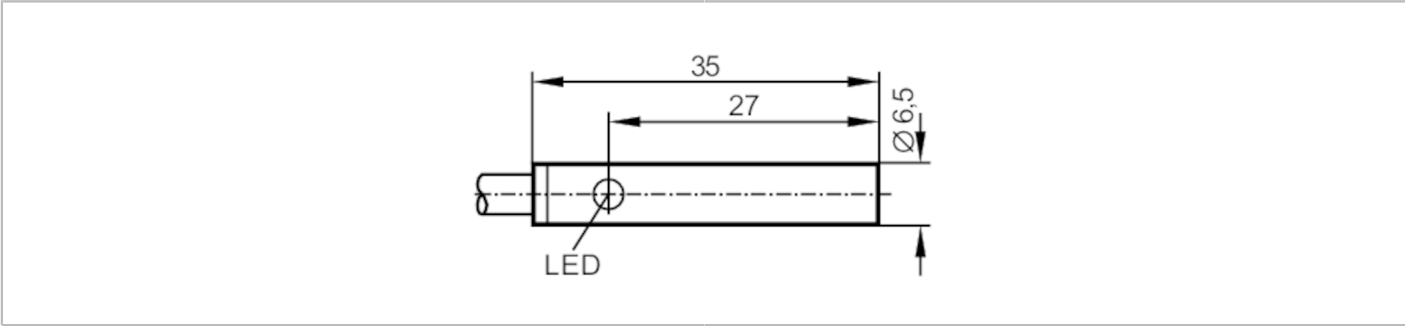




Inductive sensor

ITB2001-BROG

phase-out article



| Product characteristics                         |       |                                                                             |
|-------------------------------------------------|-------|-----------------------------------------------------------------------------|
| Electrical design                               |       | PNP/NPN                                                                     |
| Output function                                 |       | normally closed                                                             |
| Sensing range                                   | [mm]  | 1                                                                           |
| Housing                                         |       | cylindrical                                                                 |
| Dimensions                                      | [mm]  | Ø 6.5 / L = 35                                                              |
| Electrical data                                 |       |                                                                             |
| Operating voltage                               | [V]   | 10...36 DC                                                                  |
| Protection class                                |       | III                                                                         |
| Reverse polarity protection                     |       | yes                                                                         |
| Outputs                                         |       |                                                                             |
| Electrical design                               |       | PNP/NPN                                                                     |
| Output function                                 |       | normally closed                                                             |
| Max. voltage drop switching output DC           | [V]   | 3.5                                                                         |
| Minimum load current                            | [mA]  | 4                                                                           |
| Max. leakage current                            | [mA]  | 0.8                                                                         |
| Permanent current rating of switching output DC | [mA]  | 200                                                                         |
| Switching frequency DC                          | [Hz]  | 900                                                                         |
| Short-circuit protection                        |       | no                                                                          |
| Overload protection                             |       | no                                                                          |
| Detection zone                                  |       |                                                                             |
| Sensing range                                   | [mm]  | 1                                                                           |
| Real sensing range Sr                           | [mm]  | 1 ± 10 %                                                                    |
| Operating distance                              | [mm]  | 0...0.81                                                                    |
| Accuracy / deviations                           |       |                                                                             |
| Correction factor                               |       | steel: 1 / stainless steel: 0.7 / brass: 0.4 / aluminium: 0.3 / copper: 0.2 |
| Hysteresis                                      | [X01] | 1...15                                                                      |
| Switch point drift                              | [X01] | -10...10                                                                    |
| Operating conditions                            |       |                                                                             |
| Ambient temperature                             | [°C]  | -25...80                                                                    |



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|            |       |
|------------|-------|
| Protection | IP 67 |
|------------|-------|

Tests / approvals

|      |                           |                   |
|------|---------------------------|-------------------|
| EMC  | EN 61000-4-2 ESD          | 4 kV CD / 8 kV AD |
|      | EN 61000-4-3 HF radiated  | 3 V/m             |
|      | EN 61000-4-4 Burst        | 2 kV              |
|      | EN 61000-4-6 HF conducted | 3 V               |
| MTTF | [ANN]                     | 5569              |

Mechanical data

|            |      |                          |
|------------|------|--------------------------|
| Weight     | [g]  | 46.1                     |
| Housing    |      | cylindrical              |
| Mounting   |      | flush mountable          |
| Dimensions | [mm] | Ø 6.5 / L = 35           |
| Materials  |      | brass nickel-plated; PBT |

Displays / operating elements

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

Аксессуары

|                |                     |
|----------------|---------------------|
| Items supplied | кріпильні хомути: 1 |
|----------------|---------------------|

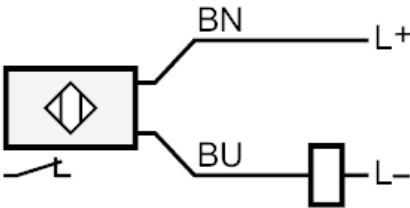
Remarks

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

Electrical connection

Cable: 2 m, PVC; 2 x 0.14 mm²

Connection



BK = Core colours :  
black