

# XCRES58

Limit switch, Limit switches XC Standard, XCR, metal stay put crossed rods 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                              | Stay put crossed rods lever metal square rod 6 mm                           |
| Type of approach                              | Lateral approach, 2 directions                                              |
| Electrical connection                         | Screw-clamp terminals, clamping capacity: 1 x 0.5...2 x 2.5 mm <sup>2</sup> |
| Number of poles                               | 4                                                                           |
| Contacts type and composition                 | 2 x (1 NC + 1 NO)                                                           |
| Contact operation                             | Slow-break, break before make                                               |
| 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        | 0.7 N.m                                                                                                                                                                        |
| Minimum torque for tripping            | 0.6 N.m                                                                                                                                                                        |
| Minimum actuation speed                | 6 m/min                                                                                                                                                                        |
| Maximum actuation speed                | 1.5 m/s                                                                                                                                                                        |
| Maximum displacement angle             | 90 °<br>-90 °                                                                                                                                                                  |
| Contact code designation               | A300, AC-15 (Ue = 240 V), Ie = 3 A conforming to IEC 60947-5-1 appendix A<br>Q300, DC-13 (Ue = 250 V), Ie = 0.27 A conforming to 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                    | 1.135 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                | CCC[RETURN]CSA                                                                                 |
| Standards                             | IEC 60204-1<br>IEC 60947-5-1<br>CSA C22.2 No 14<br>IEC 60204-1<br>IEC 60947-5-1<br>NF C 79-130 |

## Packing Units

|                              |           |
|------------------------------|-----------|
| Unit Type of Package 1       | PCE       |
| Number of Units in Package 1 | 1         |
| Package 1 Height             | 8.600 cm  |
| Package 1 Width              | 10.200 cm |
| Package 1 Length             | 20.600 cm |
| Package 1 Weight             | 1.040 kg  |
| Unit Type of Package 2       | S02       |
| Number of Units in Package 2 | 5         |
| Package 2 Height             | 15.000 cm |
| Package 2 Width              | 30.000 cm |
| Package 2 Length             | 40.000 cm |
| Package 2 Weight             | 5.578 kg  |

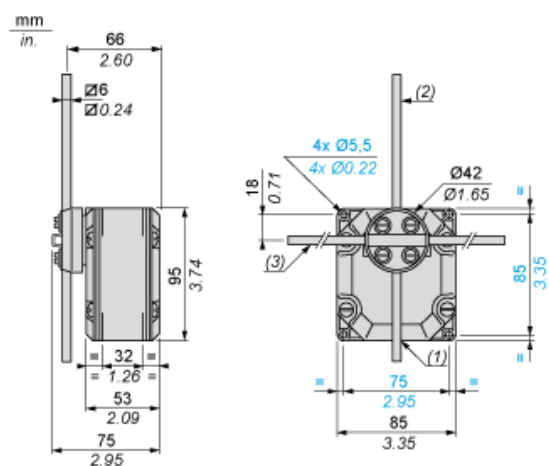
## Offer Sustainability

|                                            |                                                                                                                                                                                                                                                                                                                                                                                   |
|--------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Sustainable offer status                   | Green Premium product                                                                                                                                                                                                                                                                                                                                                             |
| Circularity Profile                        | No need of specific recycling operations                                                                                                                                                                                                                                                                                                                                          |
| 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> |
| For all Reach Rohs enquiries contact us at | <a href="mailto:sustainability@tesensors.com">sustainability@tesensors.com</a>                                                                                                                                                                                                                                                                                                    |

## Contractual warranty

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

## Dimensions



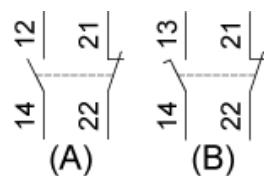
- (1) 1 tapped entry for n° 13 cable gland.
- (2) Rod length: 200 mm.
- (3) Rod length: 200 mm.

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## Wiring Diagram

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Two 2-pole NC + NO Break Before Make, Slow Break



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

## Functionnal Diagram

