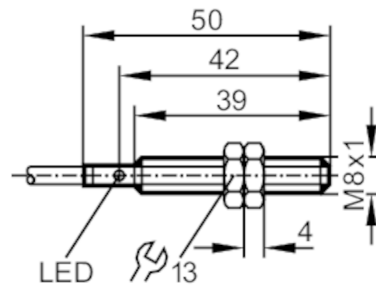


# IE5123



## Inductive sensor

IEA3001-ANKG



### Product characteristics

|                    |                 |
|--------------------|-----------------|
| Electrical design  | NPN             |
| Output function    | normally open   |
| Sensing range [mm] | 1               |
| Housing            | threaded type   |
| Dimensions [mm]    | M8 x 1 / L = 50 |

### Electrical data

|                             |            |
|-----------------------------|------------|
| Operating voltage [V]       | 10...36 DC |
| Current consumption [mA]    | 15; (24 V) |
| Protection class            | III        |
| Reverse polarity protection | yes        |

### Outputs

|  |               |
|--|---------------|
| Electrical design                                    | NPN           |
| 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]                          | 750           |
| Notes on switching frequency                         | 1000 nb       |
| Short-circuit protection                             | yes           |
| Overload protection                                  | yes           |

### Detection zone

|                            |          |
|----------------------------|----------|
| Sensing range [mm]         | 1        |
| Real sensing range Sr [mm] | 1 ± 10 % |
| Operating distance [mm]    | 0...0.8  |

### 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  |

### Operating conditions

|                          |          |
|--------------------------|----------|
| Ambient temperature [°C] | -25...80 |
| Protection               | IP 67    |

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| 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]                   | 2673              |

| Mechanical data    |      |                                |
|--------------------|------|--------------------------------|
| Weight             | [g]  | 52.4                           |
| Housing            |      | threaded type                  |
| Mounting           |      | flush mountable                |
| Dimensions         | [mm] | M8 x 1 / L = 50                |
| Thread designation |      | M8 x 1                         |
| Materials          |      | brass white bronze coated; PBT |
| Tightening torque  | [Nm] | A = 5 mm: 1 Nm; B: 2 Nm        |

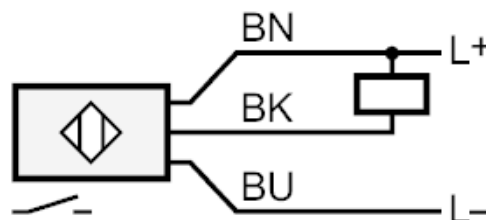
| Displays / operating elements |                  |                 |
|-------------------------------|------------------|-----------------|
| Display                       | switching status | 1 x LED, yellow |

| Accessories            |  |              |
|------------------------|--|--------------|
| Accessories (supplied) |  | lock nuts: 2 |

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

| Electrical connection                     |  |  |
|---|--|--|
| Cable: 2 m, PVC; 3 x 0.14 mm <sup>2</sup> |  |  |

### Connection



Core colours :

- BN = brown
- BU = blue
- BK = black

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### Diagrams and graphs

#### Installation

