



Inductive sensor

IS-3002-BPKG/4M



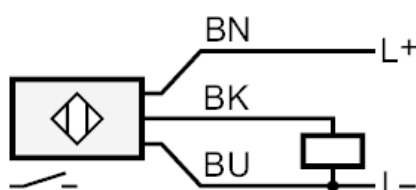
| Product characteristics                         |      |               |
|-------------------------------------------------|------|---------------|
| Electrical design                               |      | PNP           |
| Output function                                 |      | normally open |
| Sensing range                                   | [mm] | 2             |
| Housing                                         |      | rectangular   |
| Dimensions                                      | [mm] | 28 x 10 x 16  |
| Electrical data                                 |      |               |
| Operating voltage                               | [V]  | 10...30 DC    |
| Current consumption                             | [mA] | < 15          |
| 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] | 200           |
| Switching frequency DC                          | [Hz] | 800           |
| Short-circuit protection                        |      | yes           |
| Overload protection                             |      | yes           |
| Detection zone                                  |      |               |
| Sensing range                                   | [mm] | 2             |
| Real sensing range Sr                           | [mm] | 2 ± 10 %      |
| Operating distance                              | [mm] | 0...1.62      |
| Increased sensing range                         |      | no            |



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| 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                 |
| Protection                                          |                                                                             | IP 67                    |
| Tests / approvals                                   |                                                                             |                          |
| EMC                                                 | EN 61000-4-2 ESD                                                            | -- CD / 8 kV AD          |
|                                                     | EN 61000-4-3 HF radiated                                                    | 10 V/m                   |
|                                                     | EN 61000-4-4 Burst                                                          | 2 kV                     |
|                                                     | EN 61000-4-5 Surge                                                          | 0,5 kV                   |
|                                                     | EN 61000-4-6 HF conducted                                                   | 10 V                     |
|                                                     | EN 55011                                                                    | class B                  |
| MTTF                                                | [ANN]                                                                       | 3044                     |
| Mechanical data                                     |                                                                             |                          |
| Weight                                              | [g]                                                                         | 75.8                     |
| Housing                                             |                                                                             | rectangular              |
| Mounting                                            |                                                                             | flush mountable          |
| Dimensions                                          | [mm]                                                                        | 28 x 10 x 16             |
| Materials                                           |                                                                             | housing: PBT; cover: PBT |
| Tightening torque                                   | [Nm]                                                                        | < 0.5; (with washer)     |
| Displays / operating elements                       |                                                                             |                          |
| Display                                             | switching status                                                            | 1 x LED, yellow          |
| Remarks                                             |                                                                             |                          |
| Pack quantity                                       |                                                                             | 1 pcs.                   |
| Electrical connection                               |                                                                             |                          |
| Cable: 4 m, PVC, Ø 3.5 mm; 3 x 0.14 mm <sup>2</sup> |                                                                             |                          |
| Connection                                          |                                                                             |                          |



Core colours :

BN = brown

BU = blue

BK = black