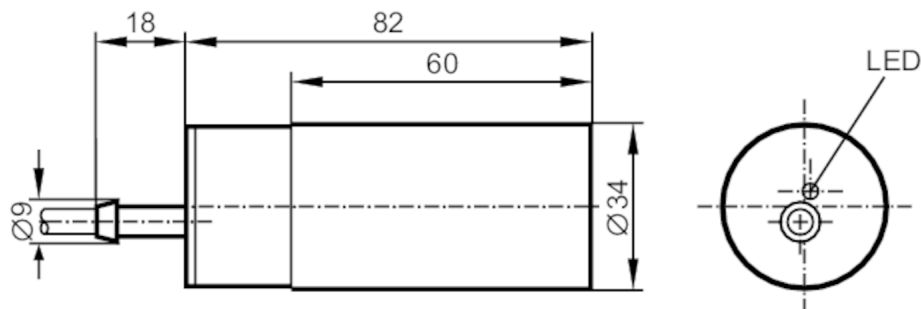




## Inductive sensor

IB-2020ZBBOA/15M



### 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] | 100; (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] | 25                                              |
| Switching frequency DC                          | [Hz] | 50                                              |
| Short-circuit proof                             |      | no                                              |
| Overload protection                             |      | no                                              |

### Detection zone

|                       |      |           |
|-----------------------|------|-----------|
| 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: 0.4 / aluminium: 0.4 / copper: 0.3 |
| Hysteresis         | [% of Sr] | 1...20                                                                      |
| Switch point drift | [% of Sr] | -10...10                                                                    |

### Operating conditions

|                     |      |           |
|---------------------|------|-----------|
| Ambient temperature | [°C] | -25...100 |
| Protection          |      | IP 67     |

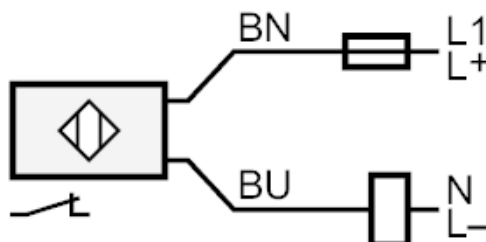
# IB0114



## Inductive sensor

IB-2020ZBBOA/15M

| Tests / approvals                   |                                                                               |                   |
|-------------------------------------|-------------------------------------------------------------------------------|-------------------|
| EMC                                 | EN 61000-4-2 ESD                                                              | 4 kV CD / 8 kV AD |
|                                     | EN 61000-4-3 HF radiated                                                      | 3 V/m             |
|                                     | EN 61000-4-4 Burst                                                            | 2 kV              |
|                                     | EN 61000-4-6 HF conducted                                                     | 3 V               |
|                                     | EN 55011 emission                                                             | class B           |
| MTTF                                | [years]                                                                       | 611               |
| Mechanical data                     |                                                                               |                   |
| Weight                              | [g]                                                                           | 845               |
| Housing                             | cylindrical                                                                   |                   |
| Mounting                            | non-flush mountable                                                           |                   |
| Dimensions                          | [mm]                                                                          | Ø 34 / L = 82     |
| Materials                           | housing: PBT; end cap: TPE                                                    |                   |
| Displays / operating elements       |                                                                               |                   |
| Display                             | switching status                                                              | 1 x LED, yellow   |
| Electrical connection               |                                                                               |                   |
| Required protection                 | miniature fuse to IEC60127-2 sheet 1; ≤ 2 A; fast acting                      |                   |
| Accessories                         |                                                                               |                   |
| Accessories (supplied)              | Mounting clamps: 1                                                            |                   |
| Remarks                             |                                                                               |                   |
| Remarks                             | Recommendation: Check the safe functioning of the unit after a short circuit. |                   |
| Pack quantity                       | 1 pcs.                                                                        |                   |
| Electrical connection               |                                                                               |                   |
| Cable: 15 m, silicone; 2 x 0.75 mm² |                                                                               |                   |
| Connection                          |                                                                               |                   |



Note miniature fuse to IEC60127-2 sheet 1 ≤ 2 A fast acting

Core colours :

BN = brown  
BU = blue