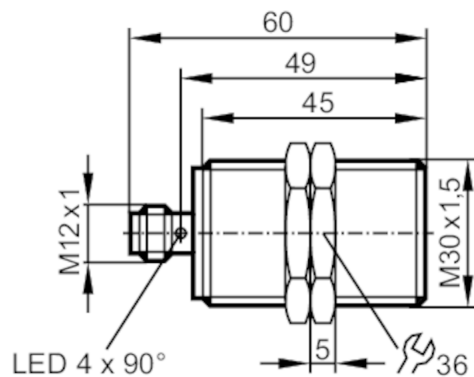




## Inductive sensor

IIK3015BBPKG/K1/US-104



## Product characteristics

|                    |                    |
|--------------------|--------------------|
| Electrical design  | PNP                |
| Output function    | normally open      |
| Sensing range [mm] | 15                 |
| Housing            | Threaded type      |
| Dimensions [mm]    | M30 x 1.5 / L = 60 |

## Application

|                                          |                                                                                                |
|------------------------------------------|------------------------------------------------------------------------------------------------|
| System                                   | gold-plated contacts; Increased sensing range; correction factor = 1; Magnetic-field immune    |
| Application                              | Suitable for industrial, mobile, cooling and lubricating applications; Industrial applications |
| Magnetic-field immune                    | yes                                                                                            |
| Max. electromagnetic field immunity [mT] | 300                                                                                            |

## 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]                          | 2000          |
| Short-circuit protection                             | yes           |
| Overload protection                                  | yes           |

## Monitoring range

|                            |           |
|----------------------------|-----------|
| Sensing range [mm]         | 15        |
| Real sensing range Sr [mm] | 15 ± 10 % |



## Inductive sensor

IHK3015BBPKG/K1/US-104

|                                      |                           |                                                                                                           |
|--------------------------------------|---------------------------|-----------------------------------------------------------------------------------------------------------|
| Operating distance                   | [mm]                      | 0...12.15                                                                                                 |
| Increased sensing range              |                           | yes                                                                                                       |
| <b>Accuracy / deviations</b>         |                           |                                                                                                           |
| Correction factor                    |                           | steel: 1 / stainless steel: 1 / brass: 1 / aluminum: 1 / copper: 1                                        |
| Hysteresis                           | [% of Sr]                 | 3...15                                                                                                    |
| Switch-point drift                   | [% of Sr]                 | -10...10                                                                                                  |
| Correction factor = 1                |                           | yes                                                                                                       |
| <b>Operating conditions</b>          |                           |                                                                                                           |
| Ambient temperature                  | [°C]                      | -40...85                                                                                                  |
| Protection                           |                           | IP 65; IP 66; IP 67; IP 68; IP 69K                                                                        |
| <b>Tests / approvals</b>             |                           |                                                                                                           |
| 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                                                                                                   |
| Vibration resistance                 | EN 60068-2-6 Fc           | 20 g (10...3000 Hz) / 50 sweep cycles per frequency; 1 octave per minute in 3 axes                        |
| Shock resistance                     | EN 60068-2-27 Ea          | 100 g 11 ms half-sine; 3 shocks each in every direction of the 3 coordinate axes                          |
| Continuous shock resistance          | EN 60068-2-27             | 40 g 6 ms; 4000 shocks each in every direction of the 3 coordinate axes                                   |
| Fast temperature changes             | EN 60068-2-14 Na          | TA = -40 °C; TB = 85 °C; t1 = 30 min; t2 = < 10 s; 50 cycles                                              |
| Salt spray test                      | EN 60068-2-52 Kb          | severity level 5 (4 test cycles)                                                                          |
| MTTF                                 | [years]                   | 471                                                                                                       |
| Embedded software included           |                           | yes                                                                                                       |
| UL approval                          | Ta                        | -25...70 °C                                                                                               |
|                                      | Enclosure type            | Type 1                                                                                                    |
|                                      | voltage supply            | Limited Voltage/Current                                                                                   |
|                                      | UL approval number        | A005                                                                                                      |
|                                      | File number UL            | E174191                                                                                                   |
| <b>Mechanical data</b>               |                           |                                                                                                           |
| Weight                               | [g]                       | 106.4                                                                                                     |
| Housing                              |                           | Threaded type                                                                                             |
| Mounting                             |                           | flush mountable                                                                                           |
| Dimensions                           | [mm]                      | M30 x 1.5 / L = 60                                                                                        |
| Thread designation                   |                           | M30 x 1.5                                                                                                 |
| Material                             |                           | brass white bronze coated; sensing face: LCP white; LED window: PEI; lock nuts: brass white bronze coated |
| <b>Displays / operating elements</b> |                           |                                                                                                           |
| Display                              | Switching status          | 4 x LED, yellow                                                                                           |
| <b>Accessories</b>                   |                           |                                                                                                           |
| Items supplied                       |                           | lock nuts: 2                                                                                              |
| <b>Remarks</b>                       |                           |                                                                                                           |
| Pack quantity                        |                           | 1 pcs.                                                                                                    |

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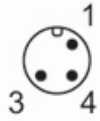


## Inductive sensor

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### Electrical connection - plug

Connector: 1 x M12; coding: A; Contacts: gold-plated



### Connection

