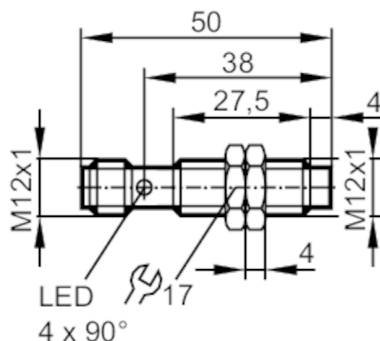


# IF6033



## Inductive sensor

IFB3004-BPKG/US/PULLDOWN 2KOHM



### Electrical data

|                               |      |           |
|-------------------------------|------|-----------|
| Operating voltage             | [V]  | 9...32 DC |
| Current consumption           | [mA] | < 15      |
| Protection class              |      | III       |
| Reverse polarity protection   |      | yes       |
| Internal pull-down resistance | [kΩ] | 2         |

### 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] | 125; (150 (...50 °C)) |
| Short-time current rating of switching output   | [mA] | 150                   |
| Switching frequency DC                          | [Hz] | 200                   |
| Short-circuit protection                        |      | yes                   |
| Type of short-circuit protection                |      | pulsed                |
| Overload protection                             |      | yes                   |

### Detection zone

|                       |      |          |
|-----------------------|------|----------|
| Sensing range         | [mm] | 4        |
| Real sensing range Sr | [mm] | 4 ± 10 % |
| Operating distance    | [mm] | 0...3.25 |

### 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                                                                    |

### Operating conditions

|                     |      |          |
|---------------------|------|----------|
| Ambient temperature | [°C] | -40...80 |
| Protection          |      | IP 67    |

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### 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 kV              |
|      | EN 55011 emission         |      | class B           |
| MTTF | [years]                   | 2965 |                   |

### Mechanical data

|                    |                                                                                                        |                  |
|--------------------|--------------------------------------------------------------------------------------------------------|------------------|
| Weight             | [g]                                                                                                    | 26.6             |
| Housing            | threaded type                                                                                          |                  |
| Mounting           | non-flush mountable                                                                                    |                  |
| Dimensions         | [mm]                                                                                                   | M12 x 1 / L = 50 |
| Thread designation | M12 x 1                                                                                                |                  |
| Materials          | threaded sleeve: brass white bronze coated; sensing face: PC; lock nuts: brass; potting: oil resistant |                  |

### Displays / operating elements

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

### Accessories

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

### Remarks

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

### Electrical connection - plug

Connector: 1 x M12; Contacts: gold-plated



### Connection

