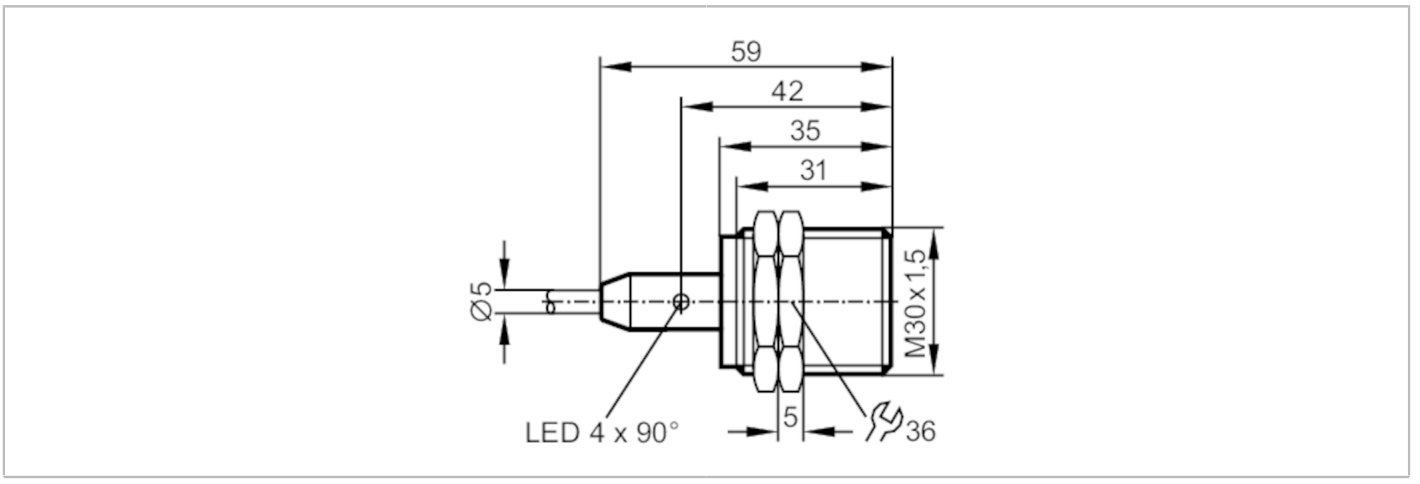
# IIT209

## Inductive sensor

IIB3014BBPKG/M/V4A/6M/WH




EC 1935/2004

| | | |
|---|---|---|
| **Product characteristics** | | |
| Electrical design | | PNP |
| Output function | | normally open |
| Sensing range | [mm] | 14 |
| Housing | | Threaded type |
| Dimensions | [mm] | M30 x 1.5 / L = 59 |
| **Application** | | |
| System | | 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 | | yes (non-latching) |
| Overload protection | | yes |
| **Monitoring range** | | |
| Sensing range | [mm] | 14 |
| Real sensing range Sr | [mm] | 14 ± 10 % |
| Operating distance | [mm] | 0...11.34 |

# IIT209

## Inductive sensor

**IIB3014BBPKG/M/V4A/6M/WH**

| | | | |
|---|---|---|---|
| Increased sensing range | | yes | |
| **Accuracy / deviations** | | | |
| Correction factor | | steel: 1 / stainless steel: 0.7 / brass: 0.5 / aluminum: 0.4 / copper: 0.3 | |
| Hysteresis | [% of Sr] | 3...15 | |
| Switch-point drift | [% of Sr] | -10...10 | |
| **Operating conditions** | | | |
| Ambient temperature | [°C] | 0...100 | |
| Protection | | IP 68; IP 69K | |
| **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 61000-4-6 HF conducted | 10 V |
| | | EN 55011 | class B |
| MTTF | [years] | 1590 | |
| UL approval | | Ta | 0...40 °C |
| | | Enclosure type | Type 1 |
| | | voltage supply | Limited Voltage/Current |
| | | File number UL | E174191 |
| **Mechanical data** | | | |
| Weight | [g] | 341 | |
| Housing | | Threaded type | |
| Mounting | | flush mountable | |
| Dimensions | [mm] | M30 x 1.5 / L = 59 | |
| Thread designation | | M30 x 1.5 | |
| Material | | stainless steel (1.4404 / 316L); sensing face: PEEK | |
| **Displays / operating elements** | | | |
| Display | | Switching status | 4 x 90° LED, yellow |
| **Accessories** | | | |
| Items supplied | | lock nuts: 2 | |
| **Remarks** | | | |
| Pack quantity | | 1 pcs. | |

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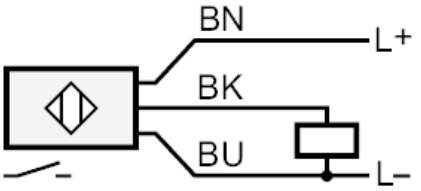
## Inductive sensor

**IIB3014BBPKG/M/V4A/6M/WH**

## Electrical connection

Cable: 6 m, PVC; 3 x 0.34 mm²

### Connection




| | |
|---|---|
| | Core colors : |
| BK = | black |
| BN = | brown |
| BU = | blue |