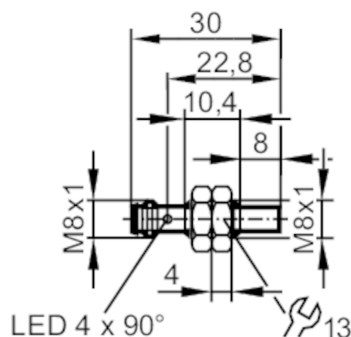




## Inductive sensor

IEB3004-APKG/V4A/AS



## Product characteristics

|                    |                 |
|--------------------|-----------------|
| Electrical design  | PNP             |
| Output function    | normally closed |
| Sensing range [mm] | 4               |
| Housing            | Threaded type   |
| Dimensions [mm]    | M8 x 1 / L = 30 |

## Application

|        |   |
|--------|---|
| System | gold-plated contacts; Increased sensing range |
|--------|---|

## 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 closed |
| Max. voltage drop switching output DC [V]            | 2.5             |
| Permanent current rating of switching output DC [mA] | 100             |
| Switching frequency DC [Hz]                          | 800             |
| Short-circuit protection                             | yes             |
| Overload protection                                  | yes             |

## Monitoring range

|                               |              |
|-------------------------------|--------------|
| Sensing range [mm]            | 4            |
| Real sensing range $S_r$ [mm] | $4 \pm 10\%$ |
| Operating distance [mm]       | 0...3.25     |
| Increased sensing range       | yes          |

## Accuracy / deviations

|                                  |  |
|----------------------------------|--|
| Correction factor                | steel: 1 / stainless steel: 0.7 / brass: 0.5 / aluminum: 0.5 / copper: 0.4 |
| Hysteresis [% of $S_r$ ]         | 1...20   |
| Switch-point drift [% of $S_r$ ] | -10...10   |

# IE5422



## Inductive sensor

IEB3004-APKG/V4A/AS

| Operating conditions                                |                           |  |
|---|---------------------------|--|
| Ambient temperature                                 | [°C]                      | -25...70   |
| Protection  |                           | IP 65; IP 67; (with ifm socket duly screwed on)  |
| 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 emission         | class B  |
| MTTF  | [years]                   | 1443   |
| Embedded software included                          |                           | yes  |
| UL approval   | Ta                        | -25...70 °C  |
|   | Enclosure type            | Type 1   |
|   | voltage supply            | Limited Voltage/Current  |
|   | UL approval number        | A017   |
|   | File number UL            | E174191  |
| Mechanical data                                     |                           |  |
| Weight  | [g]                       | 15   |
| Housing   |                           | Threaded type  |
| Mounting  |                           | non-flush mountable  |
| Dimensions  | [mm]                      | M8 x 1 / L = 30  |
| Thread designation                                  |                           | M8 x 1   |
| Material  |                           | stainless steel; sensing face: LCP orange; LED window: PPSU; lock nuts: stainless steel (1.4401 / 316) |
| Tightening torque                                   | [Nm]                      | A = 5 mm: 2 Nm; B = 5 Nm   |
| Displays / operating elements                       |                           |  |
| Display   | Switching status          | 4 LED, yellow  |
| Accessories   |                           |  |
| Items supplied                                      |                           | lock nuts: 2   |
| Remarks   |                           |  |
| Pack quantity                                       |                           | 1 pcs.   |
| Electrical connection - plug                        |                           |  |
| Connector: 1 x M8; coding: A; Contacts: gold-plated |                           |  |
|   |                           |  |

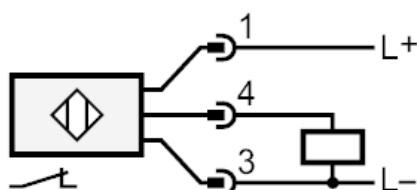
# IE5422



## Inductive sensor

IEB3004-APKG/V4A/AS

### Connection



### Diagrams and graphs

#### Installation

