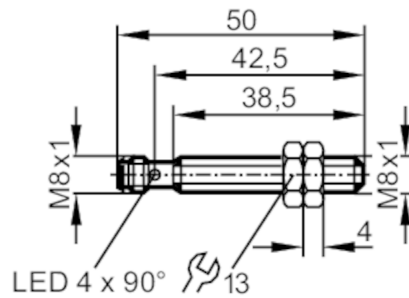


# IE5266



## Inductive sensor

IEB3001-BPKG/AS



### Product characteristics

|                   |      |                 |
|-------------------|------|-----------------|
| Electrical design |      | PNP             |
| Output function   |      | normally open   |
| Sensing range     | [mm] | 1               |
| Housing           |      | threaded type   |
| Dimensions        | [mm] | M8 x 1 / L = 50 |

### Electrical data

|                             |      |                       |
|-----------------------------|------|-----------------------|
| Operating voltage           | [V]  | 10...36 DC; (to PELV) |
| Current consumption         | [mA] | 15; (24 V)            |
| 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           |
| Type of short-circuit protection                |      | pulsed        |
| Overload protection                             |      | yes           |

### Detection zone

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

### Accuracy / deviations

|                    |           |   |
|--------------------|-----------|---|
| Correction factor  |           | steel: 1 / stainless steel: 0.7 / brass: 0.5 / aluminium: 0.4 / copper: 0.3 |
| Hysteresis         | [% of Sr] | 1...20  |
| Switch point drift | [% of Sr] | -10...10  |

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### Operating conditions

|                     |      |   |
|---------------------|------|---|
| Ambient temperature | [°C] | -25...80  |
| Protection          |      | IP 65; IP 67; (with ifm socket duly screwed on) |

### Tests / approvals

|             |                           |                                |
|-------------|---------------------------|--------------------------------|
| EMC         | EN 61000-4-2 ESD          | 4 kV CD / 8 kV AD              |
|             | EN 61000-4-3 HF radiated  | 10 V/m                         |
|             | EN 61000-4-4 Burst        | 2 kV                           |
|             | EN 61000-4-5 Surge        | 0,5 kV line to line, Ri: 2 Ohm |
|             | EN 61000-4-6 HF conducted | 10 V                           |
|             | EN 55011                  | class B                        |
|             | EN 60947-5-2              |                                |
| MTTF        | [years]                   | 2359                           |
| UL approval | Ta                        | -25...80 °C                    |
|             | Enclosure type            | Type 1                         |
|             | voltage supply            | Class 2                        |
|             | File number UL            | E174191                        |

### Mechanical data

|                    |      |  |
|--------------------|------|--|
| Weight             | [g]  | 18.6   |
| Housing            |      | threaded type  |
| Mounting           |      | flush mountable  |
| Dimensions         | [mm] | M8 x 1 / L = 50  |
| Thread designation |      | M8 x 1   |
| Materials          |      | threaded sleeve: brass special coating; sensing face: LCP orange; lock nuts: brass |
| Tightening torque  | [Nm] | A = 5 mm: 1,5 Nm; B: 2 Nm  |

### Displays / operating elements

|         |                  |                     |
|---------|------------------|---------------------|
| Display | switching status | 4 x 90° LED, yellow |
|---------|------------------|---------------------|

### Accessories

|                        |              |
|------------------------|--------------|
| Accessories (supplied) | lock nuts: 2 |
|------------------------|--------------|

### Remarks

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

### Electrical connection - plug

Connector: 1 x M8



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### Connection



### Diagrams and graphs

#### Installation

