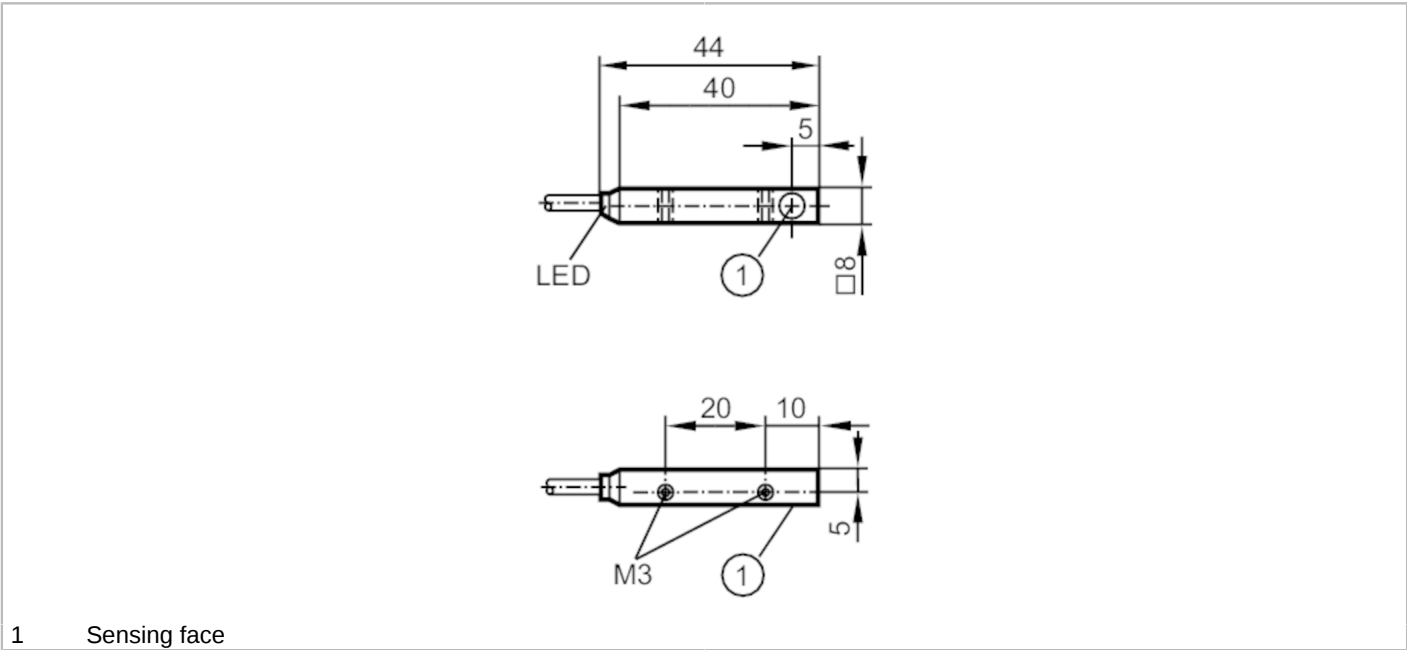




Inductive sensor

ILA3002-BPKG/OBEN/PH     RT



| Product characteristics                         |      |               |
|-------------------------------------------------|------|---------------|
| Electrical design                               |      | PNP           |
| Output function                                 |      | normally open |
| Sensing range                                   | [mm] | 2             |
| Housing                                         |      | rectangular   |
| Dimensions                                      | [mm] | 40 x 8 x 8    |
| 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             |
| Real sensing range Sr                           | [mm] | 2 ± 10 %      |

IL5002



Inductive sensor

ILA3002-BPKG/OBEN/PH     RT

|                    |      |         |
|--------------------|------|---------|
| 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         | [X01]                                                                       | 1...15   |
| Switch point drift | [X01]                                                                       | -10...10 |

Operating conditions

|                     |      |          |
|---------------------|------|----------|
| Ambient temperature | [°C] | -25...70 |
| Protection          |      | IP 65    |

Tests / approvals

|             |                |                         |
|-------------|----------------|-------------------------|
| EMC         | EN 60947-5-2   |                         |
| MTTF        | [ANN]          | 3449                    |
| UL approval | Ta             | -25...70 °C             |
|             | Enclosure type | Type 1                  |
|             | подача напруги | 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         |      | 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 |
|---------|------------------|--------------|

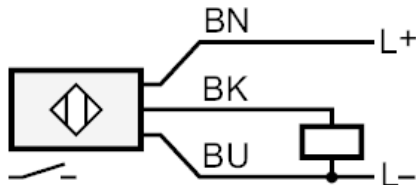
Remarks

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

Electrical connection

Cable: 2 m, PUR; 3 x 0.14 mm²

Connection



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