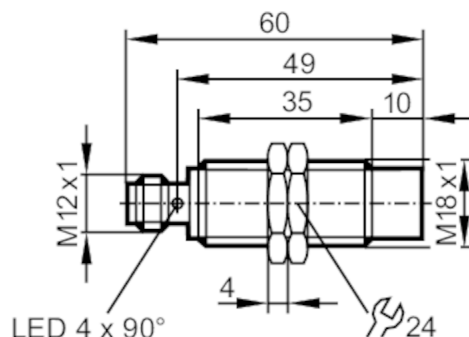


# IG5941



## Inductive sensor

IGK3008-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] | 200           |
| Switching frequency DC                          | [Hz] | 300           |
| 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...70 |
| Protection          |      | IP 67    |

### Tests / approvals

|      |              |         |
|------|--------------|---------|
| EMC  | EN 60947-5-2 |         |
|      | EN 55011     | class B |
| MTTF | [years]      | 1853    |

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IGK3008-BPKG/US-104

### Mechanical data

|                    |      |                                                                                                               |
|--------------------|------|---------------------------------------------------------------------------------------------------------------|
| Weight             | [g]  | 48.8                                                                                                          |
| Housing            |      | threaded type                                                                                                 |
| Mounting           |      | non-flush mountable                                                                                           |
| Dimensions         | [mm] | M18 x 1 / L = 60                                                                                              |
| 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



### Connection

