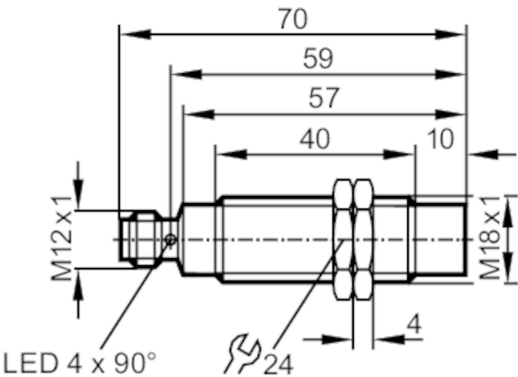




Inductive sensor

IGKC012-ASKG/US-104-DRS



| Product characteristics                         |      |                                               |
|-------------------------------------------------|------|-----------------------------------------------|
| Electrical design                               |      | PNP/NPN                                       |
| Output function                                 |      | normally open                                 |
| Sensing range                                   | [mm] | 12                                            |
| Housing                                         |      | threaded type                                 |
| Dimensions                                      | [mm] | M18 x 1 / L = 70                              |
| Application                                     |      |                                               |
| Special feature                                 |      | 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 open                                 |
| 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                |      | pulsed                                        |
| Overload protection                             |      | yes                                           |
| Detection zone                                  |      |                                               |
| Sensing range                                   | [mm] | 12                                            |
| Real sensing range Sr                           | [mm] | 12 ± 10 %                                     |

# IG6566



## Inductive sensor

IGKC012-ASKG/US-104-DRS

|                         |      |          |
|-------------------------|------|----------|
| Operating distance      | [mm] | 0...9.72 |
| Increased sensing range |      | yes      |

| Accuracy / deviations |           |                                                                               |
|-----------------------|-----------|-------------------------------------------------------------------------------|
| Correction factor     |           | steel: 1 / stainless steel: 0.7 / brass: 0.5 / aluminium: 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 kV                                                                                           |
|                             | 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                                                                                        |
|                             | EN 60068-2-6 Fc           | 20 g (10...3000 Hz) / -20...50 °C                                                              |
| Vibration resistance        |                           | 50 sweep cycles, 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)                                                               |
| MTTF                        | [years]                   | 1195                                                                                           |
| UL approval                 | Ta                        | -40...85 °C                                                                                    |
|                             | Enclosure type            | Type 1                                                                                         |
|                             | power supply              | Limited Voltage/Current                                                                        |
|                             | File number UL            | E174191                                                                                        |

| Mechanical data    |      |                                                                                   |
|--------------------|------|-----------------------------------------------------------------------------------|
| Weight             | [g]  | 54.6                                                                              |
| Housing            |      | threaded type                                                                     |
| Mounting           |      | non-flush mountable                                                               |
| Dimensions         | [mm] | M18 x 1 / L = 70                                                                  |
| Thread designation |      | M18 x 1                                                                           |
| Materials          |      | housing: stainless steel; sensing face: LCP natural; 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. |

## Inductive sensor

IGKC012-ASKG/US-104-DRS

### Electrical connection - plug

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

