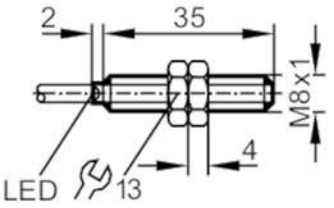
# IE5454

## Inductive sensor

IEB21,5-ARKG/5M




| | | |
|---|---|---|
| **Product characteristics** | | |
| Electrical design | | PNP/NPN |
| Output function | | normally open |
| Sensing range | [mm] | 1.5 |
| Housing | | threaded type |
| Dimensions | [mm] | M8 x 1 / L = 37 |
| **Electrical data** | | |
| Operating voltage | [V] | 10...30 DC |
| Protection class | | III |
| Reverse polarity protection | | yes |
| **Outputs** | | |
| Electrical design | | PNP/NPN |
| Output function | | normally open |
| Max. voltage drop switching output DC | [V] | 2.8 |
| Minimum load current | [mA] | 2 |
| Max. leakage current | [mA] | 0.4 |
| Permanent current rating of switching output DC | [mA] | 100 |
| Switching frequency DC | [Hz] | 1000 |
| Short-circuit protection | | yes |
| Overload protection | | yes |
| **Detection zone** | | |
| Sensing range | [mm] | 1.5 |
| Real sensing range Sr | [mm] | 1.5 ± 10 % |
| Operating distance | [mm] | 0...1.2 |
| **Accuracy / deviations** | | |
| Correction factor | | steel: 1 / stainless steel: 0.7 / brass: 0.5 / aluminium: 0.4 / copper: 0.3 |
| Hysteresis | [% of Sr] | 1...15 |
| Switch point drift | [% of Sr] | -10...10 |
| **Operating conditions** | | |
| Ambient temperature | [°C] | 0...60 |
| Protection | | IP 67 |
| **Tests / approvals** | | |
| EMC | | EN 60947-5-2 |

# IE5454

## Inductive sensor

**IEB21,5-ARKG/5M**

| Mechanical data | | |
|---|---|---|
| Weight | [g] | 88.2 |
| Housing | | threaded type |
| Mounting | | flush mountable |
| Dimensions | [mm] | M8 x 1 / L = 37 |
| Thread designation | | M8 x 1 |
| Materials | | brass white bronze coated; sensing face: LCP |

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

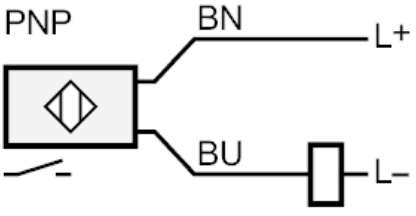
| Accessories | |
|---|---|
| Items supplied | lock nuts: 2 |

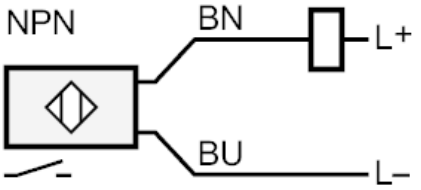
| Remarks | |
|---|---|
| Pack quantity | 1 pcs. |

**Electrical connection**

Cable: 5 m, PPU; 2 x 0.14 mm²

Connection




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