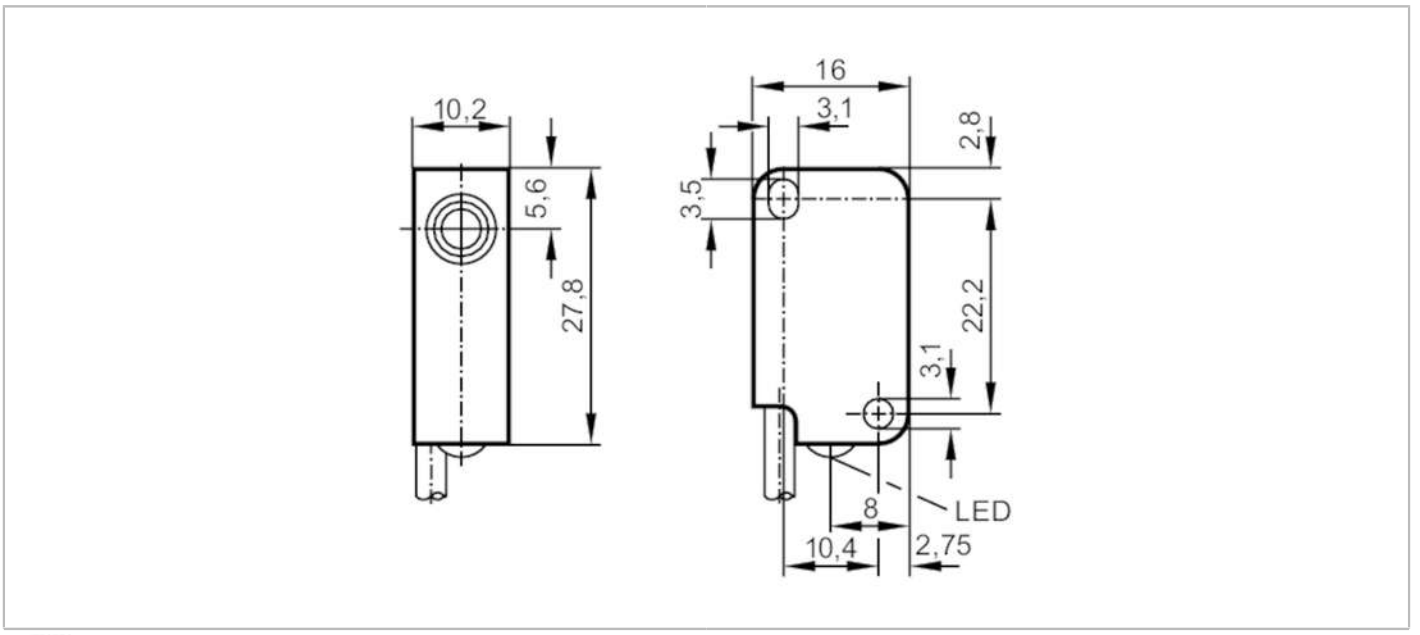
# IS0008

## Inductive sensor

IS-2002-BROA/12"K




| | | |
|---|---|---|
| **Product characteristics** | | |
| Output function | | normally closed |
| Sensing range | [mm] | 2 |
| Housing | | rectangular |
| Dimensions | [mm] | 28 x 10 x 16 |
| **Electrical data** | | |
| Frequency AC | [Hz] | 45...65 |
| Operating voltage | [V] | 20...140 AC / 10...140 DC |
| Protection class | | II |
| Reverse polarity protection | | no |
| **Outputs** | | |
| Output function | | normally closed |
| Max. voltage drop switching output DC | [V] | 5 |
| Max. voltage drop switching output AC | [V] | 5 |
| Minimum load current | [mA] | 5 |
| Max. leakage current | [mA] | 0.8 |
| Permanent current rating of switching output AC | [mA] | 200 |
| Permanent current rating of switching output DC | [mA] | 200 |
| Short-time current rating of switching output | [mA] | 900;  (20 ms / 0,5 Hz) |
| Switching frequency AC | [Hz] | 25 |
| Switching frequency DC | [Hz] | 25 |
| Short-circuit protection | | no |
| Overload protection | | no |

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| | | | |
|---|---|---|---|
| **Detection zone** | | | |
| Sensing range | [mm] | 2 | |
| Real sensing range Sr | [mm] | 2 ± 10 % | |
| Operating distance | [mm] | 0...1.6 | |
| **Accuracy / deviations** | | | |
| Correction factor | | steel: 1 / stainless steel: 0.9 / brass: 0.8 / aluminium: 0.5 / copper: 0.46 | |
| Hysteresis | [% of Sr] | 1...15 | |
| Switch point drift | [% of Sr] | -10...10 | |
| **Operating conditions** | | | |
| Ambient temperature | [°C] | -20...80 | |
| Protection | | IP 67 | |
| **Tests / approvals** | | | |
| EMC | | EN 60947-5-2 | |
| | | EN 55011 | class B |
| MTTF | [years] | 1698 | |
| **Mechanical data** | | | |
| Weight | [g] | 14.9 | |
| Housing | | rectangular | |
| Mounting | | flush mountable | |
| Dimensions | [mm] | 28 x 10 x 16 | |
| Materials | | PBT | |
| Tightening torque | [Nm] | < 0.5;  (with washer) | |
| **Displays / operating elements** | | | |
| Display | | switching status | 1 x LED, red |
| **Electrical connection** | | | |
| Required protection | | miniature fuse to IEC60127-2 sheet 1; ≤ 2 A; fast acting | |
| **Remarks** | | | |
| Remarks | | Recommendation: Check the safe functioning of the unit after a short circuit. | |
| Pack quantity | | 1 pcs. | |

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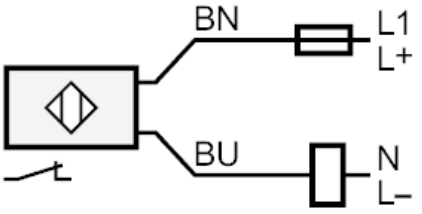
## Electrical connection

Cable: 0.3 m, PVC; 2 x 0.25 mm²

### Connection




Core colours

| | |
|---|---|
| BN | brown |
| BU | blue |