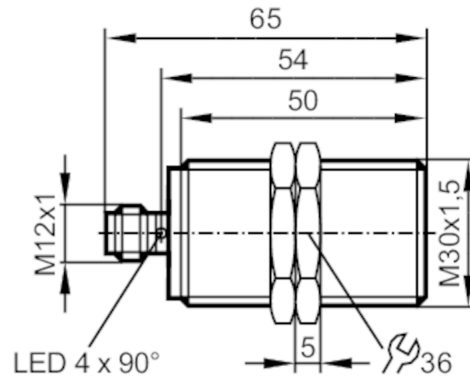


## Inductive full-metal sensor

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             | constant cleaning with aggressive cleaning agents; regular cleaning processes |
| Pressure rating [bar]   | 100                                                                           |
| 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           |

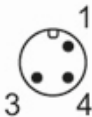
## Detection zone

|                         |         |
|-------------------------|---------|
| Sensing range [mm]      | 10      |
| Operating distance [mm] | 0...8.1 |



## Inductive full-metal sensor

IIK3010-BPKG/AM/US-104

| Accuracy / deviations                                                                          |                                                                                                                                                      |                         |
|------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------|
| Correction factor                                                                              | steel: 1 / stainless steel: 0.6 / brass: 0.8 / aluminium: 0.6 / copper: 0.2                                                                          |                         |
| Hysteresis                                                                                     | [X01]                                                                                                                                                | 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                                                                                           | [ANN]                                                                                                                                                | 1258                    |
| Embedded software included                                                                     | yes                                                                                                                                                  |                         |
| UL approval                                                                                    | Ta                                                                                                                                                   | -25...70 °C             |
|                                                                                                | Enclosure type                                                                                                                                       | Type 1                  |
|                                                                                                | подача напруги                                                                                                                                       | 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 (1.4404 / 316L); sensing face: stainless steel (1.4404 / 316L); LED window: PEI; lock nuts: stainless steel (1.4404 / 316L) |                         |
| Tightening torque                                                                              | [Nm]                                                                                                                                                 | 80                      |
| Full-metal housing                                                                             | yes                                                                                                                                                  |                         |
| Displays / operating elements                                                                  |                                                                                                                                                      |                         |
| Display                                                                                        | switching status                                                                                                                                     | 4 x 90° LED, yellow     |
| Аксессуары                                                                                     |                                                                                                                                                      |                         |
| Items supplied                                                                                 | lock nuts: 2                                                                                                                                         |                         |
| Remarks                                                                                        |                                                                                                                                                      |                         |
| Pack quantity                                                                                  | 1 pcs.                                                                                                                                               |                         |
| Electrical connection                                                                          |                                                                                                                                                      |                         |
| <div></div> |                                                                                                                                                      |                         |

## Inductive full-metal sensor

IIK3010-BPKG/AM/US-104

### Connection



### Electrical connection - plug

Connector: 1 x M12; Contacts: gold-plated