# XCMN3902L2

limit switch XCMN - steel roller plunger - 2NC +1NO - snap - 2 m

Green Premium™ Product

**Product Life Status :**  END OF COMMERCIALIZATION

TODAY
FEB 21, 2021

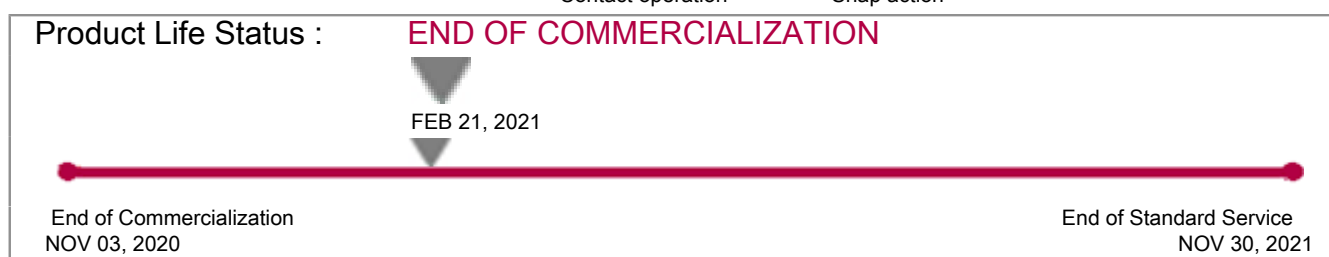| End of Commercialization | End of Standard Service |
|---|---|
| NOV 03, 2020 | NOV 30, 2021 |

## Main

| | |
|---|---|
| Range of product | Telemecanique Limit switches XC Standard |
| Series name | Standard format |
| Product or component type | Limit switch |
| Device short name | XCMN |
| Sensor design | Miniature |
| Body type | Fixed |
| Head type | Plunger head |
| Material | Plastic |
| Body material | Plastic |
| Head material | Zamak |
| Fixing mode | By the body |
| Movement of operating head | Linear |
| Type of operator | Spring return roller plunger metal |
| Type of approach | Lateral approach, 2 directions |
| Number of poles | 3 |
| Contacts type and composition | 2 NC + 1 NO |
| Contact operation | Snap action |

## Complementary

| | |
|---|---|
| Switch actuation | By 30° cam |
| Electrical connection | Fixed cable |
| Cable length | 2 m |
| Cable composition | 7 x 0.5 mm² |
| Wire insulation material | PvR |
| Contacts insulation form | Zb |
| Positive opening | With |
| Positive opening minimum force | 35 N |
| Minimum force for tripping | 7 N |
| Maximum actuation speed | 0.5 m/s |

| | |
|---|---|
| Contact code designation | B300, AC-15 (Ue = 240 V), Ie = 1.5 A conforming to EN/IEC 60947-5-1 appendix A |
| | R300, DC-13 (Ue = 250 V), Ie = 0.1 A conforming to EN/IEC 60947-5-1 appendix A |
| [Ui] rated insulation voltage | 300 V (pollution degree 3) conforming to UL 508 |
| | 400 V (pollution degree 3) conforming to IEC 60947-5-1 |
| | 300 V (pollution degree 3) 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 | IEC 60664 4 kV |
| | IEC 60947-1 4 kV |
| Short-circuit protection | 6 A cartridge fuse, type gG |
| Electrical durability | 5000000 Cycles, DC-13, 120 V, 1 W, operating rate <60 cyc/mn, load factor: 0.5 conforming to IEC 60947-5-1 appendix C |
| | 5000000 Cycles, DC-13, 24 V, 3 W, operating rate <60 cyc/mn, load factor: 0.5 conforming to IEC 60947-5-1 appendix C |
| | 5000000 cycles, DC-13, 48 V, 2 W, operating rate <60 cyc/mn, load factor: 0.5 conforming to IEC 60947-5-1 appendix C |
| Mechanical durability | 5000000 cycles |
| Width | 30 mm |
| Height | 70.4 mm |
| Depth | 16 mm |

