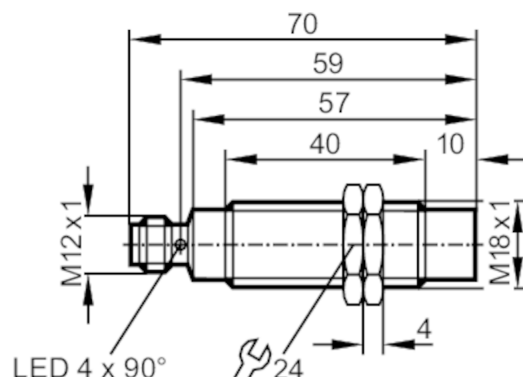




## Inductive sensor

IGKC012-BSKG/US-104-DRO

Article no longer available - archive entry



### Product characteristics

|                    |                  |
|--------------------|------------------|
| Electrical design  | PNP/NPN          |
| Output function    | normally closed  |
| Sensing range [mm] | 12               |
| Housing            | Threaded type    |
| Dimensions [mm]    | M18 x 1 / L = 70 |

### Application

|        |                                               |
|--------|-----------------------------------------------|
| System | gold-plated contacts; Increased sensing range |
|--------|-----------------------------------------------|

### Electrical data

|                             |                                  |
|-----------------------------|----------------------------------|
| Operating voltage [V]       | 10...36 DC                       |
| Current consumption [mA]    | < 10; (only in 3-wire operation) |
| Protection class            | II                               |
| Reverse polarity protection | yes                              |

### Outputs

|                                                      |                                 |
|------------------------------------------------------|---------------------------------|
| Electrical design                                    | PNP/NPN                         |
| Output function                                      | normally closed                 |
| Max. voltage drop switching output DC [V]            | 2.5                             |
| Minimum load current [mA]                            | 2; (only in 2-wire operation)   |
| Max. leakage current [mA]                            | 0.5; (only in 2-wire operation) |
| Permanent current rating of switching output DC [mA] | 100                             |
| Switching frequency DC [Hz]                          | 200                             |
| Short-circuit protection                             | yes                             |
| Type of short-circuit protection                     | yes (non-latching)              |
| Overload protection                                  | yes                             |

### Monitoring range

|                    |    |
|--------------------|----|
| Sensing range [mm] | 12 |
|--------------------|----|



## Inductive sensor

IGKC012-BSKG/US-104-DRO

|                         |      |           |
|-------------------------|------|-----------|
| Real sensing range Sr   | [mm] | 12 ± 10 % |
| Operating distance      | [mm] | 0...9.72  |
| Increased sensing range |      | yes       |

### Accuracy / deviations

|                    |           |                                                                              |
|--------------------|-----------|------------------------------------------------------------------------------|
| Correction factor  |           | steel: 1 / stainless steel: 0.7 / brass: 0.5 / aluminum: 0.45 / copper: 0.35 |
| Hysteresis         | [% of Sr] | 1...20                                                                       |
| Switch-point drift | [% of Sr] | -10...10                                                                     |

### Operating conditions

|                     |      |               |
|---------------------|------|---------------|
| Ambient temperature | [°C] | -40...85      |
| Protection          |      | IP 67; IP 69K |

### Tests / approvals

|                             |                           |                                                                                                |
|-----------------------------|---------------------------|------------------------------------------------------------------------------------------------|
| EMC                         | EN 61000-4-2 ESD          | 4 kV CD / 8 kV AD                                                                              |
|                             | EN 61000-4-3 HF radiated  | 30 V/m                                                                                         |
|                             | EN 61000-4-4 Burst        | 2 V                                                                                            |
|                             | EN 61000-4-5 Surge        | 0,5 kV supply / line to line, Ri: 2 Ohm                                                        |
|                             | EN 61000-4-6 HF conducted | 10 V                                                                                           |
|                             | EN 55011                  | class B                                                                                        |
| Vibration resistance        | EN 60068-2-6 Fc           | 20 g (10...3000 Hz) / -20...50 °C                                                              |
|                             |                           | 50 sweep cycles per frequency; 1 octave per minute in 3 axes                                   |
| Shock resistance            | EN 60068-2-27 Ea          | 100 g 11 ms half-sine; 3 shocks each in every direction of the 3 coordinate axes / -40...85 °C |
| Continuous shock resistance | EN 60068-2-30 Eb          | 40 g 6 ms; 4000 shocks each in every direction of the 3 coordinate axes / -20...50 °C          |
| Salt spray test             | EN 60068-2-52 Kb          | severity level 5 (4 test cycles)                                                               |
| UL approval                 | Ta                        | -40...85 °C                                                                                    |
|                             | Enclosure type            | Type 1                                                                                         |
|                             | voltage supply            | Limited Voltage/Current                                                                        |
|                             | File number UL            | E174191                                                                                        |

### Mechanical data

|                    |      |                                                                           |
|--------------------|------|---------------------------------------------------------------------------|
| Weight             | [g]  | 55.6                                                                      |
| Housing            |      | Threaded type                                                             |
| Mounting           |      | non-flush mountable                                                       |
| Dimensions         | [mm] | M18 x 1 / L = 70                                                          |
| Thread designation |      | M18 x 1                                                                   |
| Material           |      | housing: stainless steel; sensing face: PBT; O-ring: FKM; LED window: PEI |

### Displays / operating elements

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

### Accessories

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

### Remarks

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

# IG6568



## Inductive sensor

IGKC012-BSKG/US-104-DRO

### Electrical connection - plug

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

