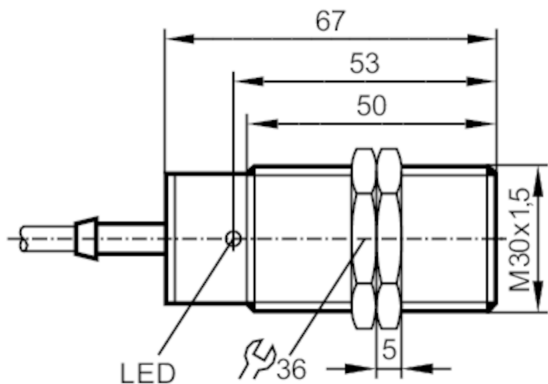




Inductive sensor

IIA4010ZCPKG/BH



| Product characteristics                         |      |                       |
|-------------------------------------------------|------|-----------------------|
| Electrical design                               |      | PNP                   |
| Output function                                 |      | complementary         |
| Sensing range                                   | [mm] | 10                    |
| Housing                                         |      | threaded type         |
| Dimensions                                      | [mm] | M30 x 1.5 / L = 67    |
| Electrical data                                 |      |                       |
| Operating voltage                               | [V]  | 10...36 DC            |
| Current consumption                             | [mA] | 15; (24 V)            |
| Protection class                                |      | II                    |
| Reverse polarity protection                     |      | yes                   |
| Outputs                                         |      |                       |
| Electrical design                               |      | PNP                   |
| Output function                                 |      | complementary         |
| Max. voltage drop switching output DC           | [V]  | 2.5                   |
| Permanent current rating of switching output DC | [mA] | 100; (250 (...80 °C)) |
| Switching frequency DC                          | [Hz] | 400                   |
| Short-circuit protection                        |      | yes                   |
| Type of short-circuit protection                |      | pulsed                |
| Overload protection                             |      | yes                   |
| Detection zone                                  |      |                       |
| Sensing range                                   | [mm] | 10                    |
| Real sensing range Sr                           | [mm] | 10 ± 10 %             |
| Operating distance                              | [mm] | 0...8.1               |



Inductive sensor

IIA4010ZCPKG/BH

Accuracy / deviations

|                    |                                                                             |          |
|--------------------|-----------------------------------------------------------------------------|----------|
| Correction factor  | steel: 1 / stainless steel: 0.7 / brass: 0.5 / aluminium: 0.4 / copper: 0.3 |          |
| Hysteresis         | [% of Sr]                                                                   | 3...15   |
| Switch point drift | [% of Sr]                                                                   | -10...10 |

Operating conditions

|                     |      |           |
|---------------------|------|-----------|
| Ambient temperature | [°C] | -25...100 |
| Protection          |      | IP 67     |

Tests / approvals

|      |              |         |
|------|--------------|---------|
| EMC  | EN 60947-5-2 |         |
|      | EN 55011     | class B |
| MTTF | [years]      | 1365    |

Mechanical data

|                    |      |                          |
|--------------------|------|--------------------------|
| Weight             | [g]  | 231.5                    |
| Housing            |      | threaded type            |
| Mounting           |      | flush mountable          |
| Dimensions         | [mm] | M30 x 1.5 / L = 67       |
| Thread designation |      | M30 x 1.5                |
| Materials          |      | brass nickel-plated; PBT |

Displays / operating elements

|         |                  |                 |
|---------|------------------|-----------------|
| Display | switching status | 1 x LED, yellow |
|---------|------------------|-----------------|

Accessories

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

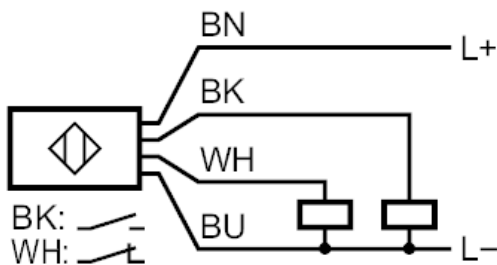
Remarks

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

Electrical connection

Cable: 2 m, PUR; 4 x 0.34 mm²

Connection



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