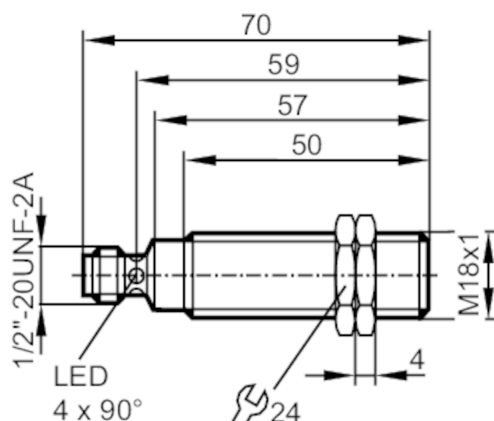


# IGT002



## Inductive sensor

IGK2005-ARKA/M/V4A/LS-104AK



### Product characteristics

|                    |                  |
|--------------------|------------------|
| Output function    | normally open    |
| Sensing range [mm] | 5                |
| Housing            | Threaded type    |
| Dimensions [mm]    | M18 x 1 / L = 70 |

### Application

|             |                                                    |
|-------------|----------------------------------------------------|
| Application | Use in hygienic areas / regular cleaning processes |
|-------------|----------------------------------------------------|

### Electrical data

|                               |                |
|-------------------------------|----------------|
| 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] | 80; (200 (...80 °C))   |
| Permanent current rating of switching output DC [mA] | 80; (200 (...80 °C))   |
| 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                     | yes (non-latching)     |
| Overload protection                                  | yes                    |

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| Monitoring range              |                           |                                                                                                     |
|-------------------------------|---------------------------|-----------------------------------------------------------------------------------------------------|
| Sensing range                 | [mm]                      | 5                                                                                                   |
| Operating distance            | [mm]                      | 0...4.05                                                                                            |
| Accuracy / deviations         |                           |                                                                                                     |
| Correction factor             |                           | steel: 1 / stainless steel: 0.7 / brass: 0.5 / aluminum: 0.4 / copper: 0.3                          |
| Hysteresis                    | [% of Sr]                 | 1...20                                                                                              |
| Operating conditions          |                           |                                                                                                     |
| Ambient temperature           | [°C]                      | 0...100                                                                                             |
| Protection                    |                           | IP 68; IP 69K; ("COP")                                                                              |
| 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 61000-4-5 Surge        | 0,5 kV line to line, Ri: 2 Ohm                                                                      |
|                               | EN 61000-4-6 HF conducted | 10 V                                                                                                |
|                               | EN 55011                  | class B                                                                                             |
| MTTF                          | [years]                   | 394                                                                                                 |
| UL approval                   | Ta                        | 0...40 °C                                                                                           |
|                               | Enclosure type            | Type 1                                                                                              |
|                               | File number UL            | E174191                                                                                             |
| Mechanical data               |                           |                                                                                                     |
| Weight                        | [g]                       | 60.6                                                                                                |
| Housing                       |                           | Threaded type                                                                                       |
| Mounting                      |                           | flush mountable                                                                                     |
| Dimensions                    | [mm]                      | M18 x 1 / L = 70                                                                                    |
| Thread designation            |                           | M18 x 1                                                                                             |
| Material                      |                           | threaded sleeve: stainless steel (1.4404 / 316L);<br>sensing face: PEEK; lock nuts: stainless steel |
| Displays / operating elements |                           |                                                                                                     |
| Display                       | Switching status          | 4 x 90° LED, yellow                                                                                 |
| Accessories                   |                           |                                                                                                     |
| Items supplied                |                           | lock nuts: 2                                                                                        |
| Remarks                       |                           |                                                                                                     |
| Pack quantity                 |                           | 1 pcs.                                                                                              |

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### Electrical connection - plug

Connector: 1 x 1/2"; coding: C