## Environment

| | |
|---|---|
| Shock resistance | 25 gn for 18 ms conforming to IEC 60068-2-27 |
| Vibration resistance | 5 gn (f= 10…500 Hz) conforming to IEC 60068-2-6 |
| IP degree of protection | IP65 conforming to IEC 60529 |
| IK degree of protection | IK04 conforming to EN 50102 |
| Electrical shock protection class | Class II conforming to IEC 61140 |
| | Class II 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 | CCC |
| | CSA |
| | UL |
| Standards | CSA C22.2 No 14 |
| | EN/IEC 60947-5-1 |
| | UL 508 |
| | EN/IEC 60204-1 |

## Packing Units

| | |
|---|---|
| Unit Type of Package 1 | PCE |
| Number of Units in Package 1 | 1 |
| Package 1 Weight | 173 g |
| Package 1 Height | 2.5 cm |
| Package 1 width | 13 cm |
| Package 1 Length | 13 cm |

## Offer Sustainability

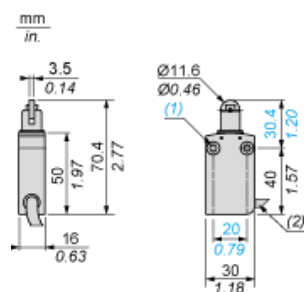| | |
|---|---|
| Sustainable offer status | Green Premium product |
| REACh Regulation | REACh Declaration |
| EU RoHS Directive | Pro-active compliance (Product out of EU RoHS legal scope) EU RoHS Declaration |
| Mercury free | Yes |
| RoHS exemption information | Yes |
| Environmental Disclosure | Product Environmental Profile |
| Circularity Profile | End of Life Information |

Telemecanique
Sensors

## Contractual warranty

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

## Dimensions



(1)    2 fixing holes Ø 4.2 mm, counterbored Ø 8 mm by 4 mm deep.
(2)    External diameter 7.5 mm.
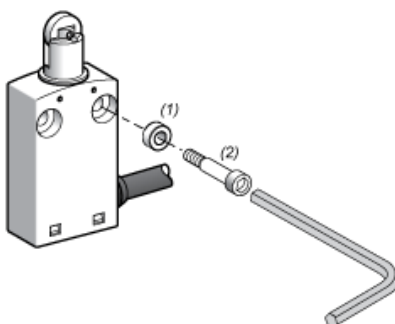
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## Mounting

### Sweep of Connecting Cable



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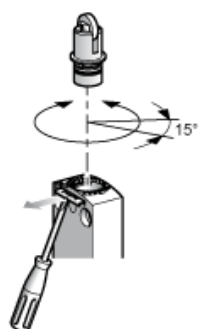(2) :  To be avoided

### Mounting with Spacers



(1) :  2 spacers supplied with the XCMN switch
(2) :  2 screws Ø 4mm (not included)

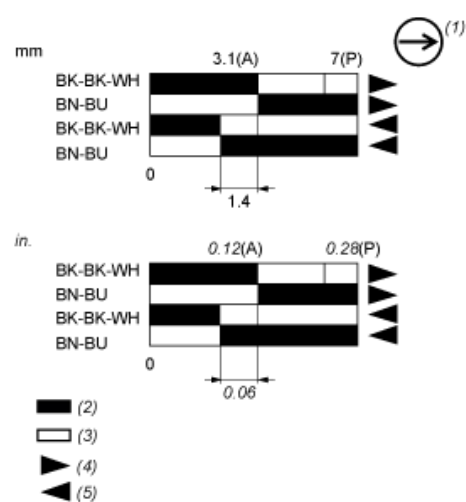## Setting-up

### Plunger or Multi-directional Heads

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## 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
(4)   Tripping
(5)   Resetting
(BK)  Black
(BK-  Black White
WH)
(BN)  Brown
(BU)  Blue