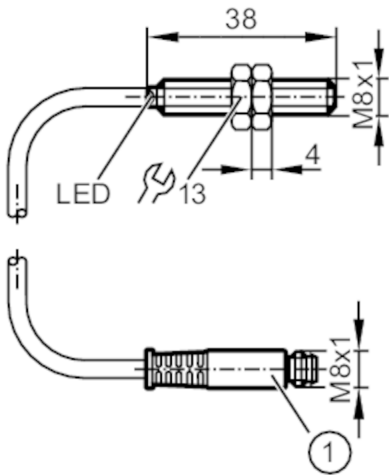


# IE5336



## Inductive sensor

IEB3002BBPKG/0,185M/PH/AS610



| Product characteristics                         |      |                                                                            |
|-------------------------------------------------|------|----------------------------------------------------------------------------|
| Electrical design                               |      | PNP                                                                        |
| Output function                                 |      | normally open                                                              |
| Sensing range                                   | [mm] | 2                                                                          |
| Housing                                         |      | Threaded type                                                              |
| Dimensions                                      | [mm] | M8 x 1 / L = 38                                                            |
| Electrical data                                 |      |                                                                            |
| Operating voltage                               | [V]  | 10...36 DC                                                                 |
| 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                                                                        |
| Short-time current rating of switching output   | [mA] | 200                                                                        |
| Switching frequency DC                          | [Hz] | 1000                                                                       |
| Short-circuit protection                        |      | yes                                                                        |
| Overload protection                             |      | yes                                                                        |
| Monitoring range                                |      |                                                                            |
| Sensing range                                   | [mm] | 2                                                                          |
| Real sensing range Sr                           | [mm] | 2 ± 10 %                                                                   |
| Operating distance                              | [mm] | 0...1.62                                                                   |
| Accuracy / deviations                           |      |                                                                            |
| Correction factor                               |      | steel: 1 / stainless steel: 0.7 / brass: 0.5 / aluminum: 0.4 / copper: 0.3 |

# IE5336



## Inductive sensor

IEB3002BBPKG/0,185M/PH/AS610

|                    |           |          |
|--------------------|-----------|----------|
| Hysteresis         | [% of Sr] | 1...15   |
| Switch-point drift | [% of Sr] | -10...10 |

### Operating conditions

|                     |                                                 |          |
|---------------------|-------------------------------------------------|----------|
| Ambient temperature | [°C]                                            | -25...70 |
| Protection          | IP 65; (with ifm socket duly screwed on: 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 61000-4-6 HF conducted | 3 V               |
|             | EN 55011                  | class B           |
| MTTF        | [years]                   | 2804              |
| UL approval | Ta                        | -25...70 °C       |
|             | Enclosure type            | Type 1            |
|             | voltage supply            | Class 2           |
|             | File number UL            | E174191           |

### Mechanical data

|                    |                                |                         |
|--------------------|--------------------------------|-------------------------|
| Weight             | [g]                            | 23.5                    |
| Housing            | Threaded type                  |                         |
| Mounting           | flush mountable                |                         |
| Dimensions         | [mm]                           | M8 x 1 / L = 38         |
| Thread designation | M8 x 1                         |                         |
| Material           | brass white bronze coated; LCP |                         |
| Tightening torque  | [Nm]                           | A = 5 mm: 1 Nm; B: 2 Nm |

### Displays / operating elements

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

### Accessories

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

### Remarks

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

### Electrical connection - plug

Cable: 0.185 m, PUR; 3 x 0.14 mm<sup>2</sup>

Connector: 1 x M8; coding: A; Locking: snap-fit



# IE5336



## Inductive sensor

IEB3002BBPKG/0,185M/PH/AS610

### Connection



### Diagrams and graphs

#### Installation

