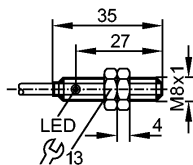


**IE5072**

IEB3001-BPOG

**Inductive sensors**


Made in Germany


**Product characteristics**

Inductive sensor

Metal thread M8 x 1

Cable

Sensing range 1 mm; [f] flush mountable

**Electrical data**

|                             |            |
|-----------------------------|------------|
| Electrical design           | DC PNP     |
| Operating voltage [V]       | 10...36 DC |
| Current consumption [mA]    | 15; (24 V) |
| Protection class            | III        |
| Reverse polarity protection | no         |

**Outputs**

|                          |               |
|--------------------------|---------------|
| Output function          | normally open |
| Voltage drop [V]         | < 1           |
| Current rating [mA]      | 200           |
| Short-circuit protection | no            |
| Overload protection      | no            |
| Switching frequency [Hz] | 750           |

**Range**

|                              |          |
|------------------------------|----------|
| Sensing range [mm]           | 1        |
| Real sensing range (Sr) [mm] | 1 ± 10 % |
| Operating distance [mm]      | 0...0.8  |

**Accuracy / deviations**

|                              |  |
|------------------------------|--|
| Correction factors           | mild steel = 1 / stainless steel approx. 0.7 / brass approx. 0.4 / Al approx. 0.3 / Cu approx. 0.2 |
| Hysteresis [% of Sr]         | 1...15   |
| Switch-point drift [% of Sr] | -10...10   |

**Environment**

|                          |          |
|--------------------------|----------|
| Ambient temperature [°C] | -25...80 |
| Protection               | IP 67    |

**Tests / approvals**

|              |                                   |
|--------------|-----------------------------------|
| EMC          | EN 60947-5-2<br>EN 55011: class B |
| MTTF [Years] | 5542                              |

**Mechanical data**

|                   |   |
|-------------------|---|
| Mounting          | flush mountable                             |
| Housing materials | Brass white bronze coated; active face: PBT |
| Weight [kg]       | 0.053                                       |

**Displays / operating elements**

## IE5072

IEB3001-BPOG

**Inductive sensors**

|                          |     |        |
|--------------------------|-----|--------|
| Output status indication | LED | yellow |
|--------------------------|-----|--------|

### Electrical connection

|            |   |
|------------|---|
| Connection | PVC cable / 2 m; 3 x 0.14 mm <sup>2</sup> |
|------------|---|

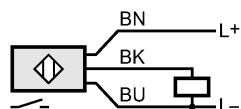
### Wiring

Core colours

BN brown

BU blue

BK black



### Accessories

|                        |             |
|------------------------|-------------|
| Accessories (included) | 2 lock nuts |
|------------------------|-------------|

### Remarks

|               |         |   |
|---------------|---------|---|
| Pack quantity | [piece] | 1 |
|---------------|---------|---|