140<br>Class I 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                | CSA[RETURN]UL[RETURN]CCC                                                                |
| Standards                             | IEC 60947-5-1<br>EN 60947-5-1<br>EN 60204-1<br>CSA C22.2 No 14<br>IEC 60204-1<br>UL 508 |

## Ordering and shipping details

|                   |                               |
|-------------------|-------------------------------|
| Category          | 22416-LIMIT SWITCHES,IEC,XCKL |
| Discount Schedule | T                             |
| GTIN              | 3389110902259                 |
| Returnability     | No                            |
| Country of origin | FR                            |

## Packing Units

|                              |                          |
|------------------------------|--------------------------|
| Unit Type of Package 1       | PCE                      |
| Number of Units in Package 1 | 1                        |
| Package 1 Height             | 1.30 in (3.300 cm)       |
| Package 1 Width              | 2.56 in (6.500 cm)       |
| Package 1 Length             | 5.83 in (14.800 cm)      |
| Package 1 Weight             | 10.93 oz (310.000 g)     |
| Unit Type of Package 2       | S02                      |
| Number of Units in Package 2 | 32                       |
| Package 2 Height             | 5.91 in (15 cm)          |
| Package 2 Width              | 11.81 in (30 cm)         |
| Package 2 Length             | 15.75 in (40 cm)         |
| Package 2 Weight             | 22.89 lb(US) (10.383 kg) |

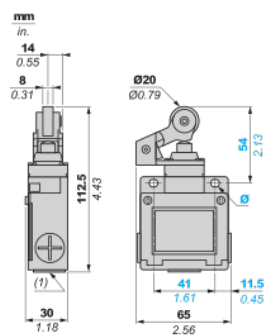
## Offer Sustainability

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

## Contractual warranty

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

## Dimensions



(1) 3 tapped entries M20 x 1.5

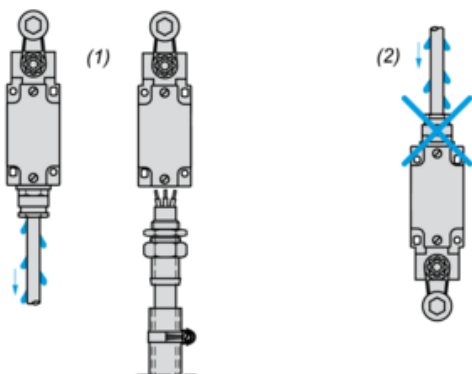
Ø : 2 elongated holes Ø 5.2 x 6.2

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## Mounting with Cable Entry

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### Position of Cable Gland



(1) Recommended

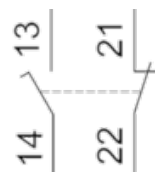
(2) To be avoided

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Wiring Diagram

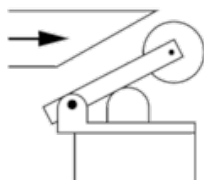
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2-pole N/C + N/O Break before Make, Slow Break

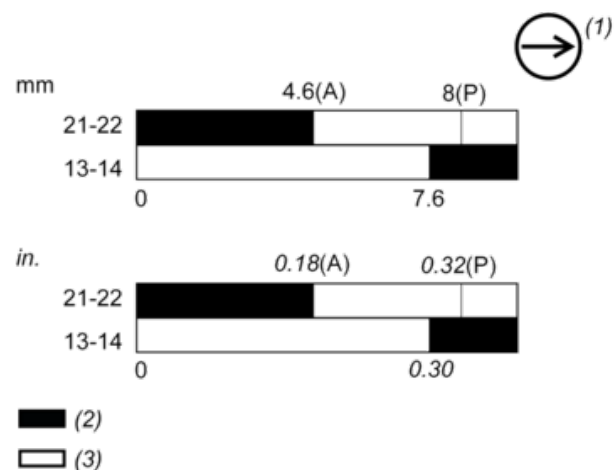


## Characteristics of Actuation

### Switch Actuation by 30° Cam



## Functionnal Diagram



(P) Positive opening point

(A) Cam displacement

(1) NC contact with positive opening operation

(2) Closed

(3) Open