

# XCPR2502P20

Limit switch, Limit switches XC Standard, XCPR, steel roller 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             | XCPR                                                              |
| Sensor design                 | Compact                                                           |
| Reset                         | With                                                              |
| 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                                    |
| Cable entry                   | 1 entry tapped for M20 x 1.5 cable gland 0.3...0.5 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                                                                                                                                                                                                                              |
| Positive opening                       | With                                                                                                                                                                                                                            |
| Positive opening minimum force         | 36 N                                                                                                                                                                                                                            |
| Minimum force for tripping             | 12 N                                                                                                                                                                                                                            |
| Maximum actuation speed                | 1.6 ft/s (0.5 m/s)                                                                                                                                                                                                              |
| Contact code designation               | A300, AC-15 (Ue = 240 V), Ie = 3 A 10 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                                                                                        |
| [Ui] rated insulation voltage          | 300 VUL 508<br>500 V 3)EN 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, 120 V, 4 W 60 cyc/mn 0.5 IEC 60947-5-1 appendix C<br>5000000 Cycles, DC-13, 24 V, 10 W 60 cyc/mn 0.5 IEC 60947-5-1 appendix C<br>5000000 cycles, DC-13, 48 V, 7 W 60 cyc/mn 0.5 IEC 60947-5-1 appendix C |
| Width                                  | 1.2 in (31 mm)                                                                                                                                                                                                                  |
| Height                                 | 2.6 in (65 mm)                                                                                                                                                                                                                  |
| Depth                                  | 1.2 in (30 mm)                                                                                                                                                                                                                  |

|                               |                         |
|-------------------------------|-------------------------|
| Net Weight                    | 0.254 lb(US) (0.115 kg) |
| Terminals description ISO n°1 | (21-22)NC<br>(13-14)NO  |

## Environment

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

## Ordering and shipping details

|                   |               |
|-------------------|---------------|
| Category          | US1000T22418  |
| Discount Schedule | 000T          |
| GTIN              | 3389110210538 |
| Returnability     | No            |
| Country of origin | FR            |

## Packing Units

|                              |                          |
|------------------------------|--------------------------|
| Unit Type of Package 1       | PCE                      |
| Number of Units in Package 1 | 1                        |
| Package 1 Height             | 7.56 in (19.200 cm)      |
| Package 1 Width              | 2.13 in (5.400 cm)       |
| Package 1 Length             | 2.36 in (6.000 cm)       |
| Package 1 Weight             | 4.832 oz (137.000 g)     |
| Unit Type of Package 2       | S03                      |
| Number of Units in Package 2 | 40                       |
| Package 2 Height             | 11.81 in (30.000 cm)     |
| Package 2 Width              | 11.81 in (30.000 cm)     |
| Package 2 Length             | 15.75 in (40.000 cm)     |
| Package 2 Weight             | 13.226 lb(US) (5.999 kg) |

## 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> |
| EU RoHS Directive          | Pro-active compliance (Product out of EU RoHS legal scope)                                                                                                                                                                                                                                                                                                                        |
| Mercury free               | Yes                                                                                                                                                                                                                                                                                                                                                                               |
| RoHS exemption information |  Yes                                                                                                                                                                                                                                                                                           |

## Contractual warranty

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