

limit switch XCKM - metal end plunger - 1NO  
+1NC - snap action - Pg11



## Main

|                               |                                                                               |
|-------------------------------|-------------------------------------------------------------------------------|
| Range of product              | OsiSense XC                                                                   |
| Series name                   | Standard format                                                               |
| Product or component type     | Limit switch                                                                  |
| Device short name             | XCKM                                                                          |
| Sensor design                 | -                                                                             |
| Body type                     | Fixed                                                                         |
| Head type                     | Plunger head                                                                  |
| Material                      | Metal                                                                         |
| Fixing mode                   | By the body                                                                   |
| Movement of operating head    | Linear                                                                        |
| Type of operator              | Metal spring return plunger                                                   |
| Type of approach              | 1 direction vertical approach                                                 |
| Electrical connection         | Screw-clamp terminals , clamping capacity: 1 x 0.34...2 x 1.5 mm <sup>2</sup> |
| Cable entry                   | 3 entries tapped for Pg 11 cable gland                                        |
| Number of poles               | 2                                                                             |
| Contacts type and composition | 1 NO + 1 NC                                                                   |
| Contacts operation            | Snap action                                                                   |
| Positive opening              | With                                                                          |

## Complementary

|                                              |                                                                                                                                                                                                                                                                                                                                 |
|----------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Body material                                | Zamak                                                                                                                                                                                                                                                                                                                           |
| Switch actuation                             | On end                                                                                                                                                                                                                                                                                                                          |
| Contacts insulation form                     | Zb                                                                                                                                                                                                                                                                                                                              |
| Number of steps                              | 1                                                                                                                                                                                                                                                                                                                               |
| Positive opening minimum force               | 45 N                                                                                                                                                                                                                                                                                                                            |
| Minimum force for tripping                   | 15 N                                                                                                                                                                                                                                                                                                                            |
| Minimum actuation speed                      | 0.01 m/min                                                                                                                                                                                                                                                                                                                      |
| Maximum actuation speed                      | 0.5 m/s                                                                                                                                                                                                                                                                                                                         |
| Repeat accuracy                              | 0.05 mm on the tripping points with 1 million operating cycles                                                                                                                                                                                                                                                                  |
| Contact code designation                     | A300 , AC-15 (Ue = 240 V , Ie = 3 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                                                                                                                                                             |
| [Ithe] conventional enclosed thermal current | 10 A AC                                                                                                                                                                                                                                                                                                                         |
| [Ui] rated insulation voltage                | 300 V conforming to UL 508<br>300 V conforming to CSA C22-2 No 14<br>500 V degree of pollution 3 conforming to IEC 60947-1                                                                                                                                                                                                      |
| Resistance across terminals                  | ≤ 25 mOhm conforming to IEC 60255-7 category 3                                                                                                                                                                                                                                                                                  |
| [Uimp] rated impulse withstand voltage       | 6 kV conforming to IEC 60947-1<br>6 kV conforming to IEC 60664                                                                                                                                                                                                                                                                  |
| Short circuit protection                     | 10 A by gG cartridge fuse                                                                                                                                                                                                                                                                                                       |
| Electrical durability                        | 5000000 cycles , DC-13 inductive load type, 48 V , 7 W , load factor: 0.5 , operating rate: ≤ 60 cyc/mn<br>5000000 cycles , DC-13 inductive load type, 120 V , 4 W , load factor: 0.5 , operating rate: ≤ 60 cyc/mn<br>5000000 cycles , DC-13 inductive load type, 24 V , 10 W , load factor: 0.5 , operating rate: ≤ 60 cyc/mn |
| Mechanical durability                        | 20000000 cycles                                                                                                                                                                                                                                                                                                                 |

|                |         |
|----------------|---------|
| Width          | 63 mm   |
| Height         | 64 mm   |
| Depth          | 30 mm   |
| Product weight | 0.25 kg |

## Environment

|                                            |                                                                                         |
|--------------------------------------------|-----------------------------------------------------------------------------------------|
| Shock resistance                           | 50 gn (duration = 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                                                            |
| IK degree of protection                    | IK05 conforming to EN 50102                                                             |
| Class of protection against electric shock | 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                     | CCC<br>CSA<br>UL                                                                        |
| Standards                                  | CSA C22-2 No 14<br>EN 60204-1<br>EN 60947-5-1<br>IEC 60204-1<br>IEC 60947-5-1<br>UL 508 |
| RoHS EUR conformity date                   | 4Q2009                                                                                  |
| RoHS EUR status                            | Will be compliant                                                                       |