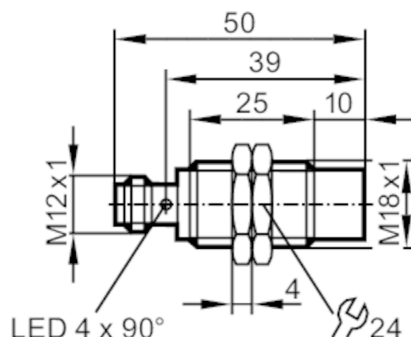




## Inductive sensor

IGB3008-BPKG/US-104



### Electrical data

|                             |      |            |
|-----------------------------|------|------------|
| Operating voltage           | [V]  | 10...30 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] | 200           |
| Short-circuit protection                        |      | yes           |
| Overload protection                             |      | yes           |

### Detection zone

|                          |      |              |
|--------------------------|------|--------------|
| Sensing range            | [mm] | 8            |
| Real sensing range $S_r$ | [mm] | $8 \pm 10\%$ |
| Operating distance       | [mm] | 0...6.48     |

### Accuracy / deviations

|                    |               |                                                                             |
|--------------------|---------------|-----------------------------------------------------------------------------|
| Correction factor  |               | steel: 1 / stainless steel: 0.7 / brass: 0.5 / aluminium: 0.4 / copper: 0.3 |
| Hysteresis         | [% of $S_r$ ] | 3...15                                                                      |
| Switch point drift | [% of $S_r$ ] | -10...10                                                                    |

### Operating conditions

|                     |      |          |
|---------------------|------|----------|
| Ambient temperature | [°C] | -25...80 |
| Protection          |      | IP 67    |

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| Tests / approvals                                                                   |                  |                                                                                                               |
|-------------------------------------------------------------------------------------|------------------|---------------------------------------------------------------------------------------------------------------|
| EMC                                                                                 | EN 60947-5-2     |                                                                                                               |
|                                                                                     | EN 55011         | class B                                                                                                       |
| MTTF                                                                                | [years]          | 1528                                                                                                          |
| UL approval                                                                         | Ta               | 0...40 °C                                                                                                     |
|                                                                                     | Enclosure type   | Type 1                                                                                                        |
|                                                                                     | voltage supply   | Unlimited Voltage                                                                                             |
|                                                                                     | File number UL   | E174191                                                                                                       |
| Mechanical data                                                                     |                  |                                                                                                               |
| Weight                                                                              | [g]              | 50                                                                                                            |
| Housing                                                                             |                  | threaded type                                                                                                 |
| Mounting                                                                            |                  | non-flush mountable                                                                                           |
| Dimensions                                                                          | [mm]             | M18 x 1 / L = 50                                                                                              |
| Thread designation                                                                  |                  | M18 x 1                                                                                                       |
| Materials                                                                           |                  | brass white bronze coated; sensing face: PBT orange;<br>LED window: PEI; lock nuts: brass white bronze coated |
| Displays / operating elements                                                       |                  |                                                                                                               |
| Display                                                                             | switching status | 4 x LED, yellow                                                                                               |
| Accessories                                                                         |                  |                                                                                                               |
| Accessories (supplied)                                                              |                  | lock nuts: 2                                                                                                  |
| Remarks                                                                             |                  |                                                                                                               |
| Pack quantity                                                                       |                  | 1 pcs.                                                                                                        |
| Electrical connection - plug                                                        |                  |                                                                                                               |
| Connector: 1 x M12; Contacts: gold-plated                                           |                  |                                                                                                               |
|  |                  |                                                                                                               |

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### Connection

