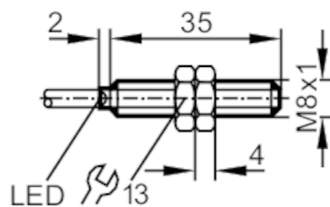




## Inductive sensor

IEB21,5-ARKG/0,5M



## Product characteristics

|                    |                 |
|--------------------|-----------------|
| Electrical design  | PNP/NPN         |
| Output function    | normally open   |
| Sensing range [mm] | 1.5             |
| Housing            | Threaded type   |
| Dimensions [mm]    | M8 x 1 / L = 37 |

## Electrical data

|                             |            |
|-----------------------------|------------|
| Operating voltage [V]       | 10...30 DC |
| Protection class            | III        |
| Reverse polarity protection | yes        |

## Outputs

|                                                      |                    |
|------------------------------------------------------|--------------------|
| Electrical design                                    | PNP/NPN            |
| Output function                                      | normally open      |
| Max. voltage drop switching output DC [V]            | 2.8                |
| Minimum load current [mA]                            | 2                  |
| Max. leakage current [mA]                            | 0.4                |
| Permanent current rating of switching output DC [mA] | 100                |
| Switching frequency DC [Hz]                          | 1000               |
| Short-circuit protection                             | yes                |
| Type of short-circuit protection                     | yes (non-latching) |
| Overload protection                                  | yes                |

## Monitoring range

|                               |                |
|-------------------------------|----------------|
| Sensing range [mm]            | 1.5            |
| Real sensing range $S_r$ [mm] | $1.5 \pm 10\%$ |
| Operating distance [mm]       | 0...1.2        |

## Accuracy / deviations

|                              |                                                                            |
|------------------------------|----------------------------------------------------------------------------|
| Correction factor            | steel: 1 / stainless steel: 0.7 / brass: 0.5 / aluminum: 0.4 / copper: 0.3 |
| Hysteresis [% of Sr]         | 1...15                                                                     |
| Switch-point drift [% of Sr] | -10...10                                                                   |

## Operating conditions

|                          |        |
|--------------------------|--------|
| Ambient temperature [°C] | 0...60 |
| Protection               | IP 67  |

# IE5373



## Inductive sensor

IEB21,5-ARKG/0,5M

### Tests / approvals

|              |                |           |
|--------------|----------------|-----------|
| EMC          | EN 60947-5-2   |           |
| MTTF [years] |                | 3004      |
| UL approval  | Ta             | 0...60 °C |
|              | Enclosure type | Type 1    |
|              | voltage supply | Class 2   |
|              | File number UL | E174191   |

### Mechanical data

|                        |                                              |
|------------------------|----------------------------------------------|
| Weight [g]             | 25                                           |
| Housing                | Threaded type                                |
| Mounting               | flush mountable                              |
| Dimensions [mm]        | M8 x 1 / L = 37                              |
| Thread designation     | M8 x 1                                       |
| Material               | brass white bronze coated; sensing face: LCP |
| Tightening torque [Nm] | A = 5 mm: 1,5 Nm; B: 2 Nm                    |

### Displays / operating elements

|         |                  |                 |
|---------|------------------|-----------------|
| Display | Switching status | 1 x LED, yellow |
|---------|------------------|-----------------|

### Accessories

|                |              |
|----------------|--------------|
| Items supplied | lock nuts: 2 |
|----------------|--------------|

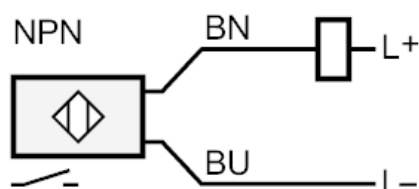
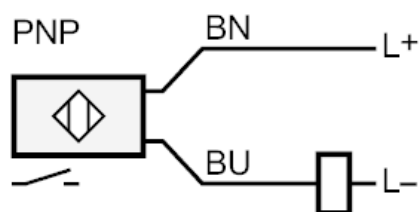
### Remarks

|               |        |
|---------------|--------|
| Pack quantity | 1 pcs. |
|---------------|--------|

### Electrical connection

Cable: 0.5 m, PPU; 2 x 0.14 mm<sup>2</sup>

### Connection



Core colors :  
BN = brown  
BU = blue

# IE5373

## Inductive sensor

IEB21,5-ARKG/0,5M



### Diagrams and graphs

#### Installation

