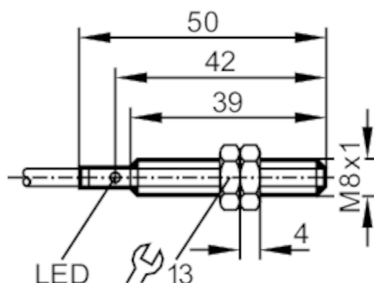




## Inductive sensor

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 [Hz]                    | 1000 nb       |
| Short-circuit protection                             | yes           |
| Overload protection                                  | yes           |

## Monitoring range

|                               |              |
|-------------------------------|--------------|
| Sensing range [mm]            | 1            |
| Real sensing range $S_r$ [mm] | $1 \pm 10\%$ |
| Operating distance [mm]       | 0...0.8      |

## Accuracy / deviations

|                                  |                                                                            |
|----------------------------------|----------------------------------------------------------------------------|
| Correction factor                | steel: 1 / stainless steel: 0.7 / brass: 0.4 / aluminum: 0.3 / copper: 0.2 |
| Hysteresis [% of $S_r$ ]         | 1...15                                                                     |
| Switch-point drift [% of $S_r$ ] | -10...10                                                                   |

## Operating conditions

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

IE5123



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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              |

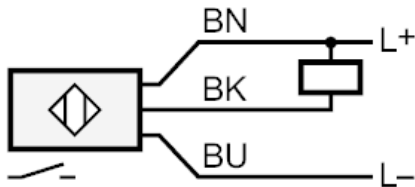
| Mechanical data    |      |                                |
|--------------------|------|--------------------------------|
| Weight             | [g]  | 51                             |
| Housing            |      | Threaded type                  |
| Mounting           |      | flush mountable                |
| Dimensions         | [mm] | M8 x 1 / L = 50                |
| Thread designation |      | M8 x 1                         |
| Material           |      | 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    |              |
|----------------|--------------|
| Items supplied | lock nuts: 2 |

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

| Electrical connection         |  |
|-------------------------------|--|
| Cable: 2 m, PVC; 3 x 0.14 mm² |  |
| Connection                    |  |



|      |               |
|------|---------------|
|      | Core colors : |
| BN = | brown         |
| BU = | blue          |
| BK = | black         |

# IE5123

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### Diagrams and graphs

#### Installation

