

## Inductive sensor

IIA2010-BBOW/SL

Article no longer available - archive entry



## Product characteristics

|                 |      |                 |
|-----------------|------|-----------------|
| Output function |      | normally closed |
| Sensing range   | [mm] | 10              |
| Housing         |      | threaded type   |
| Dimensions      | [mm] | M30 x 1.5       |

## Electrical data

|                             |      |             |
|-----------------------------|------|-------------|
| Frequency AC                | [Hz] | 47...63     |
| Operating voltage           | [V]  | 20...250 AC |
| Protection class            |      | II          |
| Reverse polarity protection |      | no          |

## Outputs

|                                                 |      |                        |
|-------------------------------------------------|------|------------------------|
| Output function                                 |      | normally closed        |
| Max. voltage drop switching output AC           | [V]  | 5.5                    |
| Minimum load current                            | [mA] | 5                      |
| Max. leakage current                            | [mA] | 2.5                    |
| Permanent current rating of switching output AC | [mA] | 300; (500 (...50 °C))  |
| Short-time current rating of switching output   | [mA] | 2200; (20 ms / 0,5 Hz) |
| Switching frequency AC                          | [Hz] | 20                     |
| Short-circuit protection                        |      | no                     |
| Overload protection                             |      | no                     |

## Detection zone

|               |      |    |
|---------------|------|----|
| Sensing range | [mm] | 10 |
|---------------|------|----|



## Inductive sensor

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|                       |      |           |
|-----------------------|------|-----------|
| Real sensing range Sr | [mm] | 10 ± 10 % |
| Operating distance    | [mm] | 0...8.1   |

### 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    |

### Mechanical data

|                    |      |                          |
|--------------------|------|--------------------------|
| Housing            |      | threaded type            |
| Mounting           |      | flush mountable          |
| Dimensions         | [mm] | M30 x 1.5                |
| Thread designation |      | M30 x 1.5                |
| Materials          |      | brass nickel-plated; PBT |

### Displays / operating elements

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

### Accessories

|                |  |              |
|----------------|--|--------------|
| Items supplied |  | lock nuts: 2 |
|----------------|--|--------------|

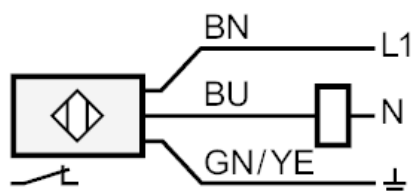
### Remarks

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

### Electrical connection

Cable: 2 m, PVC; 3 x 0.5 mm<sup>2</sup>

### Connection



Core colours :  
 BN = brown  
 BU = blue  
 GN/YE = green/yellow