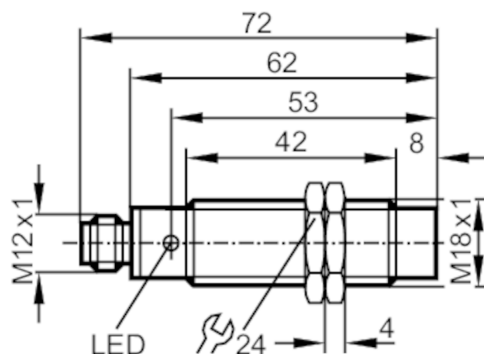


# IG5841



## Inductive sensor

IGK3012-BPKG/US-100-DPS



### Electrical data

|                             |      |            |
|-----------------------------|------|------------|
| Operating voltage           | [V]  | 10...36 DC |
| Current consumption         | [mA] | 15; (24 V) |
| 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] | 250           |
| Switching frequency DC                          | [Hz] | 300           |
| Short-circuit protection                        |      | yes           |
| Type of short-circuit protection                |      | pulsed        |
| Overload protection                             |      | yes           |

### Detection zone

|                         |      |           |
|-------------------------|------|-----------|
| Sensing range           | [mm] | 12        |
| Real sensing range Sr   | [mm] | 12 ± 10 % |
| Operating distance      | [mm] | 0...9.7   |
| Increased sensing range |      | yes       |

### Accuracy / deviations

|                    |           |                                                                             |
|--------------------|-----------|-----------------------------------------------------------------------------|
| Correction factor  |           | steel: 1 / stainless steel: 0.7 / brass: 0.4 / aluminium: 0.3 / copper: 0.2 |
| Hysteresis         | [% of Sr] | 3...15                                                                      |
| Switch point drift | [% of Sr] | -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]          | 1853                                                    |
| UL approval                   | Ta               | 0...40 °C                                               |
|                               | Enclosure type   | Type 1                                                  |
|                               | voltage supply   | Unlimited Voltage                                       |
|                               | UL Approval no.  | A003                                                    |
|                               | File number UL   | E174191                                                 |
| Mechanical data               |                  |                                                         |
| Weight                        | [g]              | 61.4                                                    |
| Housing                       |                  | threaded type                                           |
| Mounting                      |                  | non-flush mountable                                     |
| Dimensions                    | [mm]             | M18 x 1 / L = 72                                        |
| Thread designation            |                  | M18 x 1                                                 |
| Materials                     |                  | brass white bronze coated; sensing face: PBT uncoloured |
| Displays / operating elements |                  |                                                         |
| Display                       | switching status | 1 x LED, yellow                                         |
| Accessories                   |                  |                                                         |
| Accessories (supplied)        |                  | lock nuts: 2                                            |
| Remarks                       |                  |                                                         |
| Pack quantity                 |                  | 1 pcs.                                                  |
| Electrical connection - plug  |                  |                                                         |
| Connector: 1 x M12            |                  |                                                         |
|                               |                  |                                                         |

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### Connection

