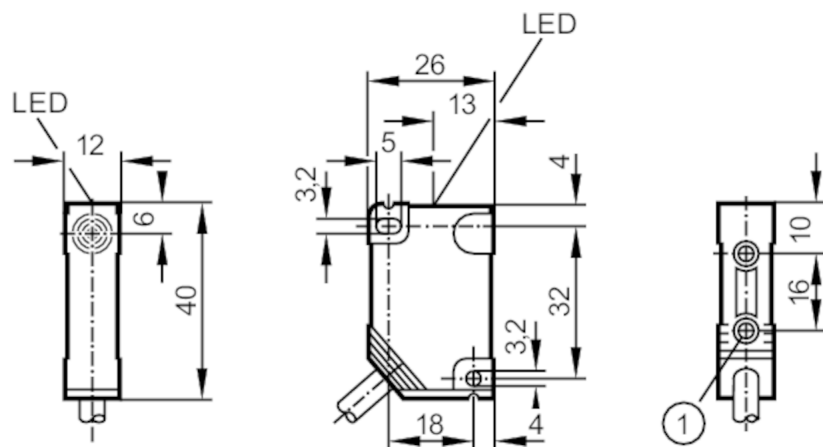




## Inductive sensor

IN-2004-BBOA/PPU

Article no longer available - archive entry



- 1 threaded bush M3 Depth 5.8 mm  
Tightening torque maximum 1.2 Nm screw fixing class 8.8  
when brass insert in contact with counterpart



## Product characteristics

|                    |                 |
|--------------------|-----------------|
| Output function    | normally closed |
| Sensing range [mm] | 4               |
| Housing            | rectangular     |
| Dimensions [mm]    | 40 x 12 x 26    |

## Electrical data

|                             |                |
|-----------------------------|----------------|
| Operating voltage [V]       | 20...250 AC/DC |
| Protection class            | II             |
| Reverse polarity protection | yes            |

## Outputs

|                                                      |                                                 |
|------------------------------------------------------|-------------------------------------------------|
| Output function                                      | normally closed                                 |
| Max. voltage drop switching output DC [V]            | 6                                               |
| Max. voltage drop switching output AC [V]            | 6.7                                             |
| Minimum load current [mA]                            | 5                                               |
| Max. leakage current [mA]                            | 2.0 (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; (50 ms / 1 Hz)                            |
| Switching frequency AC [Hz]                          | 25                                              |
| Switching frequency DC [Hz]                          | 50                                              |
| Short-circuit proof                                  | no                                              |

# IN0090



## Inductive sensor

IN-2004-BBOA/PPU

|                               |                                                                             |                              |
|-------------------------------|-----------------------------------------------------------------------------|------------------------------|
| Overload protection           | no                                                                          |                              |
| Monitoring range              |                                                                             |                              |
| Sensing range                 | [mm]                                                                        | 4                            |
| Real sensing range Sr         | [mm]                                                                        | 4 ± 10 %                     |
| Operating distance            | [mm]                                                                        | 0...3.25                     |
| Accuracy / deviations         |                                                                             |                              |
| Correction factor             | steel: 1 / stainless steel: 0.9 / brass: 0.6 / aluminum: 0.5 / copper: 0.4  |                              |
| Hysteresis                    | [% of Sr]                                                                   | 1...20                       |
| Switch-point drift            | [% of Sr]                                                                   | -10...10                     |
| Operating conditions          |                                                                             |                              |
| Ambient temperature           | [°C]                                                                        | -25...80                     |
| Protection                    | IP 67                                                                       |                              |
| 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 61000-4-5 Surge                                                          | 1 kV line to line, Ri: 2 Ohm |
|                               | EN 61000-4-6 HF conducted                                                   | 3 V                          |
|                               | EN 55011 emission                                                           | class B                      |
| MTTF                          | [years]                                                                     | 609                          |
| Mechanical data               |                                                                             |                              |
| Housing                       | rectangular                                                                 |                              |
| Mounting                      | non-flush mountable                                                         |                              |
| Dimensions                    | [mm]                                                                        | 40 x 12 x 26                 |
| 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                    |                              |
| Remarks                       |                                                                             |                              |
| Remarks                       | Recommendation: check the unit for reliable function after a short circuit. |                              |
| Pack quantity                 | 1 pcs.                                                                      |                              |

# IN0090



## Inductive sensor

IN-2004-BBOA/PPU

### Electrical connection

Cable: 2 m, PUR / 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