

# XCKD3910P16EX

limit switch XCK-D - plunger - 2 NC + 1 NO -  
ATEX

## Main

|                               |                                                           |
|-------------------------------|-----------------------------------------------------------|
| Range of product              | Osiswitch ATEX D                                          |
| Series name                   | Universal                                                 |
| Product or component type     | Limit switch                                              |
| Device short name             | XCKD                                                      |
| Sensor design                 | Compact form B CENELEC EN 50047                           |
| Body type                     | Fixed                                                     |
| Head type                     | Plunger head                                              |
| Material                      | Metal                                                     |
| Fixing mode                   | By the body                                               |
| Type of operator              | Spring return plunger metal                               |
| Switch actuation              | On end                                                    |
| Type of approach              | Vertical approach 1 direction                             |
| Electrical connection         | Screw-clamp terminals 1 x 0.34...2 x 0.75 mm <sup>2</sup> |
| Number of poles               | 3                                                         |
| Contacts type and composition | 2 NC + 1 NO                                               |
| Contacts insulation form      | Zb                                                        |
| Contacts operation            | Snap action                                               |
| Number of steps               | 1                                                         |
| Positive opening              | With                                                      |
| Minimum force for tripping    | 15 N                                                      |
| Maximum actuation speed       | 0.5 m/s                                                   |
| IP degree of protection       | IP66 IEC 60529<br>IP67 IEC 60529                          |

## Complementary

|                                              |                                                                                                                                                                                  |
|----------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Body material                                | Zamak                                                                                                                                                                            |
| Head material                                | Zamak                                                                                                                                                                            |
| Movement of operating head                   | Linear                                                                                                                                                                           |
| Cable entry                                  | 1 entry tapped for M16 x 1.5 cable gland 4...8 mm CENELEC EN 50047                                                                                                               |
| Positive opening minimum force               | 45 N                                                                                                                                                                             |
| Minimum actuation speed                      | 0.01 m/min                                                                                                                                                                       |
| Contact code designation                     | B300 AC-15 240 V 1.5 A IEC 60947-5-1 appendix A<br>B300 AC-15 240 V 1.5 A EN 60947-5-1<br>R300 DC-13 250 V 0.1 A IEC 60947-5-1 appendix A<br>R300 DC-13 250 V 0.1 A EN 60947-5-1 |
| [Ithe] conventional enclosed thermal current | 6 A AC                                                                                                                                                                           |
| [Ui] rated insulation voltage                | 300 V UL 508<br>300 V CSA C22-2 No 14<br>400 V 3 IEC 60947-1                                                                                                                     |
| Resistance across terminals                  | ≤ 25 mOhm IEC 60255-7 category 3                                                                                                                                                 |
| [Uimp] rated impulse withstand voltage       | 4 kV IEC 60947-1<br>4 kV IEC 60664                                                                                                                                               |
| Short circuit protection                     | 6 A cartridge fuse gG                                                                                                                                                            |

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|                       |                                                                                                                                                                                                                                                                       |
|-----------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Electrical durability | 5000000 cycles DC-13 inductive 120 V 2 W ≤ 3600 cyc/h 0.5 DC IEC 60947-5-1 appendix C<br>5000000 cycles DC-13 inductive 48 V 3 W ≤ 3600 cyc/h 0.5 DC IEC 60947-5-1 appendix C<br>5000000 cycles DC-13 inductive 24 V 4 W ≤ 3600 cyc/h 0.5 DC IEC 60947-5-1 appendix C |
| Mechanical durability | 15000000 cycles                                                                                                                                                                                                                                                       |
| Marking               | II2 D-Ex tD A21 IP66/67 T85°C                                                                                                                                                                                                                                         |
| Width                 | 31 mm                                                                                                                                                                                                                                                                 |
| Height                | 65 mm                                                                                                                                                                                                                                                                 |
| Depth                 | 30 mm                                                                                                                                                                                                                                                                 |

## Environment

|                                            |                                                                                  |
|--------------------------------------------|----------------------------------------------------------------------------------|
| Shock resistance                           | 50 gn 11 ms IEC 60068-2-27                                                       |
| Vibration resistance                       | 25 gn 10...500 Hz IEC 60068-2-6                                                  |
| Class of protection against electric shock | Class I IEC 61140<br>Class I NF C 20-030                                         |
| Ambient air temperature for operation      | -20...60 °C                                                                      |
| Protective treatment                       | TC                                                                               |
| Dust zone                                  | Zone 21 - 22                                                                     |
| Product certifications                     | INERIS 04ATEX0014X                                                               |
| Standards                                  | Directive ATEX 94/9/EC<br>EN 50014<br>EN 50281-1-1<br>IEC 61241-0<br>IEC 61241-1 |
| RoHS EUR conformity date                   | 3Q2009                                                                           |
| RoHS EUR status                            | Will be compliant                                                                |