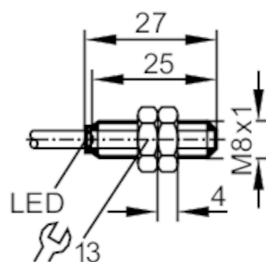


## Inductive sensor

IEB3002BBPKG/V4A/2M



## Product characteristics

|                    |                 |
|--------------------|-----------------|
| Electrical design  | PNP             |
| Output function    | normally open   |
| Sensing range [mm] | 2               |
| Housing            | threaded type   |
| Dimensions [mm]    | M8 x 1 / L = 27 |

## Electrical data

|                             |            |
|-----------------------------|------------|
| Operating voltage [V]       | 10...30 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] | 100           |
| Switching frequency DC [Hz]                          | 1500          |
| Short-circuit protection                             | yes           |
| Type of short-circuit protection                     | pulsed        |
| Overload protection                                  | yes           |

## Detection zone

|                            |               |
|----------------------------|---------------|
| Sensing range [mm]         | 2             |
| Real sensing range Sr [mm] | $2 \pm 10 \%$ |
| Operating distance [mm]    | 0...1.62      |

## Accuracy / deviations

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

# IE5368



## Inductive sensor

IEB3002BBPKG/V4A/2M

### Operating conditions

|                     |      |          |
|---------------------|------|----------|
| Ambient temperature | [°C] | -20...70 |
| Protection          |      | IP 67    |

### Tests / approvals

|             |                |             |
|-------------|----------------|-------------|
| EMC         | EN 60947-5-2   |             |
| MTTF        | [years]        | 3408        |
| UL approval | Ta             | -20...70 °C |
|             | Enclosure type | Type 1      |
|             | power supply   | Class 2     |
|             | File number UL | E174191     |

### Mechanical data

|                    |      |                                    |
|--------------------|------|------------------------------------|
| Weight             | [g]  | 46.2                               |
| Housing            |      | threaded type                      |
| Mounting           |      | flush mountable                    |
| Dimensions         | [mm] | M8 x 1 / L = 27                    |
| Thread designation |      | M8 x 1                             |
| Materials          |      | stainless steel; sensing face: LCP |

### Displays / operating elements

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

### Accessories

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

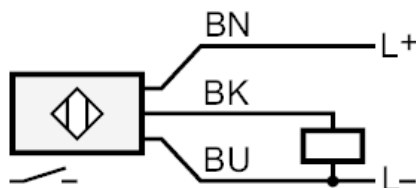
### Remarks

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

### Electrical connection

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

### Connection



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