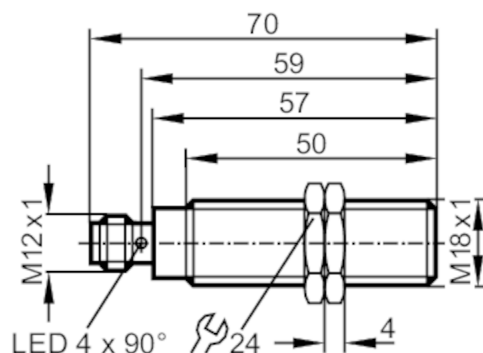




## Inductive full-metal sensor

IGK3005-BPKG/AM/US-104-DPS



| Application                                     |           |                                                                             |
|-------------------------------------------------|-----------|-----------------------------------------------------------------------------|
| Pressure rating                                 | [bar]     | 100                                                                         |
| Note on pressure rating                         |           | sensing face                                                                |
| Electrical data                                 |           |                                                                             |
| Operating voltage                               | [V]       | 10...36 DC                                                                  |
| Current consumption                             | [mA]      | < 20                                                                        |
| Protection class                                |           | III                                                                         |
| 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]      | 100                                                                         |
| Switching frequency DC                          | [Hz]      | 100                                                                         |
| Short-circuit protection                        |           | yes                                                                         |
| Type of short-circuit protection                |           | pulsed                                                                      |
| Overload protection                             |           | yes                                                                         |
| Detection zone                                  |           |                                                                             |
| Sensing range                                   | [mm]      | 5                                                                           |
| Operating distance                              | [mm]      | 0...4.05                                                                    |
| Accuracy / deviations                           |           |                                                                             |
| Correction factor                               |           | steel: 1 / stainless steel: 0.7 / brass: 0.6 / aluminium: 0.5 / copper: 0.3 |
| Hysteresis                                      | [% of Sr] | 1...20                                                                      |
| Operating conditions                            |           |                                                                             |
| Ambient temperature                             | [°C]      | 0...100                                                                     |
| Protection                                      |           | IP 68; IP 69K                                                               |



## Inductive full-metal sensor

IGK3005-BPKG/AM/US-104-DPS

| 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 emission         | class B                                                                                                                             |
| Impact resistance                                                                              | DIN EN 60068-2-75 Ehc     | 1 J                                                                                                                                 |
| MTTF                                                                                           | [years]                   | 1606                                                                                                                                |
| UL approval                                                                                    | Ta                        | 0...40 °C                                                                                                                           |
|                                                                                                | Enclosure type            | Type 1                                                                                                                              |
|                                                                                                | voltage supply            | Limited Voltage/Current                                                                                                             |
|                                                                                                | File number UL            | E174191                                                                                                                             |
| Mechanical data                                                                                |                           |                                                                                                                                     |
| Weight                                                                                         | [g]                       | 57.2                                                                                                                                |
| Housing                                                                                        |                           | threaded type                                                                                                                       |
| Mounting                                                                                       |                           | flush mountable                                                                                                                     |
| Dimensions                                                                                     | [mm]                      | M18 x 1 / L = 70                                                                                                                    |
| Thread designation                                                                             |                           | M18 x 1                                                                                                                             |
| Materials                                                                                      |                           | housing: stainless steel (1.4404 / 316L); sensing face: stainless steel (1.4404 / 316L); lock nuts: stainless steel (1.4404 / 316L) |
| Full-metal housing                                                                             |                           | yes                                                                                                                                 |
| Displays / operating elements                                                                  |                           |                                                                                                                                     |
| Display                                                                                        | switching status          | 4 x 90° LED, yellow                                                                                                                 |
| Accessories                                                                                    |                           |                                                                                                                                     |
| Accessories (supplied)                                                                         |                           | lock nuts: 2                                                                                                                        |
| Remarks                                                                                        |                           |                                                                                                                                     |
| Pack quantity                                                                                  |                           | 1 pcs.                                                                                                                              |
| Electrical connection - plug                                                                   |                           |                                                                                                                                     |
| Connector: 1 x M12; Contacts: gold-plated                                                      |                           |                                                                                                                                     |
| <div></div> |                           |                                                                                                                                     |

# IGT247

## Inductive full-metal sensor

IGK3005-BPKG/AM/US-104-DPS



### Connection

