



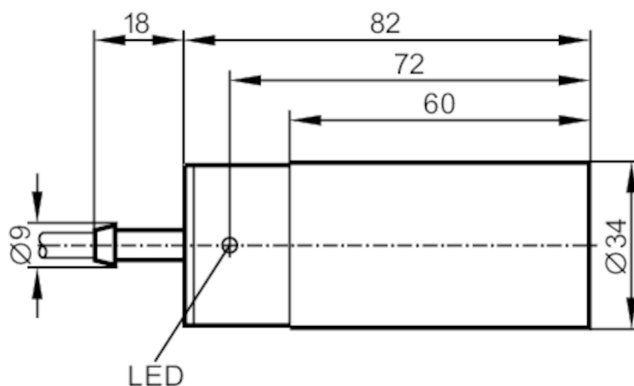
## Inductive sensor

IB-2020-BBOA/10M

Article no longer available - archive entry

Alternative articles: IB0017

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] | 25                                              |
| Switching frequency DC                          | [Hz] | 50                                              |
| Short-circuit proof                             |      | 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: 0.4 / aluminum: 0.4 / copper: 0.3  |
| 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]          | 610                                                                         |
| Mechanical data               |                  |                                                                             |
| Weight                        | [g]              | 0.539                                                                       |
| Housing                       |                  | tubular                                                                     |
| Mounting                      |                  | non-flush mountable                                                         |
| Dimensions                    | [mm]             | Ø 34 / L = 82                                                               |
| Material                      |                  | PBT                                                                         |
| 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                   |                  |                                                                             |
| Items supplied                |                  | Mounting clamp: 1                                                           |
| Remarks                       |                  |                                                                             |
| Remarks                       |                  | Recommendation: check the unit for reliable function after a short circuit. |
| Pack quantity                 |                  | 1 pcs.                                                                      |

# IB0019



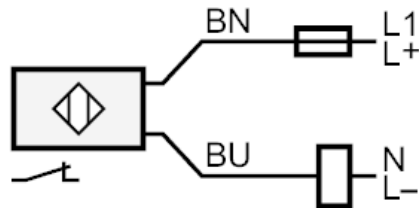
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### Electrical connection

Cable: 10 m, PVC; 2 x 0.5 mm<sup>2</sup>

### Connection



Note miniature fuse to IEC60127-2 sheet 1  $\leq$  2 A fast acting

Core colors :

BN =

brown

BU =

blue