

## Inductive sensor

IS-3002-BPOG/20m

Article no longer available - archive entry



## Product characteristics

|                    |               |
|--------------------|---------------|
| Electrical design  | PNP           |
| Output function    | normally open |
| Sensing range [mm] | 2             |
| Housing            | rectangular   |
| Dimensions [mm]    | 28 x 10 x 16  |

## Electrical data

|                             |                                         |
|-----------------------------|-----------------------------------------|
| Operating voltage [V]       | 10...36 DC; ("supply class 2" to cULus) |
| Current consumption [mA]    | 15; (24 V)                              |
| Protection class            | III                                     |
| Reverse polarity protection | no                                      |

## Outputs

|                                                      |               |
|------------------------------------------------------|---------------|
| Electrical design                                    | PNP           |
| Output function                                      | normally open |
| Max. voltage drop switching output DC [V]            | 1             |
| Permanent current rating of switching output DC [mA] | 200           |
| Switching frequency DC [Hz]                          | 800           |
| Short-circuit protection                             | no            |
| Overload protection                                  | no            |

## Detection zone

|                            |               |
|----------------------------|---------------|
| Sensing range [mm]         | 2             |
| Real sensing range Sr [mm] | $2 \pm 10 \%$ |
| Operating distance [mm]    | 0...1.6       |

# IS5013



## Inductive sensor

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### Accuracy / deviations

|                              |                                                                             |          |
|------------------------------|-----------------------------------------------------------------------------|----------|
| Correction factor            | steel: 1 / stainless steel: 0.7 / brass: 0.4 / aluminium: 0.3 / copper: 0.2 |          |
| Hysteresis [% of Sr]         |                                                                             | 1...15   |
| Switch point drift [% of Sr] |                                                                             | -10...10 |

### Operating conditions

|                          |          |
|--------------------------|----------|
| Ambient temperature [°C] | -25...80 |
| Protection               | IP 67    |

### Tests / approvals

|              |              |         |
|--------------|--------------|---------|
| EMC          | EN 60947-5-2 |         |
|              | EN 55011     | class B |
| MTTF [years] | 3044         |         |

### Mechanical data

|                        |                      |  |
|------------------------|----------------------|--|
| Housing                | rectangular          |  |
| Mounting               | flush mountable      |  |
| Dimensions [mm]        | 28 x 10 x 16         |  |
| Materials              | PBT                  |  |
| Tightening torque [Nm] | < 0.5; (with washer) |  |

### Displays / operating elements

|         |                  |                 |
|---------|------------------|-----------------|
| Display | switching status | 1 x LED, yellow |
|---------|------------------|-----------------|

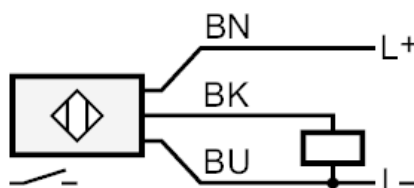
### Remarks

|               |        |
|---------------|--------|
| Pack quantity | 1 pcs. |
|---------------|--------|

### Electrical connection

Cable: 20 m, PVC; 3 x 0.14 mm<sup>2</sup>

### Connection



Core colours :  
BN = brown  
BU = blue  
BK = black