

# XCKD3911P16EX

limit switch XCKD - plunger with elastomer boot -  
2NC + NO - ATEX/IECEX



## Main

|                               |   |
|-------------------------------|---|
| Range of product              | OsiSense ATEX D   |
| Series name                   | Standard format   |
| Product or component type     | Limit switch  |
| Device short name             | XCKD  |
| Sensor design                 | Compact   |
| 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, with elastomer boot                                      |
| 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>                            |
| Cable entry number            | 1 tapped entry (M16 x 1.5) for cable gland (included), cable outer diameter: 4...8 mm |
| Number of poles               | 3   |
| Contacts type and composition | 2 NC + 1 NO   |
| Contacts insulation form      | Zb  |
| Contact 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 conforming to IEC 60529<br>IP67 conforming to IEC 60529                          |

## Complementary

|   |   |
|---|---|
| Body material   | Zamak   |
| Head material   | Zamak   |
| Positive opening minimum force                            | 45 N  |
| Minimum actuation speed                                   | 0.01 m/min  |
| Contact code designation                                  | B300, AC-15 (240 V, I <sub>e</sub> = 1.5 A) conforming to EN 60947-5-1<br>B300, AC-15 (240 V, I <sub>e</sub> = 1.5 A) conforming to IEC 60947-5-1 appendix A<br>R300, DC-13 (250 V, I <sub>e</sub> = 0.1 A) conforming to EN 60947-5-1<br>R300, DC-13 (250 V, I <sub>e</sub> = 0.1 A) conforming to IEC 60947-5-1 appendix A  |
| [I <sub>the</sub> ] conventional enclosed thermal current | 6 A AC  |
| [U <sub>i</sub> ] rated insulation voltage                | 400 V, pollution degree: 3 conforming to IEC 60947-1<br>300 V conforming to UL 508<br>300 V conforming to CSA C22.2 No 14   |
| Resistance across terminals                               | <= 25 MOhm conforming to IEC 60255-7 category 3   |
| [U <sub>imp</sub> ] rated impulse withstand voltage       | 4 kV conforming to IEC 60664<br>4 kV conforming to IEC 60947-1  |
| Short-circuit protection                                  | 6 A cartridge fuse, type gG   |
| Electrical durability                                     | 5000000 cycles DC-13 120 V 2 W, <= 3600 cyc/mn load factor: 0.5 conforming to IEC 60947-5-1 appendix C inductive DC<br>5000000 cycles DC-13 24 V 4 W, <= 3600 cyc/mn load factor: 0.5 conforming to IEC 60947-5-1 appendix C inductive DC<br>5000000 cycles DC-13 48 V 3 W, <= 3600 cyc/mn load factor: 0.5 conforming to IEC |

The information provided in this documentation contains general descriptions and/or technical characteristics of the performance of the products contained herein. This documentation is not intended as a substitute for and is not to be used for determining suitability or reliability of these products for specific user applications. It is the duty of any such user or integrator to perform the appropriate and complete risk analysis, evaluation and testing of the products with respect to the relevant specific application or use thereof. Neither Schneider Electric Industries SAS nor any of its affiliates or subsidiaries shall be responsible or liable for misuse of the information contained herein.

|                       |                                   |
|-----------------------|-----------------------------------|
| Mechanical durability | 15000000 cycles                   |
| Marking               | II2 D-Ex tb IIIC T85°C Db IP66/67 |
| Width                 | 31 mm                             |
| Height                | 65 mm                             |
| Depth                 | 30 mm                             |

## Environment

|                                       |  |
|---------------------------------------|--|
| shock resistance                      | 50 gn for 11 ms conforming to IEC 60068-2-27                         |
| vibration resistance                  | 25 gn 10...500 Hz IEC 60068-2-6                                      |
| electrical shock protection class     | Class I conforming to IEC 61140<br>Class I conforming to NF C 20-030 |
| ambient air temperature for operation | -20...60 °C  |
| protective treatment                  | TC   |
| dust zone                             | Zone 21 - 22   |
| product certifications                | INERIS 04ATEX0014X<br>IEC-Ex INE 17.0020X                            |
| standards                             | EN/IEC 60079-0<br>EN/IEC 60079-31                                    |
| directives                            | 2014/34/EU - ATEX directive  |

