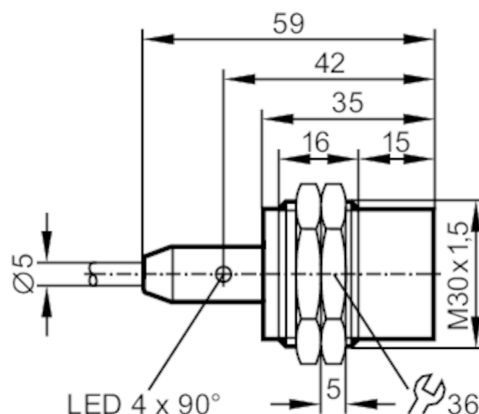




## Inductive sensor

IIB3022-BPKG/M/V4A/10M/WH



## Product characteristics

|                    |                    |
|--------------------|--------------------|
| Electrical design  | PNP                |
| Output function    | normally open      |
| Sensing range [mm] | 22                 |
| Housing            | threaded type      |
| Dimensions [mm]    | M30 x 1.5 / L = 59 |

## Application

|                 |                            |
|-----------------|----------------------------|
| Special feature | Increased sensing range    |
| Application     | 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]                          | 100           |
| Short-circuit protection                             | yes           |
| Type of short-circuit protection                     | pulsed        |
| Overload protection                                  | yes           |

## Detection zone

|                               |                |
|-------------------------------|----------------|
| Sensing range [mm]            | 22             |
| Real sensing range $S_r$ [mm] | $22 \pm 10 \%$ |
| Operating distance [mm]       | 0...17.82      |



## Inductive sensor

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|                                      |                           |                                                                             |
|--------------------------------------|---------------------------|-----------------------------------------------------------------------------|
| Increased sensing range              |                           | yes                                                                         |
| <b>Accuracy / deviations</b>         |                           |                                                                             |
| Correction factor                    |                           | steel: 1 / stainless steel: 0.7 / brass: 0.5 / aluminium: 0.4 / copper: 0.3 |
| Hysteresis                           | [X01]                     | 3...15                                                                      |
| Switch point drift                   | [X01]                     | -10...10                                                                    |
| <b>Operating conditions</b>          |                           |                                                                             |
| Ambient temperature                  | [°C]                      | 0...100                                                                     |
| Protection                           |                           | IP 68; IP 69K                                                               |
| <b>Tests / approvals</b>             |                           |                                                                             |
| 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 61000-4-6 HF conducted | 10 V                                                                        |
|                                      | EN 55011                  | class B                                                                     |
| MTTF                                 | [ANN]                     | 1594                                                                        |
| UL approval                          | Ta                        | 0...40 °C                                                                   |
|                                      | Enclosure type            | Type 1                                                                      |
|                                      | подача напруги            | Limited Voltage/Current                                                     |
|                                      | File number UL            | E174191                                                                     |
| <b>Mechanical data</b>               |                           |                                                                             |
| Weight                               | [g]                       | 428.2                                                                       |
| Housing                              |                           | threaded type                                                               |
| Mounting                             |                           | non-flush mountable                                                         |
| Dimensions                           | [mm]                      | M30 x 1.5 / L = 59                                                          |
| Thread designation                   |                           | M30 x 1.5                                                                   |
| Materials                            |                           | stainless steel (1.4404 / 316L); sensing face: PEEK                         |
| <b>Displays / operating elements</b> |                           |                                                                             |
| Display                              | switching status          | 4 x 90° LED, yellow                                                         |
| <b>Аксессуары</b>                    |                           |                                                                             |
| Items supplied                       |                           | lock nuts: 2                                                                |
| <b>Remarks</b>                       |                           |                                                                             |
| Pack quantity                        |                           | 1 pcs.                                                                      |



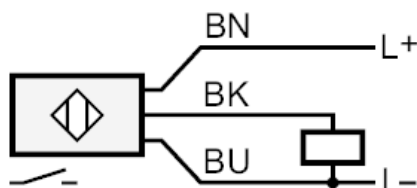
## Inductive sensor

IIB3022-BPKG/M/V4A/10M/WH

### Electrical connection

Cable: 10 m, PVC; 3 x 0.34 mm<sup>2</sup>

### Connection



Core colours :  
 BK = black  
 BN = brown  
 BU = blue