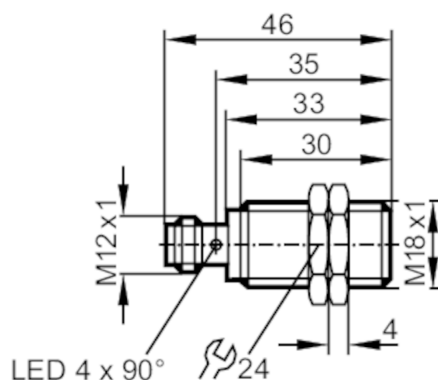


## Inductive sensor

IGB3008BBPKG/M/US-104-DPS



### Product characteristics

|                    |                  |
|--------------------|------------------|
| Electrical design  | PNP              |
| Output function    | normally open    |
| Sensing range [mm] | 8                |
| Housing            | threaded type    |
| Dimensions [mm]    | M18 x 1 / L = 46 |

### Application

|                 |                                               |
|-----------------|-----------------------------------------------|
| Special feature | Gold-plated contacts; Increased sensing range |
| Application     | Use in machine tools, coolants and lubricants |

### 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]                          | 400           |
| Short-circuit protection                             | yes           |
| Type of short-circuit protection                     | pulsed        |
| Overload protection                                  | yes           |

### Detection zone

|                               |               |
|-------------------------------|---------------|
| Sensing range [mm]            | 8             |
| Real sensing range $S_r$ [mm] | $8 \pm 10 \%$ |
| Operating distance [mm]       | 0...6.5       |



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|                         |     |
|-------------------------|-----|
| 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]         | 3...15                                                                      |  |
| Switch point drift [% of Sr] | -10...10                                                                    |  |

## Operating conditions

|                          |                    |
|--------------------------|--------------------|
| Ambient temperature [°C] | -25...70           |
| Protection               | IP 68; ("Coolant") |

## 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] | 2784                      |                   |
| UL approval  | Ta                        | 0...40 °C         |
|              | Enclosure type            | Type 1            |
|              | power supply              | Hazardous voltage |
|              | File number UL            | E174191           |

## Mechanical data

|                    |                                                            |
|--------------------|------------------------------------------------------------|
| Weight [g]         | 55.3                                                       |
| Housing            | threaded type                                              |
| Mounting           | flush mountable                                            |
| Dimensions [mm]    | M18 x 1 / L = 46                                           |
| Thread designation | M18 x 1                                                    |
| Materials          | housing: brass white bronze coated; sensing face: ceramics |

## Displays / operating elements

|         |                  |                     |
|---------|------------------|---------------------|
| Display | switching status | 4 x 90° LED, yellow |
|---------|------------------|---------------------|

## Accessories

|                |              |
|----------------|--------------|
| Items supplied | lock nuts: 2 |
|----------------|--------------|

## Remarks

|               |        |
|---------------|--------|
| Pack quantity | 1 pcs. |
|---------------|--------|

## Electrical connection - plug

Connector: 1 x M12; coding: A; Contacts: gold-plated





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### Connection

