

# XCKML515

limit switch XCKML - thermoplastic roller lever - 2x(1NC+1NO) - slow - Pg13



## Main

|                               |                                                                      |
|-------------------------------|----------------------------------------------------------------------|
| Range of product              | OsiSense XC                                                          |
| Series name                   | Standard format                                                      |
| Product or component type     | Limit switch                                                         |
| Device short name             | XCKML                                                                |
| 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                                       |
| Cable entry                   | 3 entries tapped for Pg 13.5 cable gland 0.35... 0.47 in (9...12 mm) |
| Number of poles               | 4                                                                    |
| Contacts type and composition | 2 x (1 NC + 1 NO)                                                    |
| Contact operation             | Slow-break, break before make                                        |

## Complementary

|                                              |                                                                                                                                                                                                                                                                                                                                                                                |
|----------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Switch actuation                             | By 30° cam                                                                                                                                                                                                                                                                                                                                                                     |
| Electrical connection                        | Screw-clamp terminals 1 x 0.34...2 x 1.5 mm <sup>2</sup>                                                                                                                                                                                                                                                                                                                       |
| Contacts insulation form                     | Zb                                                                                                                                                                                                                                                                                                                                                                             |
| Number of steps                              | 1                                                                                                                                                                                                                                                                                                                                                                              |
| Positive opening                             | With                                                                                                                                                                                                                                                                                                                                                                           |
| Positive opening minimum torque              | 4.43 lbf.in (0.5 N.m)                                                                                                                                                                                                                                                                                                                                                          |
| Minimum torque for tripping                  | 1.77 lbf.in (0.2 N.m)                                                                                                                                                                                                                                                                                                                                                          |
| Minimum actuation speed                      | 6 m/min                                                                                                                                                                                                                                                                                                                                                                        |
| Maximum actuation speed                      | 4.92 ft/s (1.5 m/s)                                                                                                                                                                                                                                                                                                                                                            |
| [Ithe] conventional enclosed thermal current | 10 A AC                                                                                                                                                                                                                                                                                                                                                                        |
| [Ui] rated insulation voltage                | 300 VUL 508<br>500 V 3)IEC 60947-1<br>300 V conforming to CSA 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                                                                                                                                                                                                                                                                                                                                             |
| 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 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                        | 3000000 cycles                                                                                                                                                                                                                                                                                                                                                                 |
| Maximum Width                                | 3.03 in (77 mm)                                                                                                                                                                                                                                                                                                                                                                |
| Height                                       | 3.19 in (81 mm)                                                                                                                                                                                                                                                                                                                                                                |
| Depth                                        | 1.42 in (36 mm)                                                                                                                                                                                                                                                                                                                                                                |
| Net Weight                                   | 0.95 lb(US) (0.43 kg)                                                                                                                                                                                                                                                                                                                                                          |
| Terminals description ISO n°1                | (13-14)NO<br>(21-22)NC                                                                                                                                                                                                                                                                                                                                                         |

## 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 EN/IEC 60529                                                                       |
| IK degree of protection               | IK05 EN 50102                                                                           |
| Electrical shock protection class     | Class I conforming to 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                | UL<br>CSA                                                                               |
| Standards                             | IEC 60204-1<br>CSA C22.2 No 14<br>EN 60947-5-1<br>EN 60204-1<br>UL 508<br>IEC 60947-5-1 |

## Ordering and shipping details

|                       |                                 |
|-----------------------|---------------------------------|
| Category              | 22416 - LIMIT SWITCHES,IEC,XCKL |
| Discount Schedule     | T                               |
| GTIN                  | 00785901158905                  |
| Nbr. of units in pkg. | 1                               |
| Package weight(Lbs)   | 1 lb(US) (0.45 kg)              |
| Returnability         | No                              |
| Country of origin     | FR                              |

## Packing Units

|                        |                   |
|------------------------|-------------------|
| Unit Type of Package 1 | PCE               |
| Package 1 Height       | 5.71 in (14.5 cm) |
| Package 1 width        | 3.15 in (8 cm)    |
| Package 1 Length       | 1.73 in (4.4 cm)  |

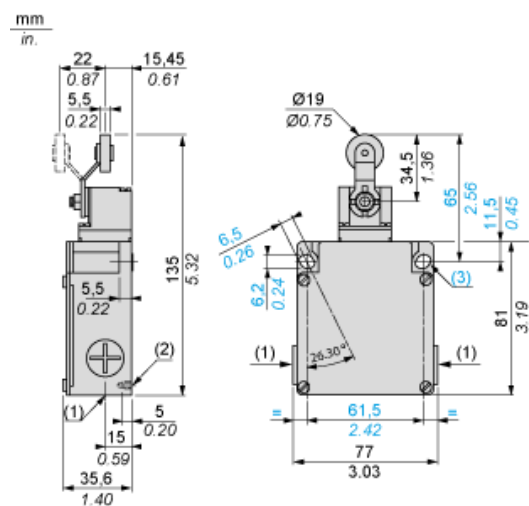
## Offer Sustainability

|                           |                                                                                                                                                                                                                                                                                                                                                                                   |
|---------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 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         | Not applicable, out of EU RoHS legal scope                                                                                                                                                                                                                                                                                                                                        |
| Environmental Disclosure  |  <a href="#">Product Environmental Profile</a>                                                                                                                                                                                                                                                 |

## Contractual warranty

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

## Dimensions



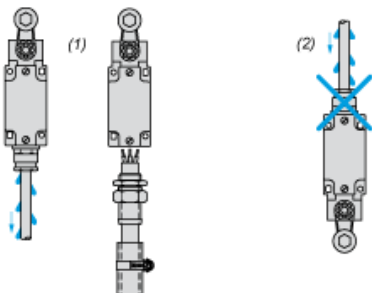
- (1) 3 tapped entries for Pg 13.5 cable gland
- (2) 2 centring holes  $\varnothing 3.9 \pm 0.2$ , for cover fixing holes alignment.
- Ø : 2 elongated holes 6.2 x 6.5, inclined at 26° 30' to the vertical axis, for M5 screws.

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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



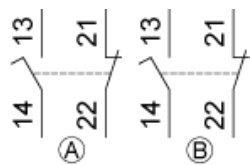
- (1) Recommended
- (2) To be avoided

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## Wiring Diagram

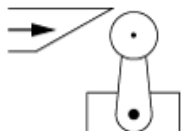
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2 x 2-pole NC + NO Break Before Make, Slow Break

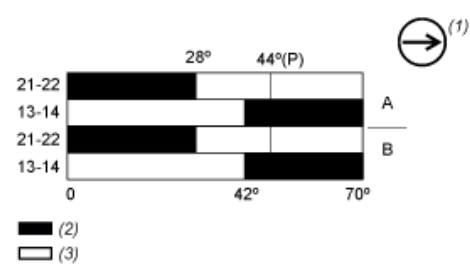


## Characteristics of Actuation

### Switch Actuation by 30° Cam



## Functionnal Diagram



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