

# XCMD21F0M12

Limit switch, Limit switches XC Standard, XCMD, M12 metal end plunger, 1C/O, snap, M12

## Main

|                               |                                          |
|-------------------------------|------------------------------------------|
| Range of Product              | Telemecanique Limit switches XC Standard |
| Series name                   | Standard format                          |
| Product or Component Type     | Limit switch                             |
| Device short name             | XCMD                                     |
| Sensor design                 | Miniature                                |
| Body type                     | Plug-in body                             |
| Head type                     | M12 plunger head                         |
| Material                      | Metal                                    |
| Body Material                 | Zamak                                    |
| Head material                 | Zamak                                    |
| Fixing Mode                   | By the head                              |
| Movement of operating head    | Linear                                   |
| Type of operator              | Spring return plunger metal              |
| Type of approach              | Vertical approach, 1 direction           |
| Number of poles               | 1                                        |
| Contacts type and composition | 1 C/O                                    |
| Contact operation             | Snap action                              |

## Complementary

|                                              |                                                                                                                                                                                                                                |
|----------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Switch actuation                             | On end                                                                                                                                                                                                                         |
| Electrical connection                        | Male connector M12, 4 pins                                                                                                                                                                                                     |
| Contacts insulation form                     | Za                                                                                                                                                                                                                             |
| Positive opening                             | Without                                                                                                                                                                                                                        |
| Minimum force for tripping                   | 8.5 N                                                                                                                                                                                                                          |
| Minimum actuation speed                      | 0.01 m/min                                                                                                                                                                                                                     |
| Maximum actuation speed                      | 1.6 ft/s (0.5 m/s)                                                                                                                                                                                                             |
| [Ie] rated operational current               | 1.5 A 240 V, AC-15 EN/IEC 60947-5-1 appendix A<br>0.1 A 250 V, DC-13 EN/IEC 60947-5-1 appendix A                                                                                                                               |
| [Ithe] conventional enclosed thermal current | 3 A                                                                                                                                                                                                                            |
| [Ui] rated insulation voltage                | 250 V 3) IEC 60947-5-1                                                                                                                                                                                                         |
| Maximum resistance across terminals          | 25 mOhm IEC 60255-7 category 3                                                                                                                                                                                                 |
| [Uimp] rated impulse withstand voltage       | 2.5 kV IEC 60664<br>2.5 kV IEC 60947-1                                                                                                                                                                                         |
| Short-circuit protection                     | 4 A cartridge fuse gG                                                                                                                                                                                                          |
| Electrical durability                        | 5000000 Cycles, DC-13, 24 V, 3 W 60 cyc/mn 0.5 IEC 60947-5-1 appendix C<br>5000000 Cycles, DC-13, 48 V, 2 W 60 cyc/mn 0.5 IEC 60947-5-1 appendix C<br>5000000 cycles, DC-13, 120 V, 1 W 60 cyc/mn 0.5 IEC 60947-5-1 appendix C |
| Mechanical durability                        | 10000000 cycles                                                                                                                                                                                                                |
| Width                                        | 1.2 in (30 mm)                                                                                                                                                                                                                 |
| Height                                       | 2.0 in (50 mm)                                                                                                                                                                                                                 |
| Depth                                        | 0.6 in (16 mm)                                                                                                                                                                                                                 |
| Net Weight                                   | 0.2 lb(US) (0.1 kg)                                                                                                                                                                                                            |

## Environment

|                                       |                                                                                              |
|---------------------------------------|----------------------------------------------------------------------------------------------|
| Shock resistance                      | 25 gn 18 ms IEC 60068-2-27                                                                   |
| Vibration resistance                  | 5 gn 10...500 Hz)IEC 60068-2-6                                                               |
| IP degree of protection               | IP66 conforming to IEC 60529<br>IP67 conforming to IEC 60529<br>IP68 conforming to IEC 60529 |
| IK degree of protection               | IK06 conforming to EN 62262                                                                  |
| Electrical shock protection class     | Class I 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                | CSA[RETURN]UL[RETURN]CCC                                                                     |
| Standards                             | CSA C22.2 No 14<br>UL 508<br>EN/IEC 60947-5-1<br>EN/IEC 60204-1                              |

## Ordering and shipping details

|                   |               |
|-------------------|---------------|
| Category          | US1000T22413  |
| Discount Schedule | 000T          |
| GTIN              | 3389110221558 |
| Returnability     | No            |

## Packing Units

|                              |                          |
|------------------------------|--------------------------|
| Unit Type of Package 1       | PCE                      |
| Number of Units in Package 1 | 1                        |
| Package 1 Height             | 0.63 in (1.6 cm)         |
| Package 1 Width              | 2.99 in (7.6 cm)         |
| Package 1 Length             | 2.09 in (5.3 cm)         |
| Package 1 Weight             | 3.7 oz (106 g)           |
| Unit Type of Package 2       | S02                      |
| Number of Units in Package 2 | 90                       |
| Package 2 Height             | 5.91 in (15 cm)          |
| Package 2 Width              | 11.81 in (30 cm)         |
| Package 2 Length             | 15.75 in (40 cm)         |
| Package 2 Weight             | 22.035 lb(US) (9.995 kg) |

## Offer Sustainability

|                            |                                                                                                                                                                                                                                                                                                                                                                                   |
|----------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| SCIP Number                | 8543ff15-10f3-43cd-8ca0-64efd1d62862                                                                                                                                                                                                                                                                                                                                              |
| 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 |
|----------|-----------|