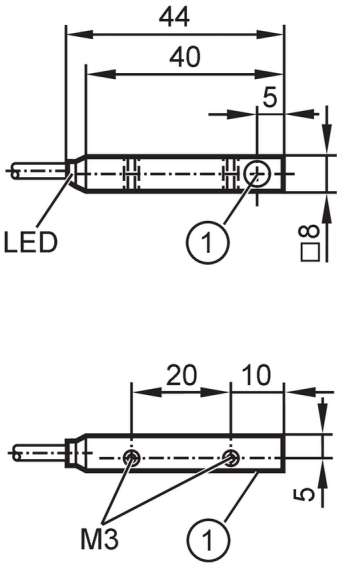
# IL5002

## Inductive sensor

ILA3002-BPKG/OBEN/PH RT




1 Sensing face

| | | |
|---|---|---|
| **Product characteristics** | | |
| Electrical design | | PNP |
| Output function | | normally open |
| Sensing range | [mm] | 2 |
| Housing | | rectangular |
| Dimensions | [mm] | 40 x 8 x 8 |
| **Application** | | |
| Application | | Industrial applications / factory automation; For use where space is restricted |
| **Electrical data** | | |
| Operating voltage | [V] | 10...36 DC |
| Current consumption | [mA] | 15; (24 V) |
| Protection class | | III |
| Reverse polarity protection | | yes |
| **Outputs** | | |
| Electrical design | | PNP |
| Output function | | normally open |
| Max. voltage drop switching output DC | [V] | 2.5 |
| Permanent current rating of switching output DC | [mA] | 250 |
| Switching frequency DC | [Hz] | 2000 |
| Short-circuit protection | | yes |
| Type of short-circuit protection | | pulsed |
| Overload protection | | yes |
| **Detection zone** | | |
| Sensing range | [mm] | 2 |

# IL5002

## Inductive sensor

ILA3002-BPKG/OBEN/PH RT

| | | | |
|---|---|---|---|
| Real sensing range Sr | [mm] | 2 ± 10 % | |
| Operating distance | [mm] | 0...1.6 | |
| **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] | -25...70 | |
| Protection | | IP 65 | |
| **Tests / approvals** | | | |
| EMC | | EN 60947-5-2 | |
| MTTF | [years] | 3449 | |
| UL approval | | Ta | -25...70 °C |
| | | Enclosure type | Type 1 |
| | | voltage supply | Limited Voltage/Current |
| | | File number UL | E174191 |
| **Mechanical data** | | | |
| Weight | [g] | 42 | |
| Housing | | rectangular | |
| Mounting | | flush mountable | |
| Dimensions | [mm] | 40 x 8 x 8 | |
| Materials | | housing: brass white bronze coated; sensing face: LCP | |
| Tightening torque | [Nm] | 1; (insertion depth: > 5 mm) | |
| **Displays / operating elements** | | | |
| Display | | switching status | 1 x LED, red |
| **Remarks** | | | |
| Pack quantity | | 1 pcs. | |

# IL5002

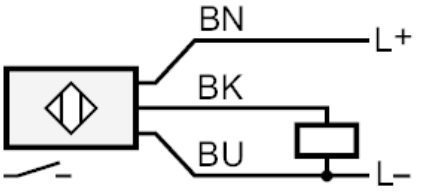
## Inductive sensor

**ILA3002-BPKG/OBEN/PH** **RT**

## Electrical connection

Cable: 2 m, PUR; 3 x 0.14 mm²

### Connection




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