

Microswitch, Limit switches XC Standard,  
miniature limit switch, low force cont., flat lever,  
solder tags



## Main

|                               |                               |
|-------------------------------|-------------------------------|
| Range of product              | OsiSense XC                   |
| Series name                   | Special format                |
| Product or component type     | Microswitch                   |
| Device short name             | XEP3                          |
| Detector design               | Miniature, DIN 41635 A format |
| Head type                     | Plunger head                  |
| Lever material                | Stainless steel               |
| Lever fixing position         | B                             |
| Movement of operating head    | Linear                        |
| Type of operator              | Flat lever                    |
| Switch actuation              | Horizontal                    |
| Type of approach              | Lateral approach              |
| Electrical connection         | Solder tags                   |
| Contacts type and composition | 1 C/O very low force          |
| Contact operation             | Snap action                   |
| Contacts material             | AgNi                          |

## Complementary

|                                             |                                                                                                                                                            |
|---------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Body material                               | Polyester                                                                                                                                                  |
| Maximum force for tripping                  | 0.06 N lever fixing position in A<br>0.13 N lever fixing position in B<br>0.17 N lever fixing position in C                                                |
| Minimum release force                       | 0.01 N lever fixing position in A<br>0.03 N lever fixing position in B<br>0.03 N lever fixing position in C                                                |
| Maximum permissible end of travel force     | 10 N lever fixing position in B<br>13 N lever fixing position in C<br>5 N lever fixing position in A                                                       |
| Tripping point                              | 15.2 Mm lever fixing position in A<br>15.2 Mm lever fixing position in B<br>15.2 mm lever fixing position in C                                             |
| Maximum differential travel                 | 0.53 Mm lever fixing position in C<br>0.7 Mm lever fixing position in B<br>1.4 mm lever fixing position in A                                               |
| Minimum over travel                         | 1.65 Mm lever fixing position in C<br>2.2 Mm lever fixing position in B<br>4.4 mm lever fixing position in A                                               |
| Inter contact distance                      | 0.4 mm                                                                                                                                                     |
| Contact code designation                    | B300, AC-15 (Ue = 240 V, Ie = 1.5 A) conforming to IEC 60947-5-1 appendix A<br>D300, AC-15 (Ue = 240 V, Ie = 0.3 A) conforming to IEC 60947-5-1 appendix A |
| [Ith] conventional free air thermal current | 5 A at 250 V 50/60 Hz                                                                                                                                      |
| Mechanical durability                       | 50000000 cycles                                                                                                                                            |
| Width                                       | 10 mm                                                                                                                                                      |
| Height                                      | 16 mm                                                                                                                                                      |
| Depth                                       | 28 mm                                                                                                                                                      |
| Net weight                                  | 6.3 g                                                                                                                                                      |
| Terminals description ISO n°1               | (1-2-4)OC                                                                                                                                                  |

## Environment

|                                       |                                                               |
|---------------------------------------|---------------------------------------------------------------|
| IP degree of protection               | IP40                                                          |
| Ambient air temperature for operation | -25...125 °C                                                  |
| Marking                               | CE                                                            |
| Standards                             | CURus<br>EN 61058<br>UL 1054<br>EN 60947-5-1<br>IEC 60947-5-1 |

## Packing Units

|                              |           |
|------------------------------|-----------|
| Unit Type of Package 1       | PCE       |
| Number of Units in Package 1 | 1         |
| Package 1 Height             | 1.000 cm  |
| Package 1 Width              | 3.000 cm  |
| Package 1 Length             | 4.500 cm  |
| Package 1 Weight             | 6.000 g   |
| Unit Type of Package 2       | BB1       |
| Number of Units in Package 2 | 10        |
| Package 2 Height             | 1.000 cm  |
| Package 2 Width              | 7.000 cm  |
| Package 2 Length             | 13.000 cm |
| Package 2 Weight             | 60.000 g  |
| Unit Type of Package 3       | S01       |
| Number of Units in Package 3 | 100       |
| Package 3 Height             | 15 cm     |
| Package 3 Width              | 15 cm     |
| Package 3 Length             | 40 cm     |
| Package 3 Weight             | 825.000 g |

## 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 |
|----------|-----------|

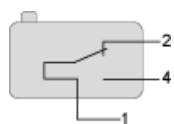


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## Wiring Diagram

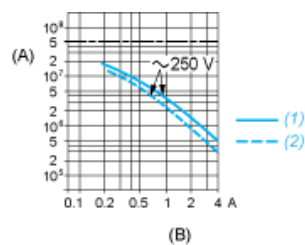
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### Single-pole CO Snap Action



- 1 : Black
- 2 : Grey
- 4 : Blue

## Operating Curves



- (A) Number of cycles  
(B) Current  
1 : Resistive circuit  
2 : Inductive circuit