



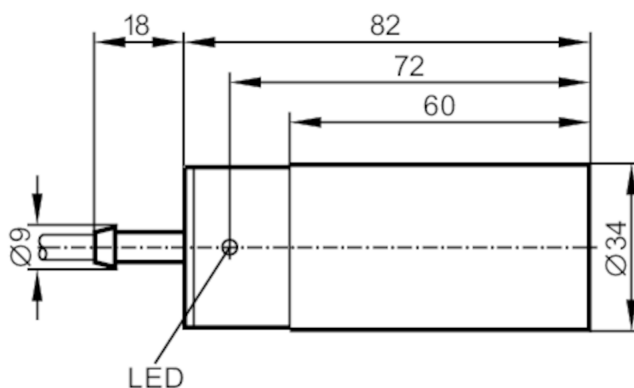
## Inductive sensor

IB-2020ZBBOA/Sonderkabel

Article no longer available - archive entry

Alternative articles: IB0088

When selecting an alternative article and accessories please note that technical data may differ!



## Product characteristics

|                 |      |                 |
|-----------------|------|-----------------|
| Output function |      | normally closed |
| Sensing range   | [mm] | 20              |
| Housing         |      | tubular         |
| Dimensions      | [mm] | Ø 34 / L = 82   |

## Electrical data

|                             |     |                |
|-----------------------------|-----|----------------|
| Operating voltage           | [V] | 20...250 AC/DC |
| Protection class            |     | II             |
| Reverse polarity protection |     | no             |

## Outputs

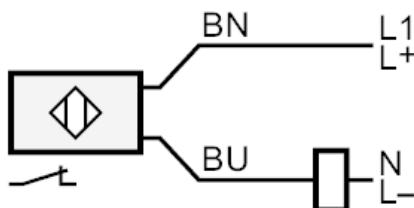
|                                                 |      |                                                 |
|-------------------------------------------------|------|-------------------------------------------------|
| Output function                                 |      | normally closed                                 |
| Max. voltage drop switching output DC           | [V]  | 6                                               |
| Max. voltage drop switching output AC           | [V]  | 6.5                                             |
| Minimum load current                            | [mA] | 5                                               |
| Max. leakage current                            | [mA] | 2.5 (250 V AC) / 1.3 (110 V AC) / 0.8 (24 V DC) |
| Permanent current rating of switching output AC | [mA] | 250; (350 (...50 °C))                           |
| Permanent current rating of switching output DC | [mA] | 100                                             |
| Short-time current rating of switching output   | [mA] | 2200; (20 ms / 0,5 Hz)                          |
| Switching frequency AC                          | [Hz] | 20                                              |
| Switching frequency DC                          | [Hz] | 70                                              |
| Short-circuit protection                        |      | no                                              |
| Overload protection                             |      | no                                              |



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| Monitoring range                               |                  |                                                                            |
|------------------------------------------------|------------------|----------------------------------------------------------------------------|
| Sensing range                                  | [mm]             | 20                                                                         |
| Real sensing range Sr                          | [mm]             | 20 ± 10 %                                                                  |
| Operating distance                             | [mm]             | 0...16.2                                                                   |
| Accuracy / deviations                          |                  |                                                                            |
| Correction factor                              |                  | steel: 1 / stainless steel: 0.7 / brass: 0.5 / aluminum: 0.4 / copper: 0.3 |
| Hysteresis                                     | [% of Sr]        | 3...15                                                                     |
| Switch-point drift                             | [% of Sr]        | -10...10                                                                   |
| Operating conditions                           |                  |                                                                            |
| Ambient temperature                            | [°C]             | -25...100                                                                  |
| Protection                                     |                  | IP 67                                                                      |
| Tests / approvals                              |                  |                                                                            |
| EMC                                            | EN 60947-5-2     |                                                                            |
|                                                | EN 55011         | class B                                                                    |
| Mechanical data                                |                  |                                                                            |
| Housing                                        |                  | tubular                                                                    |
| Mounting                                       |                  | non-flush mountable                                                        |
| Dimensions                                     | [mm]             | Ø 34 / L = 82                                                              |
| Material                                       |                  | PBT                                                                        |
| Displays / operating elements                  |                  |                                                                            |
| Display                                        | Switching status | 1 x LED, yellow                                                            |
| Accessories                                    |                  |                                                                            |
| Items supplied                                 |                  | Mounting clamp: 1                                                          |
| Remarks                                        |                  |                                                                            |
| Pack quantity                                  |                  | 1 pcs.                                                                     |
| Electrical connection                          |                  |                                                                            |
| Cable: 2 m, silicone; 2 x 0.75 mm <sup>2</sup> |                  |                                                                            |
| Connection                                     |                  |                                                                            |



BN = Core colors :  
brown  
BU = blue