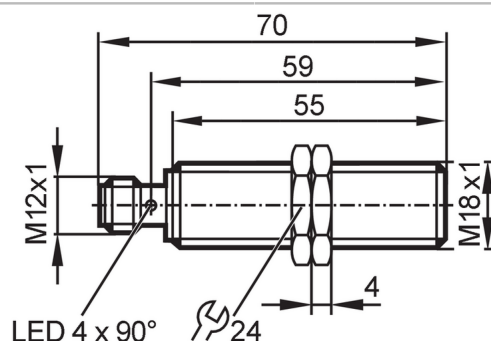




## Inductive sensor

IGK3005-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 = 70 |

### Application

|                 |                      |
|-----------------|----------------------|
| Special feature | Gold-plated contacts |
|-----------------|----------------------|

### Electrical data

|                             |              |
|-----------------------------|--------------|
| Operating voltage [V]       | 10...30 DC   |
| Current consumption [mA]    | < 10; (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] | 200           |
| Switching frequency DC [Hz]                          | 500           |
| Short-circuit protection                             | yes           |
| Overload protection                                  | yes           |

### Detection zone

|                               |               |
|-------------------------------|---------------|
| 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 / aluminium: 0.4 / copper: 0.3 |
| Hysteresis [% of $S_r$ ]         | 3...15                                                                      |
| Switch point drift [% of $S_r$ ] | -10...10                                                                    |



## Inductive sensor

IGK3005-BPKG/US-104

| Operating conditions                                                                |                  |                                                                                                                        |
|-------------------------------------------------------------------------------------|------------------|------------------------------------------------------------------------------------------------------------------------|
| Ambient temperature                                                                 | [°C]             | -25...80                                                                                                               |
| Protection                                                                          |                  | IP 67                                                                                                                  |
| Tests / approvals                                                                   |                  |                                                                                                                        |
| EMC                                                                                 | EN 55011         | class B                                                                                                                |
| MTTF                                                                                | [years]          | 1083                                                                                                                   |
| Embedded software included                                                          |                  | no                                                                                                                     |
| Mechanical data                                                                     |                  |                                                                                                                        |
| Weight                                                                              | [g]              | 51.7                                                                                                                   |
| Housing                                                                             |                  | threaded type                                                                                                          |
| Mounting                                                                            |                  | flush mountable                                                                                                        |
| Dimensions                                                                          | [mm]             | M18 x 1 / L = 70                                                                                                       |
| Thread designation                                                                  |                  | M18 x 1                                                                                                                |
| Materials                                                                           |                  | housing: 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                                                                         |                  |                                                                                                                        |
| Items supplied                                                                      |                  | lock nuts: 2                                                                                                           |
| Remarks                                                                             |                  |                                                                                                                        |
| Pack quantity                                                                       |                  | 1 pcs.                                                                                                                 |
| Electrical connection - plug                                                        |                  |                                                                                                                        |
| Connector: 1 x M12; coding: A; Contacts: 3, gold-plated                             |                  |                                                                                                                        |
|  |                  |                                                                                                                        |
| Connection                                                                          |                  |                                                                                                                        |