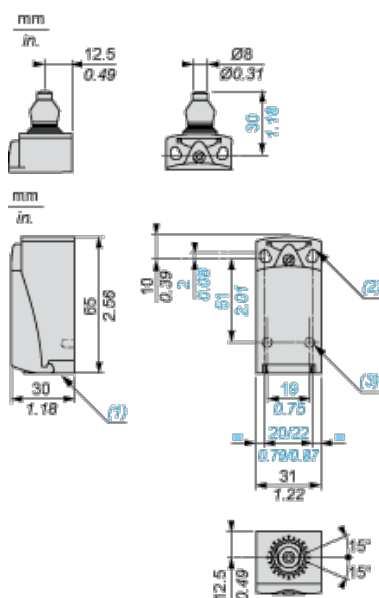
## Offer Sustainability

|                                  |   |
|----------------------------------|---|
| Sustainable offer status         | Green Premium product   |
| RoHS (date code: YYWW)           | Compliant - since 1002 - Schneider Electric declaration of conformity |
| REACH                            | Reference not containing SVHC above the threshold                     |
| Product end of life instructions | Need no specific recycling operations                                 |

## Contractual warranty

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

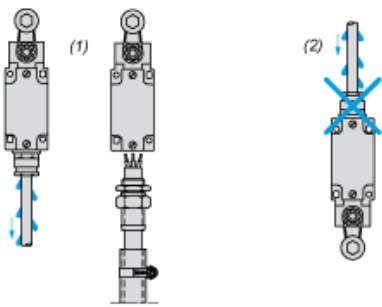
## Dimensions



- (1) Tapped entry for M16 x 1.5
- (2) 2 elongated holes  $\varnothing$  4.3 x 6.3 mm on 22 mm centres, 2 holes  $\varnothing$  4.3 on 20 mm centres.
- (3) 2 x  $\varnothing$  3 holes for support studs, depth 4 mm.

## Mounting with Cable Entry

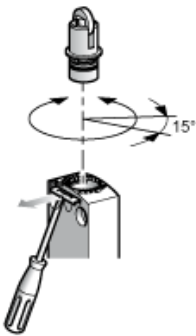
### Position of Cable Gland



- (1) Recommended
- (2) To be avoided

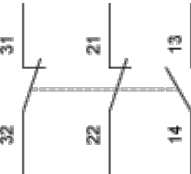
### Setting-up

#### Plunger or Multi-directional Heads



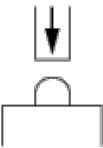
### Wiring Diagram

#### 3-pole NC + NC + NO Snap Action

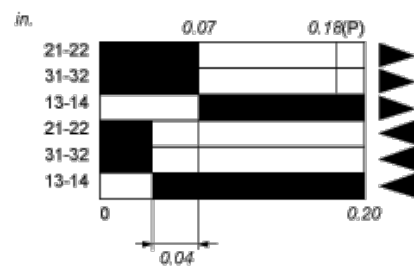
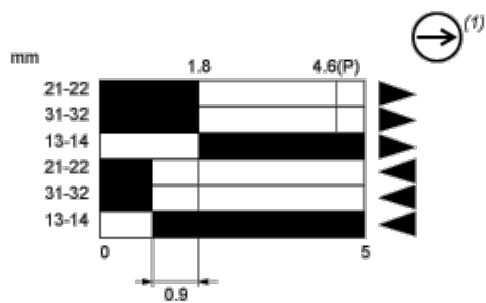


### Characteristics of Actuation

#### Switch Actuation on End



### Functionnal Diagram



- (2)
- (3)
- ▶ (4)
- ◀ (5)

- (P) Positive opening point
- (1) NC contact with positive opening operation
- (2) Closed
- (3) Open
- (4) Tripping
- (5) Resetting