

# XCDR2521N12

limit switch XCDR - th.plastic roller lever plung.  
Hor - 1NC+1NO - slow - 1/2NPT



## Main

|                               |  |
|-------------------------------|--|
| Range of product              | Telemecanique Limit switches XC Standard         |
| Series name                   | Standard format                                  |
| Product or component type     | Limit switch                                     |
| Device short name             | XCDR   |
| Sensor design                 | Compact  |
| Reset                         | With   |
| Body type                     | Fixed  |
| Head type                     | Plunger head                                     |
| Material                      | Metal  |
| Body material                 | Zamak  |
| Head 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                   | 1 entry tapped for 1/2" NPT cable gland          |
| 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, clamping capacity: 1 x 0.5...2 x 2.5 mm <sup>2</sup>  |
| Contacts insulation form               | Zb   |
| Positive opening                       | With   |
| Positive opening minimum force         | 18 N   |
| Minimum force for tripping             | 6 N  |
| Maximum actuation speed                | 1 m/s  |
| Repeat accuracy                        | 0.1 mm on the tripping points with 1 million operating cycles  |
| Contact code designation               | A300, AC-15 (Ue = 240 V), Ie = 3 A, Ithe = 10 A conforming to EN/IEC 60947-5-1 appendix A<br>Q300, DC-13 (Ue = 250 V), Ie = 0.27 A conforming to EN/IEC 60947-5-1 appendix A   |
| [Ui] rated insulation voltage          | 300 V conforming to UL 508<br>500 V (pollution degree 3) conforming to EN 60947-1<br>500 V (pollution degree 3) conforming to IEC 60947-1<br>300 V conforming to CSA C22.2 No 14   |
| Maximum resistance across terminals    | 25 MOhm conforming to 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, type gG   |
| 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<br>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<br>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 |
| Width                                  | 31 mm  |

|                               |                        |
|-------------------------------|------------------------|
| Height                        | 65 mm                  |
| Depth                         | 30 mm                  |
| Net weight                    | 0.225 kg               |
| Terminals description ISO n°1 | (13-14)NO<br>(21-22)NC |

## Environment

|                                       |   |
|---------------------------------------|---|
| Shock resistance                      | 50 gn for 11 ms conforming to IEC 60068-2-27  |
| Vibration resistance                  | 25 gn (f= 10...500 Hz) conforming to IEC 60068-2-6                                      |
| IP degree of protection               | IP66 conforming to IEC 60529<br>IP67 conforming to IEC 60529                            |
| IK degree of protection               | IK04 conforming to EN 50102   |
| Overvoltage category                  | Class I conforming to IEC 61140<br>Class I conforming to NF C 20-030                    |
| Ambient air temperature for operation | -25...70 °C   |
| Ambient air temperature for storage   | -40...70 °C   |
| Protective treatment                  | TC  |
| Product certifications                | UL<br>CSA   |
| Standards                             | EN 60204-1<br>EN 60947-5-1<br>IEC 60204-1<br>UL 508<br>CSA C22.2 No 14<br>IEC 60947-5-1 |

## Packing Units

|                  |          |
|------------------|----------|
| Package 1 Weight | 0.227 kg |
| Package 1 Height | 1.180 dm |
| Package 1 width  | 0.310 dm |
| Package 1 Length | 0.310 dm |

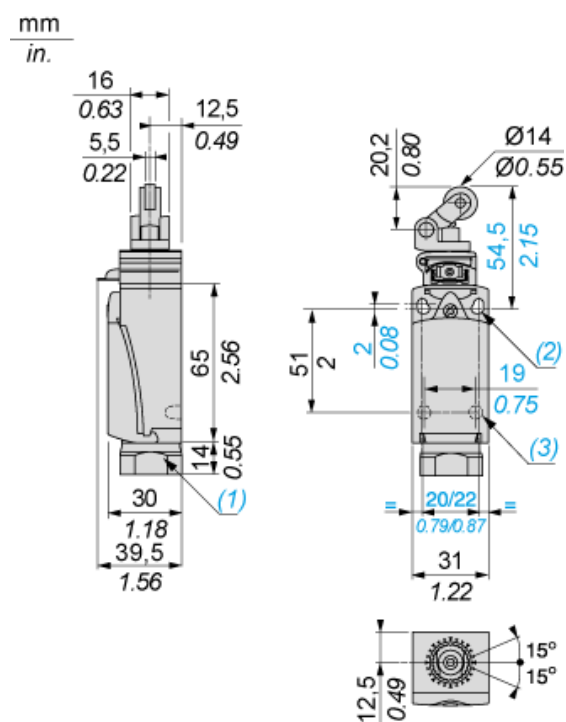
## Offer Sustainability

|                            |  |
|----------------------------|--|
| Sustainable offer status   | Green Premium product  |
| 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) Tapped entry for 1/2"NPT
- (2) 2 elongated holes Ø 4.3 x 6.3 mm on 22 mm centres, 2 holes Ø 4.3 on 20 mm centres.
- (3) 2 x Ø 3 holes for support studs, depth 4 mm

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## Mounting with Cable Entry

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### Position of Cable Gland



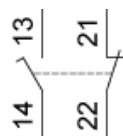
- (1) Recommended
- (2) To be avoided

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## Wiring Diagram

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2-pole NC + NO Break before Make, Slow Break

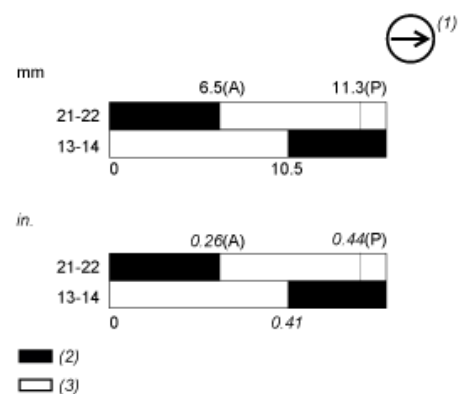


## Characteristics of Actuation

### 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