# Product datasheet

Specifications

**Green Premium™**

## limit switch XCR - thermoplastic spring return roller lever large - 2X(1NC+NO)

**Local distributor code: 2202084**     XCRA15

## Main

| | |
|---|---|
| **Range of product** | OsiSense XC |
| **Series name** | Special format |
| **Product or component type** | Limit switch |
| **Product specific application** | For hoisting and mechanical handling applications |
| **Device short name** | XCR |
| **Sensor design** | - |
| **Body type** | Fixed |
| **Head type** | Rotary head |
| **Material** | Metal |
| **Fixing mode** | By the body |
| **Movement of operating head** | Rotary |
| **Type of operator** | Spring return roller lever thermoplastic large |
| **Type of approach** | Lateral approach, 2 directions |
| **Electrical connection** | Screw-clamp terminals, clamping capacity: 1 x 0.34...2 x 1.5 mm² |
| **Number of poles** | 4 |
| **Contacts type and composition** | 2 x (1 NC + 1 NO) |
| **Contact operation** | Snap action |
| **Contact block per direction [control circuit]** | 2 per direction |
| **Positive opening** | With |

## Complementary

| | |
|---|---|
| **Body material** | Zinc alloy |
| **Switch actuation** | By any moving part |
| **Cable entry** | 1 entry tapped for Pg 13.5 cable gland, cable outer diameter: 9…12 mm conforming to NF C 68-300 |
| **Contacts insulation form** | Zb |
| **Number of steps** | 1 |
| **Positive opening minimum torque** | 0.75 N.m |
| **Minimum torque for tripping** | 0.45 N.m |

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|---|---|
| **Minimum actuation speed** | 0.01 m/min |
| **Maximum actuation speed** | 1.5 m/s |
| **Maximum displacement angle** | -55 °<br>55 ° |
| **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 |
| **[Ui] rated insulation voltage** | 300 V conforming to UL 508<br>500 V (pollution degree 3) conforming to IEC 60947-1<br>500 V (pollution degree 3) conforming to VDE 0110<br>300 V conforming to CSA C22.2 No 14 |
| **Maximum resistance across terminals** | 25 MOhm conforming to IEC 60255-7 category 3 |
| **[Uimp] rated impulse withstand voltage** | 6 kV conforming to IEC 60664<br>6 kV conforming to IEC 60947-1 |
| **Short-circuit protection** | 10 A cartridge fuse, type gG |
| **Electrical durability** | 5000000 cycles, DC-13, inductive load type, 120 V, 4 W, operating rate <60 cyc/mn, load factor: 0.5 conforming to IEC 60947-5-1 appendix C<br>5000000 cycles, DC-13, inductive load type, 24 V, 7 W, operating rate <60 cyc/mn, load factor: 0.5 conforming to IEC 60947-5-1 appendix C<br>5000000 cycles, DC-13, inductive load type, 48 V, 10 W, operating rate <60 cyc/mn, load factor: 0.5 conforming to IEC 60947-5-1 appendix C |
| **Mechanical durability** | 10000000 cycles |
| **Width** | 85 mm |
| **Height** | 95 mm |
| **Depth** | 75 mm |
| **Net weight** | 1.155 kg |
| **Terminals description ISO n°1** | (13-14)NO<br>(21-22)NC |

## Environment

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|---|---|
| **Shock resistance** | 68 gn conforming to IEC 60068-2-27 |
| **Vibration resistance** | 9 gn (f= 10…500 Hz) conforming to IEC 60068-2-6 |
| **IP degree of protection** | IP54 conforming to IEC 60529 |
| **Overvoltage category** | 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 |
| **Standards** | EN 60947-5-1<br>EN 60204-1<br>IEC 60947-5-1<br>IEC 60204-1<br>NF C 79-130<br>CSA C22.2 No 14 |

