



## Main

|                               |   |
|-------------------------------|---|
| Range of product              | OsiSense XC   |
| Series name                   | Special format  |
| Product or component type     | Limit switch  |
| Product specific application  | Materials handling  |
| Device short name             | XC1AC   |
| Sensor design                 | -   |
| Body type                     | Fixed   |
| Head type                     | Plunger head  |
| Material                      | Metal   |
| Fixing mode                   | By the body   |
| Movement of operating head    | Linear  |
| Type of operator              | Spring return ball bearing plunger metal                                    |
| Switch actuation              | By 30° cam  |
| Type of approach              | Multi-directional approach  |
| Electrical connection         | Screw-clamp terminals, clamping capacity: 1 x 0.5...1 x 2.5 mm <sup>2</sup> |
| Cable entry                   | 3 entries tapped for Pg 13.5 cable gland, cable outer diameter: 9...12 mm   |
| Number of poles               | 2   |
| Contacts type and composition | 2 NO  |
| Contact operation             | Slow-break, simultaneous  |
| Number of steps               | 1   |
| Positive opening              | Without   |

## Complementary

|  |  |
|--|--|
| Contacts insulation form                                 | Zb   |
| Maximum actuation speed                                  | 0.5 m/s  |
| [I <sub>th</sub> ] conventional enclosed thermal current | 10 A   |
| [U <sub>i</sub> ] rated insulation voltage               | 500 V AC conforming to IEC 60947-5-1<br>500 V AC conforming to NF C 20-040<br>600 V DC conforming to IEC 60947-5-1<br>600 V DC conforming to NF C 20-040<br>600 V AC conforming to CSA C22.2 No 14 |

|                                     |   |
|-------------------------------------|---|
| Maximum resistance across terminals | 8 mOhm  |
| Short-circuit protection            | 10 A cartridge fuse, type gG  |
| Electrical durability               | 1000000 cycles, AC-15 f = 50/60 Hz, inductive load type, 110 V, 900 VA, operating rate <60 cyc/mn, load factor: 0.5 conforming to IEC 60947-5-1 appendix C<br>1000000 cycles, AC-15 f = 50/60 Hz, inductive load type, 230 V, 1900 VA, operating rate <60 cyc/mn, load factor: 0.5 conforming to IEC 60947-5-1 appendix C<br>1000000 cycles, AC-15 f = 50/60 Hz, inductive load type, 48 V, 450 VA, operating rate <60 cyc/mn, load factor: 0.5 conforming to IEC 60947-5-1 appendix C<br>1000000 cycles, DC-13, inductive load type, 110 V, 100 W, operating rate <60 cyc/mn, load factor: 0.5 conforming to IEC 60947-5-1 appendix C<br>1000000 cycles, DC-13, inductive load type, 230 V, 95 W, operating rate <60 cyc/mn, load factor: 0.5 conforming to IEC 60947-5-1 appendix C<br>1000000 cycles, DC-13, inductive load type, 48 V, 100 W, operating rate <60 cyc/mn, load factor: 0.5 conforming to IEC 60947-5-1 appendix C<br>3000000 cycles, AC-15 f = 50/60 Hz, inductive load type, 110 V, 350 VA, operating rate <60 cyc/mn, load factor: 0.5 conforming to IEC 60947-5-1 appendix C<br>3000000 cycles, AC-15 f = 50/60 Hz, inductive load type, 230 V, 430 VA, operating rate <60 cyc/mn, load factor: 0.5 conforming to IEC 60947-5-1 appendix C<br>3000000 cycles, AC-15 f = 50/60 Hz, inductive load type, 48 V, 170 VA, operating rate <60 cyc/mn, load factor: 0.5 conforming to IEC 60947-5-1 appendix C<br>3000000 cycles, DC-13, inductive load type, 110 V, 40 W, operating rate <60 cyc/mn, load factor: 0.5 conforming to IEC 60947-5-1 appendix C<br>3000000 cycles, DC-13, inductive load type, 230 V, 33 W, operating rate <60 cyc/mn, load factor: 0.5 conforming to IEC 60947-5-1 appendix C<br>3000000 cycles, DC-13, inductive load type, 48 V, 35 W, operating rate <60 cyc/mn, load factor: 0.5 conforming to IEC 60947-5-1 appendix C |
| Mechanical durability               | 10000000 cycles   |
| Width                               | 77 mm   |
| Height                              | 130 mm  |
| Depth                               | 44 mm   |
| Product weight                      | 0.53 kg   |
| Terminals description ISO n°1       | (13-14)NO<br>(23-24)NO  |

## Environment

|                                       |   |
|---------------------------------------|---|
| Shock resistance                      | 95 gn for 11 ms conforming to IEC 60068-2-27                                    |
| Vibration resistance                  | 9 gn (f= 10...500 Hz) conforming to IEC 60068-2-6                               |
| IP degree of protection               | IP65 conforming to IEC 60529<br>IP65 conforming to NF C 20-010                  |
| Electrical shock protection class     | 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  |
| Operating position                    | Any position  |
| Product certifications                | CSA   |
| Standards                             | IEC 60337-1<br>IEC 60947-5-1<br>EN 60947-5-1<br>CSA C22.2 No 14<br>VDE 0660-200 |

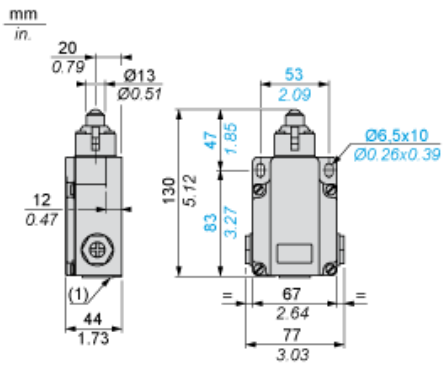
## Offer Sustainability

|                          |   |
|--------------------------|---|
| EU RoHS Directive        | Not applicable, out of EU RoHS legal scope    |
| Environmental Disclosure | <a href="#">Product Environmental Profile</a> |
| Circularity Profile      | No need of specific recycling operations      |

## Contractual warranty

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

Dimensions

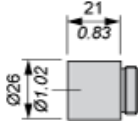


- (1) 3 tapped entries for Pg 13.5 cable gland

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Adaptator Dimensions for ISO M20 x 1.5

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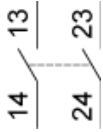


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## Wiring Diagram

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2-pole NO + NO Simultaneous, Slow Break

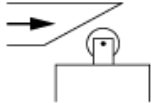


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Characteristics of Actuation

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Switch Actuation by 30° Cam



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Functionnal Diagram

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