

Product Life Status : **END OF STANDARD SERVICE**

TODAY  
FEB 21, 2021

End of Commercialization  
OCT 30, 2020

End of Standard Service  
OCT 30, 2020



## 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 form C                                                            |
| Body type                     | Fixed                                                                     |
| Head type                     | Plunger head                                                              |
| Material                      | Plastic                                                                   |
| Body material                 | Plastic                                                                   |
| Head material                 | Plastic                                                                   |
| Fixing mode                   | By the body                                                               |
| Movement of operating head    | Linear                                                                    |
| Type of operator              | Spring return roller plunger plastic                                      |
| Type of approach              | Lateral approach, 2 directions                                            |
| Cable entry                   | 1 entry tapped for M20 x 1.5 cable gland, cable outer diameter: 7...13 mm |
| Number of poles               | 2                                                                         |
| Contacts type and composition | 1 NC + 1 NO                                                               |
| Contact operation             | Snap action                                                               |

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## Complementary

|                                |                                                                                                                                                                             |
|--------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Switch actuation               | By 30° cam                                                                                                                                                                  |
| Electrical connection          | Screw-clamp terminals, clamping capacity: 1 x 0.34...2 x 1.5 mm <sup>2</sup>                                                                                                |
| Contacts insulation form       | Zb                                                                                                                                                                          |
| Positive opening               | With                                                                                                                                                                        |
| Positive opening minimum force | 20 N                                                                                                                                                                        |
| Minimum force for tripping     | 12 N                                                                                                                                                                        |
| Maximum actuation speed        | 0.3 m/s                                                                                                                                                                     |
| 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>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 conforming to UL 508<br>500 V (pollution degree 3) conforming to IEC 60947-1<br>300 V conforming to CSA C22.2 No 14                                                                                                                                                                                                                                              |
| [Uimp] rated impulse withstand voltage | IEC 60664 6 kV<br>IEC 60947-1 6 kV                                                                                                                                                                                                                                                                                                                                     |
| 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 |
| Mechanical durability                  | 10000000 cycles                                                                                                                                                                                                                                                                                                                                                        |
| Width                                  | 30 mm                                                                                                                                                                                                                                                                                                                                                                  |
| Height                                 | 85 mm                                                                                                                                                                                                                                                                                                                                                                  |
| Depth                                  | 30 mm                                                                                                                                                                                                                                                                                                                                                                  |
| Net weight                             | 0.145 kg                                                                                                                                                                                                                                                                                                                                                               |
| Terminals description ISO n°1          | (13-14)NO<br>(21-22)NC                                                                                                                                                                                                                                                                                                                                                 |

## Environment

|                                       |                                                                                         |
|---------------------------------------|-----------------------------------------------------------------------------------------|
| Shock resistance                      | 45 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               | IP65 conforming to IEC 60529                                                            |
| IK degree of protection               | IK04 conforming to EN 50102                                                             |
| Overvoltage category                  | Class II conforming to IEC 61140<br>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<br>CSA<br>UL                                                                        |
| Standards                             | EN 60204-1<br>EN 60947-5-1<br>CSA C22.2 No 14<br>UL 508<br>IEC 60947-5-1<br>IEC 60204-1 |

## Packing Units

|                  |          |
|------------------|----------|
| Package 1 Weight | 0.066 kg |
| Package 1 Height | 1.100 dm |
| Package 1 width  | 1.280 dm |
| Package 1 Length | 1.680 dm |