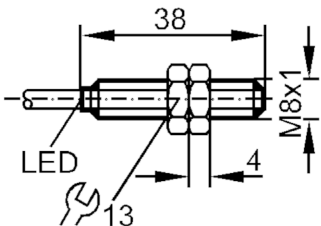




Inductive sensor

IEB3002BBPKG/3M/FH      RT



| Product characteristics                         |      |               |
|-------------------------------------------------|------|---------------|
| Electrical design                               |      | PNP           |
| Output function                                 |      | normally open |
| Sensing range                                   | [mm] | 2             |
| Housing                                         |      | threaded type |
| Dimensions                                      | [mm] | M8 x 1        |
| Application                                     |      |               |
| Special feature                                 |      | Halogen-free  |
| Electrical data                                 |      |               |
| Operating voltage                               | [V]  | 10...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] | 200           |
| Switching frequency DC                          | [Hz] | 1000          |
| Short-circuit protection                        |      | yes           |
| Overload protection                             |      | yes           |

# IE5249



## Inductive sensor

IEB3002BBPKG/3M/FH RT

| Detection zone                |                           |                                                                             |
|-------------------------------|---------------------------|-----------------------------------------------------------------------------|
| Sensing range                 | [mm]                      | 2                                                                           |
| Real sensing range Sr         | [mm]                      | 2 ± 10 %                                                                    |
| Operating distance            | [mm]                      | 0...1.62                                                                    |
| Accuracy / deviations         |                           |                                                                             |
| Correction factor             |                           | steel: 1 / stainless steel: 0.7 / brass: 0.5 / aluminium: 0.4 / copper: 0.3 |
| Hysteresis                    | [X01]                     | 1...15                                                                      |
| Switch point drift            | [X01]                     | -10...10                                                                    |
| Operating conditions          |                           |                                                                             |
| Ambient temperature           | [°C]                      | -25...70                                                                    |
| Protection                    |                           | IP 67                                                                       |
| Tests / approvals             |                           |                                                                             |
| EMC                           | EN 61000-4-2 ESD          | 4 kV CD / 8 kV AD                                                           |
|                               | EN 61000-4-3 HF radiated  | 3 V/m                                                                       |
|                               | EN 61000-4-4 Burst        | 2 kV                                                                        |
|                               | EN 61000-4-6 HF conducted | 3 V                                                                         |
|                               | EN 55011                  | class B                                                                     |
| MTTF                          | [ANN]                     | 2804                                                                        |
| Mechanical data               |                           |                                                                             |
| Weight                        | [g]                       | 76.5                                                                        |
| Housing                       |                           | threaded type                                                               |
| Mounting                      |                           | flush mountable                                                             |
| Dimensions                    | [mm]                      | M8 x 1                                                                      |
| Thread designation            |                           | M8 x 1                                                                      |
| Materials                     |                           | LCP; brass white bronze coated                                              |
| Tightening torque             | [Nm]                      | A = 5 mm: 1 Nm; B: 2 Nm                                                     |
| Displays / operating elements |                           |                                                                             |
| Display                       | switching status          | 1 x LED, red                                                                |
| Аксессуары                    |                           |                                                                             |
| Items supplied                |                           | lock nuts: 2                                                                |
| Remarks                       |                           |                                                                             |
| Pack quantity                 |                           | 1 pcs.                                                                      |

# IE5249



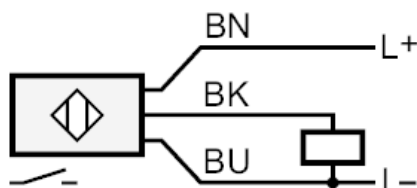
## Inductive sensor

IEB3002BBPKG/3M/FH RT

### Electrical connection

Cable: 3 m, PUR, Halogen-free; flame-retardant (FRNC); 3 x 0.14 mm<sup>2</sup>

### Connection



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

### Diagrams and graphs

#### Installation

