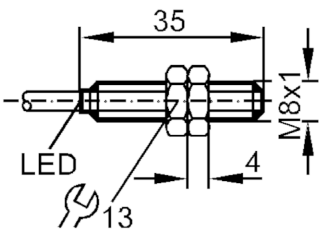




Inductive sensor

IEB3001-BPKG      RT



| Product characteristics                         |      |                 |
|-------------------------------------------------|------|-----------------|
| Electrical design                               |      | PNP             |
| Output function                                 |      | normally open   |
| Sensing range                                   | [mm] | 1               |
| Housing                                         |      | threaded type   |
| Dimensions                                      | [mm] | M8 x 1 / L = 35 |
| Electrical data                                 |      |                 |
| Operating voltage                               | [V]  | 10...36 DC      |
| Current consumption                             | [mA] | < 15            |
| Protection class                                |      | III             |
| Reverse polarity protection                     |      | yes             |
| Outputs                                         |      |                 |
| Electrical design                               |      | PNP             |
| Output function                                 |      | normally open   |
| Max. voltage drop switching output DC           | [V]  | 2.5             |
| Permanent current rating of switching output DC | [mA] | 200             |
| Switching frequency DC                          | [Hz] | 2000            |
| Short-circuit protection                        |      | yes             |
| Overload protection                             |      | yes             |
| Detection zone                                  |      |                 |
| Sensing range                                   | [mm] | 1               |
| Real sensing range Sr                           | [mm] | 1 ± 10 %        |



## Inductive sensor

IEB3001-BPKG

RT

|                    |      |          |
|--------------------|------|----------|
| Operating distance | [mm] | 0...0.81 |
|--------------------|------|----------|

## Accuracy / deviations

|                    |       |                                                                             |
|--------------------|-------|-----------------------------------------------------------------------------|
| Correction factor  |       | steel: 1 / stainless steel: 0.7 / brass: 0.5 / aluminium: 0.4 / copper: 0.3 |
| Hysteresis         | [X01] | 1...15                                                                      |
| Switch point drift | [X01] | -10...10                                                                    |

## Operating conditions

|                     |      |          |
|---------------------|------|----------|
| Ambient temperature | [°C] | -25...80 |
| Protection          |      | IP 65    |

## 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                  | class B           |
| MTTF | [ANN]                     | 2804              |

## Mechanical data

|                    |      |                                                                             |
|--------------------|------|-----------------------------------------------------------------------------|
| Weight             | [g]  | 51.2                                                                        |
| Housing            |      | threaded type                                                               |
| Mounting           |      | flush mountable                                                             |
| Dimensions         | [mm] | M8 x 1 / L = 35                                                             |
| Thread designation |      | M8 x 1                                                                      |
| Materials          |      | threaded sleeve: brass white bronze coated; sensing face: PBT; end cap: TPU |
| Tightening torque  | [Nm] | A = 5 mm: 1 Nm; B: 2 Nm                                                     |

## Displays / operating elements

|         |                  |              |
|---------|------------------|--------------|
| Display | switching status | 1 x LED, red |
|---------|------------------|--------------|

## Аксессуары

|                |  |              |
|----------------|--|--------------|
| Items supplied |  | lock nuts: 2 |
|----------------|--|--------------|

## Remarks

|               |  |        |
|---------------|--|--------|
| Remarks       |  |        |
| Pack quantity |  | 1 pcs. |

## Inductive sensor

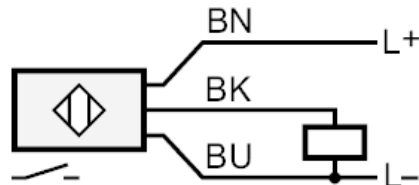
IEB3001-BPKG

RT

### Electrical connection

Cable: 2 m, PVC; 3 x 0.14 mm<sup>2</sup>

### Connection



Core colours :  
 BK = black  
 BN = brown  
 BU = blue

### Diagrams and graphs

#### Installation

