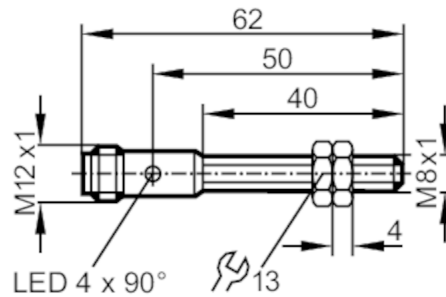


# IE5312



## Inductive sensor

IEK3002BBPKG/US-104-DPS



### Product characteristics

|                   |      |                 |
|-------------------|------|-----------------|
| Electrical design |      | PNP             |
| Output function   |      | normally open   |
| Sensing range     | [mm] | 2               |
| Housing           |      | Threaded type   |
| Dimensions        | [mm] | M8 x 1 / L = 62 |

### Electrical data

|                             |      |                       |
|-----------------------------|------|-----------------------|
| Operating voltage           | [V]  | 10...36 DC; (to PELV) |
| 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] | 250                |
| Switching frequency DC                          | [Hz] | 1000               |
| Short-circuit protection                        |      | yes                |
| Type of short-circuit protection                |      | yes (non-latching) |
| Overload protection                             |      | yes                |

### Monitoring range

|                    |      |         |
|--------------------|------|---------|
| Sensing range      | [mm] | 2       |
| Operating distance | [mm] | 0...1.6 |

### Accuracy / deviations

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

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## Inductive sensor

IEK3002BBPKG/US-104-DPS

### Operating conditions

|                     |      |          |
|---------------------|------|----------|
| Ambient temperature | [°C] | -25...70 |
| Protection          |      | IP 67    |

### Tests / approvals

|      |         |              |         |
|------|---------|--------------|---------|
| EMC  |         | EN 60947-5-2 |         |
|      |         | EN 55011     | class B |
| MTTF | [years] | 3491         |         |

### Mechanical data

|                    |      |  |
|--------------------|------|--|
| Weight             | [g]  | 23.1   |
| Housing            |      | Threaded type                                |
| Mounting           |      | flush mountable                              |
| Dimensions         | [mm] | M8 x 1 / L = 62                              |
| Thread designation |      | M8 x 1                                       |
| Material           |      | brass white bronze coated; sensing face: LCP |

### 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 M12



### Connection

