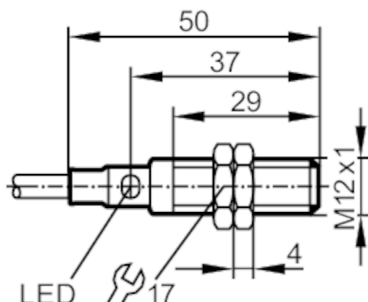


## Inductive sensor

IFB3004BBPKG/M/V4A/6M/WH



## Product characteristics

|                    |                  |
|--------------------|------------------|
| Electrical design  | PNP              |
| Output function    | normally open    |
| Sensing range [mm] | 4                |
| Housing            | threaded type    |
| Dimensions [mm]    | M12 x 1 / L = 50 |

## Application

|                 |                                                    |
|-----------------|----------------------------------------------------|
| Special feature | Increased sensing range                            |
| Application     | Use in hygienic areas / regular cleaning processes |

## Electrical data

|                             |            |
|-----------------------------|------------|
| Operating voltage [V]       | 10...36 DC |
| Current consumption [mA]    | 10; (24 V) |
| Protection class            | II         |
| 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]                          | 800           |
| Short-circuit protection                             | yes           |
| Type of short-circuit protection                     | pulsed        |
| Overload protection                                  | yes           |

## Detection zone

|                         |          |
|-------------------------|----------|
| Sensing range [mm]      | 4        |
| Operating distance [mm] | 0...3.25 |
| Increased sensing range | yes      |

## Accuracy / deviations

|                   |                                                                             |
|-------------------|-----------------------------------------------------------------------------|
| Correction factor | steel: 1 / stainless steel: 0.7 / brass: 0.5 / aluminium: 0.4 / copper: 0.3 |
|-------------------|-----------------------------------------------------------------------------|



Inductive sensor

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|            |           |        |
|------------|-----------|--------|
| Hysteresis | [% of Sr] | 1...20 |
|------------|-----------|--------|

Operating conditions

|                     |      |                        |
|---------------------|------|------------------------|
| Ambient temperature | [°C] | 0...100                |
| Protection          |      | IP 68; IP 69K; ("COP") |

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                        |
| MTTF        | [years]                   | 1669                           |
| UL approval | Ta                        | 0...40 °C                      |
|             | Enclosure type            | Type 1                         |
|             | power supply              | Limited Voltage/Current        |
|             | File number UL            | E174191                        |

Mechanical data

|                    |      |                                                   |
|--------------------|------|---------------------------------------------------|
| Weight             | [g]  | 250.5                                             |
| Housing            |      | threaded type                                     |
| Mounting           |      | flush mountable                                   |
| Dimensions         | [mm] | M12 x 1 / L = 50                                  |
| Thread designation |      | M12 x 1                                           |
| Materials          |      | stainless steel (316L/1.4404); sensing face: PEEK |

Displays / operating elements

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

Accessories

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

Remarks

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

Electrical connection

Cable: 6 m, PVC, Ø 4.9 mm; 3 x 0.34 mm²

Connection