## Packing Units

| | |
|---|---|
| **Unit Type of Package 1** | PCE |
| **Number of Units in Package 1** | 1 |
| **Package 1 Weight** | 1.081 kg |
| **Package 1 Height** | 9.2 cm |
| **Package 1 width** | 11.5 cm |

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| | |
|---|---|
| **Package 1 Length** | 21.2 cm |
| **Unit Type of Package 2** | S02 |
| **Number of Units in Package 2** | 5 |
| **Package 2 Weight** | 5.868 kg |
| **Package 2 Height** | 15 cm |
| **Package 2 width** | 30 cm |
| **Package 2 Length** | 40 cm |
| **Unit Type of Package 3** | P06 |
| **Number of Units in Package 3** | 80 |
| **Package 3 Weight** | 103.6 kg |
| **Package 3 Height** | 77 cm |
| **Package 3 width** | 80 cm |
| **Package 3 Length** | 60 cm |

## Offer Sustainability

| | |
|---|---|
| **Sustainable offer status** | Green Premium product |
| **REACh Regulation** | REACh Declaration |
| **EU RoHS Directive** | Pro-active compliance (Product out of EU RoHS legal scope) EU RoHS Declaration |
| **Mercury free** | Yes |
| **RoHS exemption information** | Yes |
| **Environmental Disclosure** | Product Environmental Profile |

## Contractual warranty

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|---|---|
| **Warranty** | 18 months |

## Dimensions
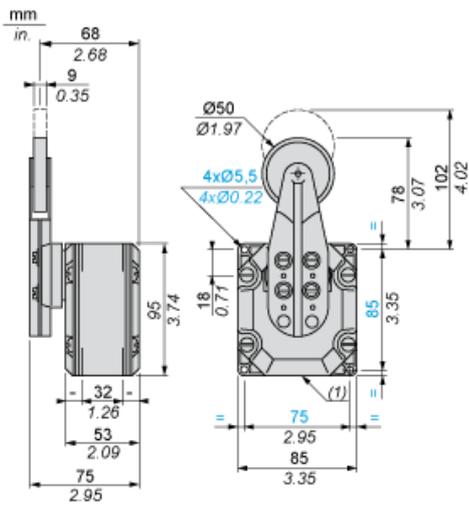


**(1)**      1 tapped entry for n° 13 cable gland.

## Wiring Diagram

### Two 2-pole NC + NO Snap Action
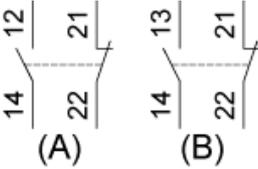


| | |
|---|---|
| **(A)** | 1st contact |
| **(B)** | 2nd contact |

## Functionnal Diagram
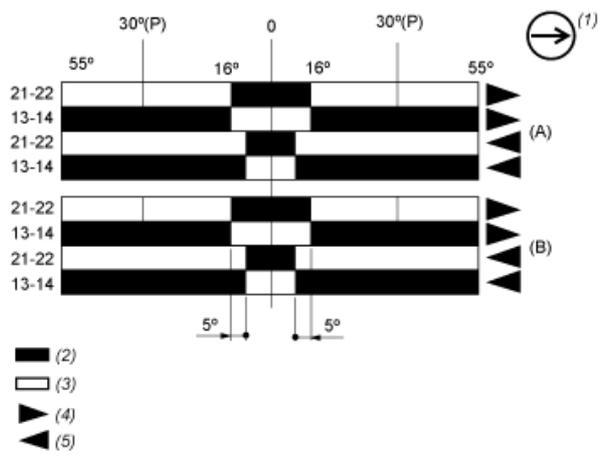


| | |
|---|---|
| **(P)** | Positive opening point |
| **(A)** | 1st contact |
| **(B)** | 2nd contact |
| **(1)** | NC contact with positive opening operation |
| **(2)** | Closed |
| **(3)** | Open |
| **(4)** | Tripping |
| **(5)** | Resetting |