



Main

| | |
|-------------------------------|---|
| Range of product | OsiSense XC |
| Series name | Standard format |
| Product or component type | Limit switch |
| Device short name | XCKD |
| Sensor design | Compact form B conforming to CENELEC EN 50047 |
| Body type | Fixed |
| Head type | Plunger head |
| Material | Metal |
| Body material | Zamak |
| Head material | Zamak |
| Fixing mode | By the body |
| Movement of operating head | Linear |
| Type of operator | Spring return plunger metal |
| Type of approach | Vertical approach 1 direction |
| Number of poles | 2 |
| Contacts type and composition | 1 NC + 1 NO |
| Contact operation | Snap action |

Complementary

| | |
|--|--|
| Switch actuation | On end |
| Electrical connection | Screw-clamp terminals, clamping capacity: 1 x 0.34...2 x 1.5 mm ² |
| Cable entry | 1 entry tapped for M16 x 1.5 cable gland, cable outer diameter: 4...8 mm |
| Contacts insulation form | Zb |
| Positive opening | With |
| 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 | 0.1 mm on the tripping points with 1 million operating cycles |
| Contact code designation | A300, AC-15 (U _e = 240 V, I _e = 3 A) , I _{the} = 10 A conforming to EN 60947-5-1 A300, AC-15 (U _e = 240 V, I _e = 3 A) , I _{the} = 10 A conforming to IEC 60947-5-1 appendix A Q300, DC-13 (U _e = 250 V, I _e = 0.27 A) conforming to EN 60947-5-1 Q300, DC-13 (U _e = 250 V, I _e = 0.27 A) conforming to IEC 60947-5-1 appendix A |
| [Ui] rated insulation voltage | 300 V conforming to CSA C22.2 No 14 500 V degree of pollution 3 conforming to IEC 60947-1 300 V conforming to UL 508 |
| Resistance across terminals | <= 25 MOhm conforming to IEC 60255-7 category 3 |
| [Uimp] rated impulse withstand voltage | 6 kV conforming to IEC 60664 6 kV conforming to IEC 60947-1 |
| Short-circuit protection | 10 A cartridge fuse gG |
| Electrical durability | 5000000 cycles, DC-13, 120 V, 4 W, operating rate: <= 60 cyc/mn, load factor: 0.5, DC conforming to IEC 60947-5-1 appendix C 5000000 cycles, DC-13, 24 V, 10 W, operating rate: <= 60 cyc/mn, load factor: 0.5, DC conforming to IEC 60947-5-1 appendix C 5000000 cycles, DC-13, 48 V, 7 W, operating rate: <= 60 cyc/mn, load factor: 0.5, DC conforming to IEC 60947-5-1 appendix C |
| Mechanical durability | 15000000 cycles |

| | |
|-------------------------------|------------------------|
| Width | 31 mm |
| Height | 65 mm |
| Depth | 30 mm |
| Product weight | 0.18 kg |
| Terminals description ISO n°1 | (13-14)NO (21-22)NC |

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 IP67 conforming to IEC 60529 |
| IK degree of protection | IK06 conforming to EN 50102 |
| Electrical shock protection class | Class I conforming to IEC 61140 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 | CSA CCC UL |
| Standards | EN 60947-5-1 IEC 60947-5-1 CSA C22.2 No 14 EN 60204-1 UL 508 IEC 60204-1 |

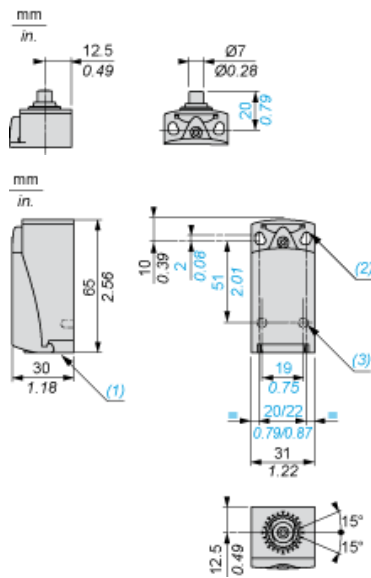
Offer Sustainability

| | |
|----------------------------------|--|
| Sustainable offer status | Green Premium product |
| RoHS (date code: YYWW) | Compliant - since 1002 - Schneider Electric declaration of conformity 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 $\text{Ø } 4.3 \times 6.3$ mm on 22 mm centres, 2 holes $\text{Ø } 4.3$ on 20 mm centres.
- (3) 2 x $\text{Ø } 3$ holes for support studs, depth 4 mm.

Mounting with Cable Entry

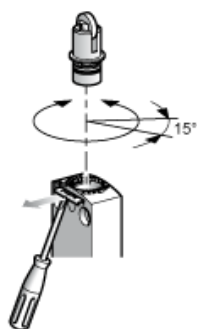
Position of Cable Gland



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

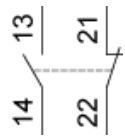
Setting-up

Plunger or Multi-directional Heads



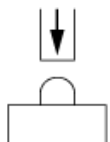
Wiring Diagram

2-pole NC + NO Snap Action

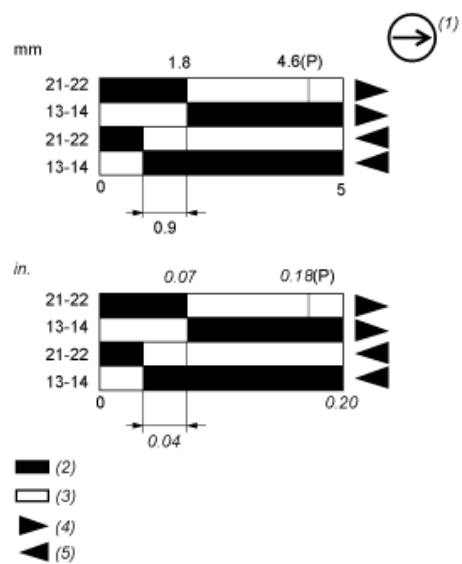


Characteristics of Actuation

Switch Actuation on End



Functionnal Diagram



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