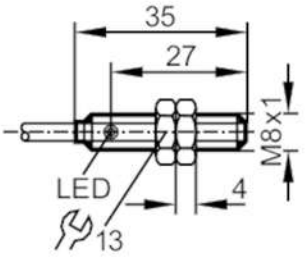
# IE5330

## Inductive sensor

IEB3001-ANKG/3M




| | | |
|---|---|---|
| **Product characteristics** | | |
| Electrical design | | NPN |
| Output function | | normally open |
| Sensing range | [mm] | 1 |
| Housing | | threaded type |
| Dimensions | [mm] | M8 x 1 / L = 35 |
| **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 |
| **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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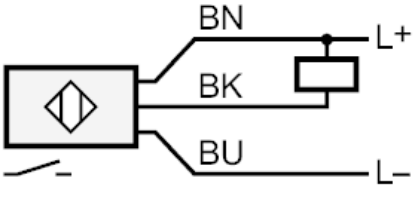
| | | | |
|---|---|---|---|
| **Tests / approvals** | | | |
| EMC | | EN 61000-4-2 ESD | 4 kV CD / 8 kV AD |
| | | EN 61000-4-3 HF radiated | 3 V/m |
| | | EN 61000-4-4 Burst | 2 kV |
| | | EN 61000-4-6 HF conducted | 3 V |
| | | EN 55011 | class B |
| MTTF | [years] | 2673 | |
| **Mechanical data** | | | |
| Weight | [g] | 67.9 | |
| Housing | | threaded type | |
| Mounting | | flush mountable | |
| Dimensions | [mm] | M8 x 1 / L = 35 | |
| 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** | | | |
| Items supplied | | lock nuts: 2 | |
| **Remarks** | | | |
| Pack quantity | | 1 pcs. | |
| **Electrical connection** | | | |

Cable: 3 m, PVC; 3 x 0.14 mm²

Connection




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

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## Diagrams and graphs

Installation

