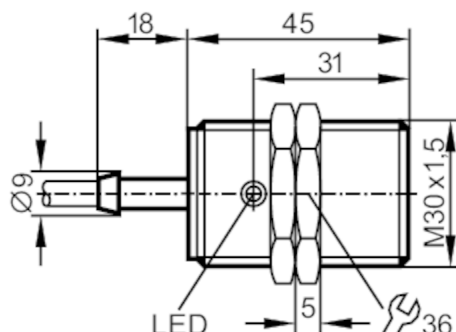


## Inductive sensor

IIB3010-BPKG



## Product characteristics

|                    |                    |
|--------------------|--------------------|
| Electrical design  | PNP                |
| Output function    | normally open      |
| Sensing range [mm] | 10                 |
| Housing            | threaded type      |
| Dimensions [mm]    | M30 x 1.5 / L = 45 |

## Electrical data

|                             |            |
|-----------------------------|------------|
| Operating voltage [V]       | 18...36 DC |
| Current consumption [mA]    | 15; (24 V) |
| 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] | 125; (150 (...50 °C)) |
| Switching frequency DC [Hz]                          | 300                   |
| Short-circuit protection                             | yes                   |
| Type of short-circuit protection                     | pulsed                |
| Overload protection                                  | yes                   |

## Detection zone

|                            |           |
|----------------------------|-----------|
| Sensing range [mm]         | 10        |
| Real sensing range Sr [mm] | 10 ± 10 % |
| Operating distance [mm]    | 0...8.1   |

## Accuracy / deviations

|                              |                                                                             |
|------------------------------|-----------------------------------------------------------------------------|
| Correction factor            | steel: 1 / stainless steel: 0.7 / brass: 0.4 / aluminium: 0.3 / copper: 0.2 |
| Hysteresis [% of Sr]         | 1...15                                                                      |
| Switch point drift [% of Sr] | -10...10                                                                    |

# II5166



## Inductive sensor

IIB3010-BPKG

| Operating conditions          |                  |                                        |
|-------------------------------|------------------|----------------------------------------|
| Ambient temperature           | [°C]             | -25...80                               |
| Protection                    |                  | IP 67                                  |
| Tests / approvals             |                  |                                        |
| EMC                           | EN 60947-5-2     |                                        |
| MTTF                          | [years]          | 2279                                   |
| Mechanical data               |                  |                                        |
| Weight                        | [g]              | 222.5                                  |
| Housing                       |                  | threaded type                          |
| Mounting                      |                  | flush mountable                        |
| Dimensions                    | [mm]             | M30 x 1.5 / L = 45                     |
| Thread designation            |                  | M30 x 1.5                              |
| Materials                     |                  | brass nickel-plated; sensing face: PBT |
| Displays / operating elements |                  |                                        |
| Display                       | switching status | 1 x LED, yellow                        |
| Accessories                   |                  |                                        |
| Items supplied                |                  | lock nuts: 2                           |
| Remarks                       |                  |                                        |
| Pack quantity                 |                  | 1 pcs.                                 |
| Electrical connection         |                  |                                        |
| Cable: 2 m, PVC; 3 x 0.5 mm²  |                  |                                        |
| Connection                    |                  |                                        |



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