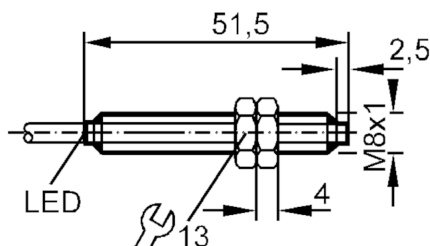


# IE5317



## Inductive sensor

IEA3004-BPKG/4M/PH RT



### Product characteristics

|                    |                   |
|--------------------|-------------------|
| Electrical design  | PNP               |
| Output function    | normally open     |
| Sensing range [mm] | 4                 |
| Housing            | Threaded type     |
| Dimensions [mm]    | M8 x 1 / L = 51.5 |

### Application

|        |                         |
|--------|-------------------------|
| System | Increased sensing range |
|--------|-------------------------|

### 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]                          | 800           |
| Short-circuit protection                             | yes           |
| Overload protection                                  | yes           |

### Monitoring range

|                            |          |
|----------------------------|----------|
| Sensing range [mm]         | 4        |
| Real sensing range Sr [mm] | 4 ± 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: 0.4 / copper: 0.3 |
| Hysteresis [% of Sr]         | 1...20                                                                     |
| Switch-point drift [% of Sr] | -10...10                                                                   |

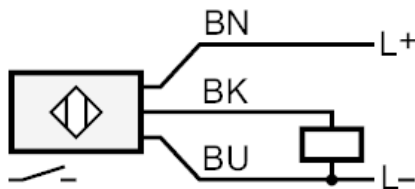
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Inductive sensor

IEA3004-BPKG/4M/PH     RT

| 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                                      | [years]                   | 2717                                                                                                          |
| Mechanical data                           |                           |                                                                                                               |
| Weight                                    | [g]                       | 97.5                                                                                                          |
| Housing                                   |                           | Threaded type                                                                                                 |
| Mounting                                  |                           | non-flush mountable                                                                                           |
| Dimensions                                | [mm]                      | M8 x 1 / L = 51.5                                                                                             |
| Thread designation                        |                           | M8 x 1                                                                                                        |
| Material                                  |                           | brass white bronze coated; sensing face: PBT orange;<br>LED window: PEI; lock nuts: 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                                                                                                  |
| Accessories                               |                           |                                                                                                               |
| Items supplied                            |                           | lock nuts: 2                                                                                                  |
| Remarks                                   |                           |                                                                                                               |
| Pack quantity                             |                           | 1 pcs.                                                                                                        |
| Electrical connection                     |                           |                                                                                                               |
| Cable: 4 m, PUR; 3 x 0.14 mm <sup>2</sup> |                           |                                                                                                               |
| Connection                                |                           |                                                                                                               |



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### Diagrams and graphs

#### Installation

