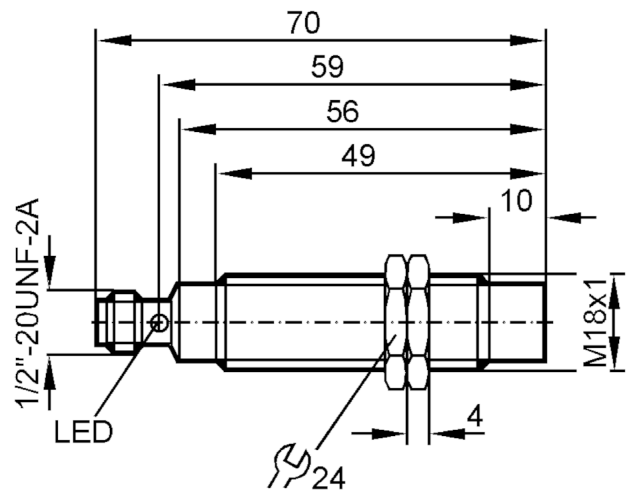




Inductive sensor

IGK2012-ARKA/M/LS-104AK



| Product characteristics                         |      |                                               |
|-------------------------------------------------|------|-----------------------------------------------|
| Output function                                 |      | normally open                                 |
| Sensing range                                   | [mm] | 12                                            |
| Housing                                         |      | threaded type                                 |
| Dimensions                                      | [mm] | M18 x 1                                       |
| Application                                     |      |                                               |
| Special feature                                 |      | Gold-plated contacts; Increased sensing range |
| Application                                     |      | Use in machine tools, coolants and lubricants |
| Electrical data                                 |      |                                               |
| Frequency AC                                    | [Hz] | 47...63                                       |
| Operating voltage                               | [V]  | 20...140 AC/DC                                |
| Protection class                                |      | II                                            |
| Reverse polarity protection                     |      | yes                                           |
| Max. power-on delay time                        | [ms] | 1000                                          |
| Outputs                                         |      |                                               |
| Output function                                 |      | normally open                                 |
| Max. voltage drop switching output DC           | [V]  | 5.5                                           |
| Max. voltage drop switching output AC           | [V]  | 5.5                                           |
| Minimum load current                            | [mA] | 5                                             |
| Max. leakage current                            | [mA] | 1                                             |
| Permanent current rating of switching output AC | [mA] | 200                                           |



## Inductive sensor

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|                                                 |      |                        |
|-------------------------------------------------|------|------------------------|
| Permanent current rating of switching output DC | [mA] | 200                    |
| Short-time current rating of switching output   | [mA] | 1200; (20 ms / 0,5 Hz) |
| Switching frequency AC                          | [Hz] | 25                     |
| Switching frequency DC                          | [Hz] | 400                    |
| 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: 0.5 / aluminium: 0.4 / copper: 0.3 |
| Hysteresis         | [X01] | 3...15                                                                      |
| Switch point drift | [X01] | -10...10                                                                    |

## Operating conditions

|                     |      |                    |
|---------------------|------|--------------------|
| Ambient temperature | [°C] | -25...70           |
| Protection          |      | IP 68; ("Coolant") |

## Tests / approvals

|             |                           |                   |
|-------------|---------------------------|-------------------|
| EMC         | EN 61000-4-2 ESD          | 4 kV CD / 8 kV AD |
|             | EN 61000-4-3 HF radiated  | 10 V/m            |
|             | EN 61000-4-4 Burst        | 2 kV              |
|             | EN 61000-4-6 HF conducted | 10 V              |
|             | EN 55011                  | class B           |
| MTTF        | [ANN]                     | 394               |
| UL approval | Ta                        | 0...40 °C         |
|             | Enclosure type            | Type 1            |
|             | подача напруги            | Hazardous voltage |
|             | File number UL            | E174191           |

## Mechanical data

|                    |      |                                                                  |
|--------------------|------|------------------------------------------------------------------|
| Weight             | [g]  | 74.4                                                             |
| Housing            |      | threaded type                                                    |
| Mounting           |      | non-flush mountable                                              |
| Dimensions         | [mm] | M18 x 1                                                          |
| Thread designation |      | M18 x 1                                                          |
| Materials          |      | housing: brass white bronze coated; sensing face: PBT uncoloured |

## Displays / operating elements

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

## Аксессуары

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

# IGC002



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### Remarks

Pack quantity 1 pcs.

### Electrical connection - plug

Connector: 1 x 1/2"; coding: C; Contacts: gold-plated

