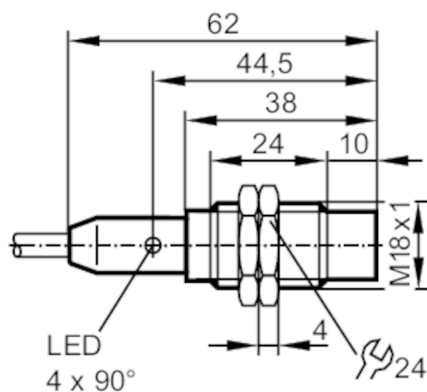




## Inductive sensor

IGB3012-BPKG/M/V4A/25M/WH



### 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] | 300           |
| Short-circuit protection                        |      | yes           |
| Overload protection                             |      | yes           |

### Detection zone

|                         |      |           |
|-------------------------|------|-----------|
| Sensing range           | [mm] | 12        |
| Real sensing range Sr   | [mm] | 12 ± 10 % |
| Operating distance      | [mm] | 0...9.72  |
| Increased sensing range |      | yes       |

### 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] | 0...100                |
| Protection          |      | IP 68; IP 69K; ("COP") |

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| 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]                   | 1925                                                |
| UL approval                   | Ta                        | 0...40 °C                                           |
|                               | Enclosure type            | Type 1                                              |
|                               | voltage supply            | Limited Voltage/Current                             |
|                               | File number UL            | E174191                                             |
| Mechanical data               |                           |                                                     |
| Weight                        | [g]                       | 874.2                                               |
| Housing                       |                           | threaded type                                       |
| Mounting                      |                           | non-flush mountable                                 |
| Dimensions                    | [mm]                      | M18 x 1 / L = 62                                    |
| Thread designation            |                           | M18 x 1                                             |
| Materials                     |                           | stainless steel (1.4404 / 316L); sensing face: PEEK |
| Displays / operating elements |                           |                                                     |
| Display                       | switching status          | 4 x 90° LED, yellow                                 |
| Accessories                   |                           |                                                     |
| Accessories (supplied)        |                           | lock nuts: 2                                        |
| Remarks                       |                           |                                                     |
| Pack quantity                 |                           | 1 pcs.                                              |

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### Electrical connection

Cable: 25 m, PVC, Ø 4.9 mm; 3 x 0.34 mm<sup>2</sup>

### Connection



Core colours :

|      |       |
|------|-------|
| BK = | black |
| BN = | brown |
| BU = | blue  |