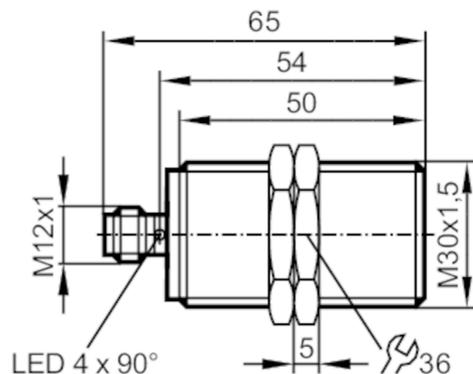




## Inductive full-metal sensor

IHK3010-BPKG/AM/US-104



| Product characteristics                              |  |
|--|--|
| Electrical design                                    | PNP  |
| Output function                                      | normally open                                      |
| Sensing range [mm]                                   | 10   |
| Housing  | threaded type                                      |
| Dimensions [mm]                                      | M30 x 1.5 / L = 65                                 |
| Application  |  |
| Special feature                                      | Gold-plated contacts; Full-metal housing           |
| Application  | Use in hygienic areas / regular cleaning processes |
| Pressure rating                                      | 100 bar / 10 MPa                                   |
| Note on pressure rating                              | sensing face                                       |
| Electrical data                                      |  |
| Operating voltage [V]                                | 10...30 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]                          | 50   |
| Short-circuit protection                             | yes  |
| Type of short-circuit protection                     | pulsed   |
| Overload protection                                  | yes  |
| Detection zone                                       |  |
| Sensing range [mm]                                   | 10   |
| Operating distance [mm]                              | 0...8.1  |



## Inductive full-metal sensor

IHK3010-BPKG/AM/US-104

| Accuracy / deviations         |  |                         |
|-------------------------------|--|-------------------------|
| Correction factor             | steel: 1 / stainless steel: 0.6 / brass: 0.8 / aluminium: 0.6 / copper: 0.2  |                         |
| Hysteresis [% of Sr]          | 1...20   |                         |
| Operating conditions          |  |                         |
| Ambient temperature [°C]      | 0...100  |                         |
| Protection                    | IP 68; IP 69K  |                         |
| 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             | 1 J  |                         |
| MTTF [years]                  | 1114   |                         |
| Embedded software included    | yes  |                         |
| UL approval                   | Ta   | -25...70 °C             |
|                               | Enclosure type   | Type 1                  |
|                               | power supply   | Limited Voltage/Current |
|                               | UL approval no.  | A012                    |
|                               | File number UL   | E174191                 |
| Mechanical data               |  |                         |
| Weight [g]                    | 137.5  |                         |
| Housing                       | threaded type  |                         |
| Mounting                      | flush mountable  |                         |
| Dimensions [mm]               | M30 x 1.5 / L = 65   |                         |
| Thread designation            | M30 x 1.5  |                         |
| Materials                     | housing: stainless steel (316L/1.4404); sensing face: stainless steel (316L/1.4404); LED window: PEI; lock nuts: stainless steel (316L/1.4404) |                         |
| Tightening torque [Nm]        | 80   |                         |
| Full-metal housing            | yes  |                         |
| Displays / operating elements |  |                         |
| Display                       | switching status   | 4 x 90° LED, yellow     |
| Accessories                   |  |                         |
| Items supplied                | lock nuts: 2   |                         |
| Remarks                       |  |                         |
| Pack quantity                 | 1 pcs.   |                         |
| Electrical connection         |  |                         |
|                               |  |                         |

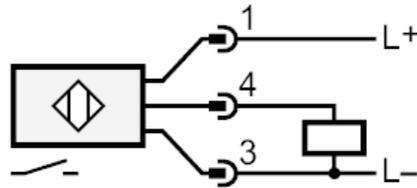
# IIT228



## Inductive full-metal sensor

IHK3010-BPKG/AM/US-104

### Connection



### Electrical connection - plug

Connector: 1 x M12; Contacts: gold-plated