

# XCRA11

limit switch XCR - metal spring return rod lever  
square rod 6 mm - 2X(1NC+NO)



## 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 rod lever metal square rod 6 mm                                |
| Type of approach                              | Lateral approach, 2 directions                                               |
| Electrical connection                         | Screw-clamp terminals, clamping capacity: 1 x 0.34...2 x 1.5 mm <sup>2</sup> |
| 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                                                                                                                                                                       |
| 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 | IEC 60664 6 kV<br>IEC 60947-1 6 kV                                                                                                                                             |
| 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                    | 1.11 kg                                                                                                                                                                                                                                                                                                                                                                                                                               |
| Terminals description ISO n°1 | (13-14)NO<br>(21-22)NC                                                                                                                                                                                                                                                                                                                                                                                                                |

## Environment

|                                       |                                                                                              |
|---------------------------------------|----------------------------------------------------------------------------------------------|
| 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                | CSA<br>CCC                                                                                   |
| Standards                             | EN 60947-5-1<br>IEC 60947-5-1<br>EN 60204-1<br>IEC 60204-1<br>CSA C22.2 No 14<br>NF C 79-130 |

## Packing Units

|                              |          |
|------------------------------|----------|
| Unit Type of Package 1       | PCE      |
| Number of Units in Package 1 | 1        |
| Package 1 Weight             | 1.03 kg  |
| Package 1 Height             | 9.5 cm   |
| Package 1 width              | 12 cm    |
| Package 1 Length             | 21.5 cm  |
| Unit Type of Package 2       | S02      |
| Number of Units in Package 2 | 5        |
| Package 2 Weight             | 5.432 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             | 99.3 kg  |
| Package 3 Height             | 77 cm    |
| Package 3 width              | 80 cm    |
| Package 3 Length             | 60 cm    |

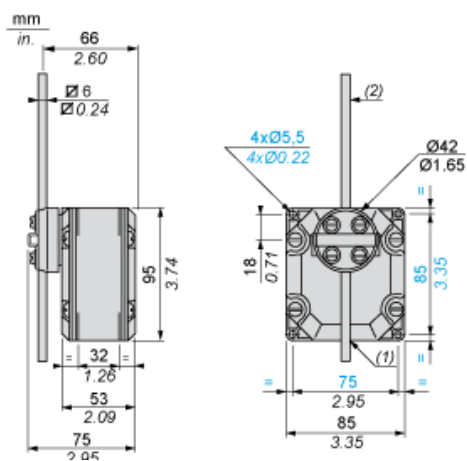
## Offer Sustainability

|                            |                                                                                                                                                                                    |
|----------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Sustainable offer status   | Green Premium product                                                                                                                                                              |
| REACH Regulation           | <a href="#"> REACH Declaration</a>                                                                |
| EU RoHS Directive          | Pro-active compliance (Product out of EU RoHS legal scope) <a href="#"> EU RoHS Declaration</a> |
| Mercury free               | Yes                                                                                                                                                                                |
| RoHS exemption information | <a href="#"> Yes</a>                                                                              |
| Environmental Disclosure   | <a href="#"> Product Environmental Profile</a>                                                    |

## Contractual warranty

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

## Dimensions

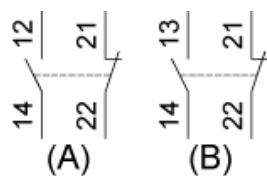


---

## Wiring Diagram

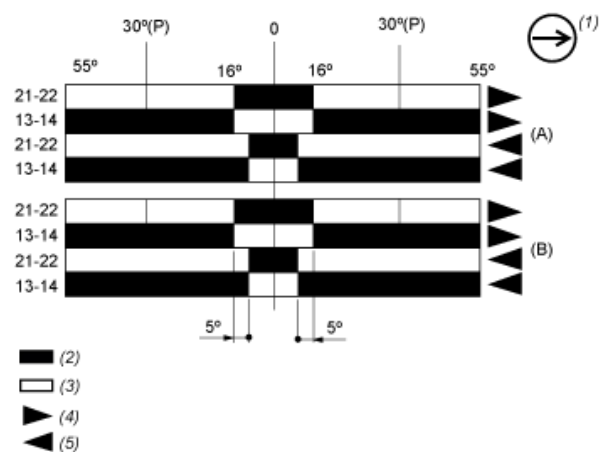
---

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



- (A) 1<sup>st</sup> contact  
(B) 2<sup>nd</sup> 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