

# Product data sheet

Specifications



Limit switch, Limit switches XC Standard, XCR, thermoplastic spring return roller lever large, 2X(1NC +NO)

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 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  |

|   |   |
|---|---|
| <b>Minimum actuation speed</b>                | 0.01 m/min  |
| <b>Maximum actuation speed</b>                | 1.5 m/s   |
| <b>Maximum displacement angle</b>             | -55 °<br>55 °   |
| <b>Contact code designation</b>               | 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   |
| <b>[Ui] rated insulation voltage</b>          | 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  |
| <b>Maximum resistance across terminals</b>    | 25 MOhm conforming to IEC 60255-7 category 3  |
| <b>[Uimp] rated impulse withstand voltage</b> | 6 kV conforming to IEC 60664<br>6 kV conforming to IEC 60947-1  |
| <b>Short-circuit protection</b>               | 10 A cartridge fuse, type gG  |
| <b>Electrical durability</b>                  | 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 |
| <b>Mechanical durability</b>                  | 10000000 cycles   |
| <b>Width</b>                                  | 85 mm   |
| <b>Height</b>                                 | 95 mm   |
| <b>Depth</b>                                  | 75 mm   |
| <b>Net weight</b>                             | 1.155 kg  |
| <b>Terminals description ISO n°1</b>          | (13-14)NO<br>(21-22)NC  |

## Environment

|  |  |
|--|--|
| <b>Shock resistance</b>                      | 68 gn conforming to IEC 60068-2-27   |
| <b>Vibration resistance</b>                  | 9 gn (f= 10...500 Hz) conforming to IEC 60068-2-6  |
| <b>IP degree of protection</b>               | IP54 conforming to IEC 60529   |
| <b>Overvoltage category</b>                  | Class I conforming to IEC 61140<br>Class I conforming to NF C 20-030                         |
| <b>Ambient air temperature for operation</b> | -25...70 °C  |
| <b>Ambient air temperature for storage</b>   | -40...70 °C  |
| <b>Protective treatment</b>                  | TC   |
| <b>Product certifications</b>                | CCC<br>CSA   |
| <b>Standards</b>                             | 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

|                                     |          |
|-------------------------------------|----------|
| <b>Unit Type of Package 1</b>       | PCE      |
| <b>Number of Units in Package 1</b> | 1        |
| <b>Package 1 Weight</b>             | 1.096 kg |
| <b>Package 1 Height</b>             | 8 cm     |
| <b>Package 1 width</b>              | 10.3 cm  |

|                              |           |
|------------------------------|-----------|
| Package 1 Length             | 20.5 cm   |
| Unit Type of Package 2       | S02       |
| Number of Units in Package 2 | 5         |
| Package 2 Weight             | 5.935 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             | 106.66 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)<br><a href="#">EU RoHS Declaration</a>   |
| Mercury free               | Yes   |
| RoHS exemption information | <a href="#">Yes</a>   |
| Environmental Disclosure   | <a href="#">Product Environmental Profile</a>   |
| California proposition 65  | WARNING: This product can expose you to chemicals including: Diisononyl phthalate (DINP), which is known to the State of California to cause cancer, and Di-isodecyl phthalate (DIDP), which is known to the State of California to cause birth defects or other reproductive harm. For more information go to <a href="http://www.P65Warnings.ca.gov">www.P65Warnings.ca.gov</a> |

## Contractual warranty

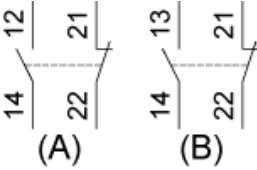
|          |           |
|----------|-----------|
| Warranty | 18 months |
|----------|-----------|



**Wiring Diagram**

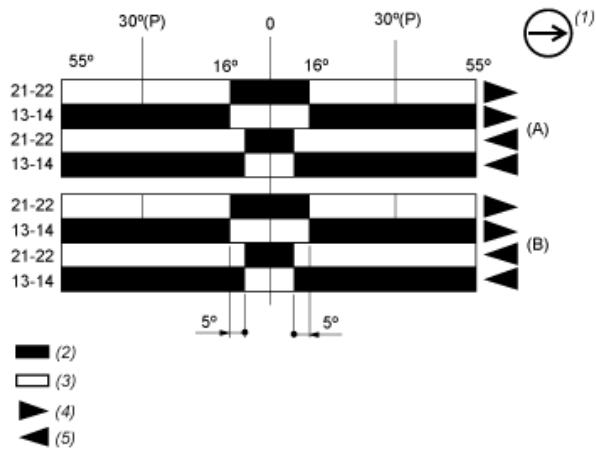
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**Two 2-pole NC + NO Snap Action**



- (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