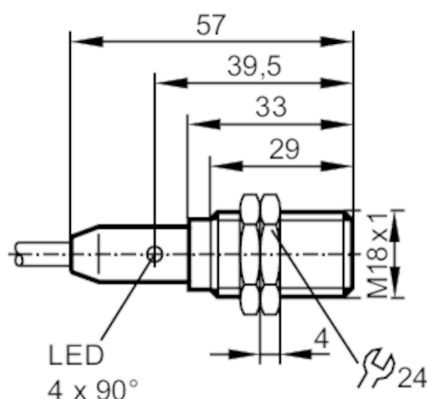




## Inductive sensor

IGB3005-BPKG/M/V4A/10M

Article no longer available - archive entry



### Product characteristics

|                    |                  |
|--------------------|------------------|
| Electrical design  | PNP              |
| Output function    | normally open    |
| Sensing range [mm] | 5                |
| Housing            | Threaded type    |
| Dimensions [mm]    | M18 x 1 / L = 57 |

### Application

|             |                       |
|-------------|-----------------------|
| Application | Washdown applications |
|-------------|-----------------------|

### Electrical data

|                             |            |
|-----------------------------|------------|
| Operating voltage [V]       | 10...36 DC |
| Current consumption [mA]    | < 10       |
| 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]                          | 500                |
| Short-circuit protection                             | yes                |
| Type of short-circuit protection                     | yes (non-latching) |
| Overload protection                                  | yes                |

### Monitoring range

|                            |          |
|----------------------------|----------|
| Sensing range [mm]         | 5        |
| Real sensing range Sr [mm] | 5 ± 10 % |
| Operating distance [mm]    | 0...4.05 |

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## Inductive sensor

IGB3005-BPKG/M/V4A/10M

| Accuracy / deviations         |                                                                                                     |                                |
|-------------------------------|-----------------------------------------------------------------------------------------------------|--------------------------------|
| Correction factor             | steel: 1 / stainless steel: 0.7 / brass: 0.4 / aluminum: 0.4 / copper: 0.3                          |                                |
| Hysteresis                    | [% of Sr]                                                                                           | 1...20                         |
| 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 61000-4-5 Surge                                                                                  | 0,5 kV line to line, Ri: 2 Ohm |
|                               | EN 61000-4-6 HF conducted                                                                           | 10 V                           |
|                               | EN 55011                                                                                            | class B                        |
| Mechanical data               |                                                                                                     |                                |
| Weight                        | [g]                                                                                                 | 0.4                            |
| Housing                       | Threaded type                                                                                       |                                |
| Mounting                      | flush mountable                                                                                     |                                |
| Dimensions                    | [mm]                                                                                                | M18 x 1 / L = 57               |
| Thread designation            | M18 x 1                                                                                             |                                |
| Material                      | threaded sleeve: stainless steel (1.4404 / 316L);<br>sensing face: PEEK; lock nuts: stainless steel |                                |
| 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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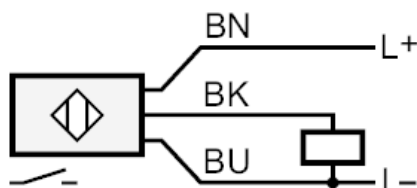
## Inductive sensor

IGB3005-BPKG/M/V4A/10M

### Electrical connection

Cable: 10 m, PVC, Ø 4.9 mm; 3 x 0.34 mm<sup>2</sup>

### Connection



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