

### Main

|                              |                                         |
|------------------------------|-----------------------------------------|
| Range of product             | OsiSense XC                             |
| Series name                  | Special format                          |
| Product or component type    | Limit switch                            |
| Product specific application | For severe applications                 |
| Device short name            | XC2J                                    |
| Body type                    | Fixed                                   |
| Head type                    | Plunger head                            |
| Material                     | Metal                                   |
| Movement of operating head   | Linear                                  |
| Type of operator             | Metal end plunger                       |
| Switch actuation             | On end                                  |
| Type of approach             | Vertical approach, 1 direction          |
| Number of poles              | 1                                       |
| Contacts operation           | Snap action                             |
| Minimum force for tripping   | 18 N                                    |
| Maximum actuation speed      | 0.5 m/s                                 |
| Repeat accuracy              | 0.01 mm with 1 million operating cycles |

### Complementary

|                               |                                                                                                                                                                                                                                                                                                                              |
|-------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Fixing mode                   | By the body                                                                                                                                                                                                                                                                                                                  |
| Electrical connection         | Screw-clamp terminals, 1 x 0.5...2 x 2.5 mm <sup>2</sup>                                                                                                                                                                                                                                                                     |
| Cable entry                   | 1 entry incorporating cable gland, cable outer diameter: 6...13.5 mm                                                                                                                                                                                                                                                         |
| Contacts insulation form      | Za                                                                                                                                                                                                                                                                                                                           |
| Contacts material             | Silver plated contacts                                                                                                                                                                                                                                                                                                       |
| Positive opening              | Without                                                                                                                                                                                                                                                                                                                      |
| Minimum actuation speed       | 0.001 m/min                                                                                                                                                                                                                                                                                                                  |
| Contact code designation      | DC-13 Q300(Ue = 250 V, Ie = 0.27 A) EN/IEC 60947-5-1<br>AC-15 A300(Ue = 240 V, Ie = 3 A) Ithe = 10 A EN/IEC 60947-5-1                                                                                                                                                                                                        |
| [Ui] rated insulation voltage | 300 V conforming to CSA C22.2 No 14<br>500 V conforming to NF C 20-040 group C<br>500 V conforming to IEC 60947-5-1                                                                                                                                                                                                          |
| Resistance across terminals   | <= 25 MOhm conforming to NF C 93-050 method A<br><= 25 MOhm conforming to IEC 60255-7 category 3                                                                                                                                                                                                                             |
| Short circuit protection      | 10 A by cartridge fuse, type gG                                                                                                                                                                                                                                                                                              |
| Electrical durability         | 5000000 cycles DC-13, 48 V 7 W, <= 3600 cyc/h, load factor: 0.5 conforming to IEC 60947-5-1 appendix C<br>5000000 cycles DC-13, 24 V 10 W, <= 3600 cyc/h, load factor: 0.5 conforming to IEC 60947-5-1 appendix C<br>5000000 cycles DC-13, 120 V 4 W, <= 3600 cyc/h, load factor: 0.5 conforming to IEC 60947-5-1 appendix C |
| Mechanical durability         | 30000000 cycles                                                                                                                                                                                                                                                                                                              |
| Width                         | 40 mm                                                                                                                                                                                                                                                                                                                        |
| Height                        | 112 mm                                                                                                                                                                                                                                                                                                                       |
| Depth                         | 41 mm                                                                                                                                                                                                                                                                                                                        |
| Product weight                | 0.6 kg                                                                                                                                                                                                                                                                                                                       |
| Terminals description ISO n°1 | (13-14-11-12)OF                                                                                                                                                                                                                                                                                                              |

## Environment

|                                            |                                                                              |
|--------------------------------------------|------------------------------------------------------------------------------|
| Shock resistance                           | 25 gn for 18 ms conforming to IEC 60068-2-27                                 |
| Vibration resistance                       | 10 gn (f = 10...500 Hz) conforming to IEC 60068-2-6                          |
| IP degree of protection                    | IP657 conforming to NF C 20-010<br>IP65 conforming to IEC 60529              |
| IK degree of protection                    | IK08                                                                         |
| Class of protection against electric shock | Class I conforming to NF C 20-030<br>Class I conforming to IEC 60536         |
| Ambient air temperature for operation      | -25...70 °C                                                                  |
| Ambient air temperature for storage        | -40...70 °C                                                                  |
| Protective treatment                       | TC                                                                           |
| Product certifications                     | CSA<br>DEMKO<br>NEMKO                                                        |
| Standards                                  | EN/IEC 60947-5-1<br>IEC 60337-1<br>UL 508<br>VDE 0660-200<br>CSA C22.2 No 14 |

## Offer Sustainability

|                                  |                                                                                       |
|----------------------------------|---------------------------------------------------------------------------------------|
| Sustainable offer status         | Green Premium product                                                                 |
| RoHS (date code: YYWW)           | Compliant - since 1014 - <a href="#">Schneider Electric declaration of conformity</a> |
| REACH                            | Reference not containing SVHC above the threshold                                     |
| Product environmental profile    | Available <a href="#">Download Product Environmental</a>                              |
| Product end of life instructions | Need no specific recycling operations                                                 |

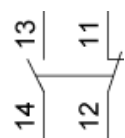
- (1) Fixing from the rear: by 2 M5 screws. Depth of thread on switch: 10 mm.
- (2) Fixing from the front via 2 holes Ø 5.5.

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## Wiring Diagram

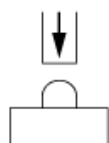
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### Single-pole CO Snap Action

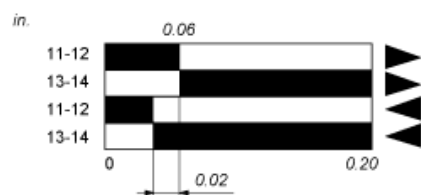
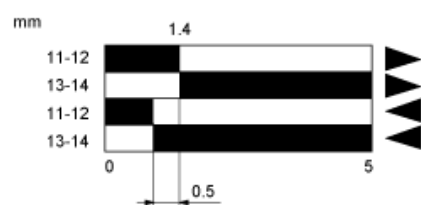


## Characteristics of Actuation

### Switch Actuation on End



## Functionnal Diagram



- (1) Closed
- (2) Open
- (3) Tripping
- (4) Resetting