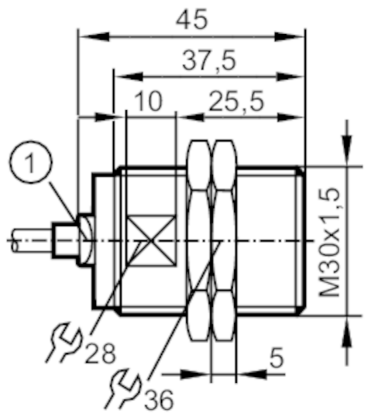


# IIS701



## Inductive sensor

IIB3015BBPKG/2M/PUR



1 LED yellow



### Product characteristics

|                    |                    |
|--------------------|--------------------|
| Electrical design  | PNP                |
| Output function    | normally open      |
| Sensing range [mm] | 15                 |
| Housing            | threaded type      |
| Dimensions [mm]    | M30 x 1.5 / L = 45 |

### Application

|                 |                                              |
|-----------------|----------------------------------------------|
| Special feature | Increased sensing range                      |
| Application     | Industrial applications / factory automation |

### Electrical data

|                             |            |
|-----------------------------|------------|
| Operating voltage [V]       | 10...30 DC |
| Current consumption [mA]    | < 10       |
| 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           |
| Overload protection                                  | yes           |

### Detection zone

|                            |           |
|----------------------------|-----------|
| Sensing range [mm]         | 15        |
| Real sensing range Sr [mm] | 15 ± 10 % |
| Operating distance [mm]    | 0...12.15 |
| Increased sensing range    | yes       |



## Inductive sensor

IIB3015BBPKG/2M/PUR

| Accuracy / deviations         |                                                                                                            |                                                                                  |
|-------------------------------|------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------|
| Correction factor             | steel: 1 / stainless steel: 0.7 / brass: 0.5 / aluminium: 0.4 / copper: 0.3                                |                                                                                  |
| Hysteresis                    | [X01]                                                                                                      | 3...15                                                                           |
| Switch point drift            | [X01]                                                                                                      | -10...10                                                                         |
| Operating conditions          |                                                                                                            |                                                                                  |
| Ambient temperature           | [°C]                                                                                                       | -40...85                                                                         |
| Protection                    | IP 65; IP 66; IP 67; 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                                                                                                   | class B                                                                          |
| Vibration resistance          | EN 60068-2-6 Fc                                                                                            | 20 g (10...3000 Hz) / 50 sweep cycles, 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 change       | 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                          | [ANN]                                                                                                      | 829                                                                              |
| Embedded software included    | yes                                                                                                        |                                                                                  |
| UL approval                   | Ta                                                                                                         | -25...75 °C                                                                      |
|                               | Enclosure type                                                                                             | Type 1                                                                           |
|                               | подача напруги                                                                                             | Limited Voltage/Current                                                          |
|                               | UL Approval no.                                                                                            | A002                                                                             |
|                               | File number UL                                                                                             | E174191                                                                          |
| Mechanical data               |                                                                                                            |                                                                                  |
| Weight                        | [g]                                                                                                        | 150.46                                                                           |
| Housing                       | threaded type                                                                                              |                                                                                  |
| Mounting                      | flush mountable                                                                                            |                                                                                  |
| Dimensions                    | [mm]                                                                                                       | M30 x 1.5 / L = 45                                                               |
| Thread designation            | M30 x 1.5                                                                                                  |                                                                                  |
| Materials                     | brass white bronze coated; sensing face: PBT orange; LED window: PEI; lock nuts: brass white bronze coated |                                                                                  |
| Tightening torque             | [Nm]                                                                                                       | see operating instructions                                                       |
| Displays / operating elements |                                                                                                            |                                                                                  |
| Display                       | switching status                                                                                           | 1 x LED, yellow                                                                  |
| Аксессуары                    |                                                                                                            |                                                                                  |
| Items supplied                | lock nuts: 2                                                                                               |                                                                                  |
|                               | Tooth lock washer: 1, stainless steel                                                                      |                                                                                  |
| Remarks                       |                                                                                                            |                                                                                  |
| Pack quantity                 | 1 pcs.                                                                                                     |                                                                                  |

# IIS701



## Inductive sensor

IIB3015BBPKG/2M/PUR

### Electrical connection

Cable: 2 m, PUR, Ø 4 mm; burning behaviour to ECE R118 rev. 2; 3 x 0.34 mm<sup>2</sup>

### Connection



|      |                |
|------|----------------|
| BK = | Core colours : |
| BN = | black          |
| BU = | brown          |
|      | blue           |