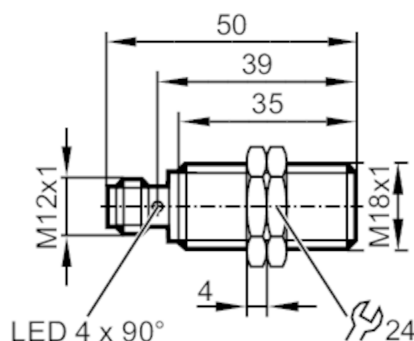


## Inductive sensor

IGB3005-BPKG/US-104



### Product characteristics

|                    |                  |
|--------------------|------------------|
| Electrical design  | PNP              |
| Output function    | normally open    |
| Sensing range [mm] | 5                |
| Housing            | Threaded type    |
| Dimensions [mm]    | M18 x 1 / L = 50 |

### Application

|        |                      |
|--------|----------------------|
| System | gold-plated contacts |
|--------|----------------------|

### 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]                          | 500           |
| Short-circuit protection                             | yes           |
| Overload protection                                  | yes           |

### Monitoring range

|                               |               |
|-------------------------------|---------------|
| Sensing range [mm]            | 5             |
| Real sensing range $S_r$ [mm] | $5 \pm 10 \%$ |
| Operating distance [mm]       | 0...4.05      |

### Accuracy / deviations

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

# IG5793



## Inductive sensor

IGB3005-BPKG/US-104

| Operating conditions                      |                  |                                                                                                               |
|-------------------------------------------|------------------|---------------------------------------------------------------------------------------------------------------|
| Ambient temperature                       | [°C]             | -25...80                                                                                                      |
| Protection                                |                  | IP 67                                                                                                         |
| Tests / approvals                         |                  |                                                                                                               |
| EMC                                       | EN 60947-5-2     |                                                                                                               |
|                                           | EN 55011         | class B                                                                                                       |
| MTTF                                      | [years]          | 1673                                                                                                          |
| UL approval                               | Ta               | 0...40 °C                                                                                                     |
|                                           | Enclosure type   | Type 1                                                                                                        |
|                                           | voltage supply   | Hazardous voltage                                                                                             |
|                                           | File number UL   | E174191                                                                                                       |
| Mechanical data                           |                  |                                                                                                               |
| Weight                                    | [g]              | 44.3                                                                                                          |
| Housing                                   |                  | Threaded type                                                                                                 |
| Mounting                                  |                  | flush mountable                                                                                               |
| Dimensions                                | [mm]             | M18 x 1 / L = 50                                                                                              |
| Thread designation                        |                  | M18 x 1                                                                                                       |
| Material                                  |                  | 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, red                                                                                                  |
| Accessories                               |                  |                                                                                                               |
| Items supplied                            |                  | lock nuts: 2                                                                                                  |
| Remarks                                   |                  |                                                                                                               |
| Pack quantity                             |                  | 1 pcs.                                                                                                        |
| Electrical connection - plug              |                  |                                                                                                               |
| Connector: 1 x M12; Contacts: gold-plated |                  |                                                                                                               |
|                                           |                  |                                                                                                               |



# IG5793

## Inductive sensor

IGB3005-BPKG/US-104



### Connection

