

IN502A



Inductive sensor

IN-3002-BPKG/3D

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- 1 mounting hole
- 2 threaded bush M3 Depth 5.8 mm



Product characteristics

|                    |               |
|--------------------|---------------|
| Electrical design  | PNP           |
| Output function    | normally open |
| Sensing range [mm] | 2             |
| Housing            | rectangular   |
| Dimensions [mm]    | 40 x 12 x 26  |

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                |
| Max. leakage current [mA]                            | 0.5                |
| Permanent current rating of switching output DC [mA] | 250                |
| Switching frequency DC [Hz]                          | 1400               |
| Short-circuit protection                             | yes                |
| Type of short-circuit protection                     | yes (non-latching) |
| Overload protection                                  | yes                |

Monitoring range

|                    |   |
|--------------------|---|
| Sensing range [mm] | 2 |
|--------------------|---|

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|                               |                           |                                                                                                             |
|-------------------------------|---------------------------|-------------------------------------------------------------------------------------------------------------|
| Real sensing range Sr         | [mm]                      | 2 ± 10 %                                                                                                    |
| Operating distance            | [mm]                      | 0...1.6                                                                                                     |
| Accuracy / deviations         |                           |                                                                                                             |
| Correction factor             |                           | steel: 1 / stainless steel: 0.7 / brass: 0.4 / aluminum: 0.3 / copper: 0.2                                  |
| Hysteresis                    | [% of Sr]                 | 1...15                                                                                                      |
| Switch-point drift            | [% of Sr]                 | -10...10                                                                                                    |
| Operating conditions          |                           |                                                                                                             |
| Ambient temperature           | [°C]                      | -20...60                                                                                                    |
| Protection                    |                           | IP 67                                                                                                       |
| Tests / approvals             |                           |                                                                                                             |
| ATEX marking                  |                           |  II 3D tD A22 IP67 T90°C X |
| EMC                           | EN 61000-4-2 ESD          | - kV CD / 8 kV AD                                                                                           |
|                               | EN 61000-4-3 HF radiated  | 10 V/m                                                                                                      |
|                               | EN 61000-4-4 Burst        | 2 kV                                                                                                        |
|                               | EN 61000-4-6 HF conducted | 10 V                                                                                                        |
|                               | EN 55011 emission         | class B                                                                                                     |
| Mechanical data               |                           |                                                                                                             |
| Weight                        | [g]                       | 0.127                                                                                                       |
| Housing                       |                           | rectangular                                                                                                 |
| Mounting                      |                           | flush mountable                                                                                             |
| Dimensions                    | [mm]                      | 40 x 12 x 26                                                                                                |
| Material                      |                           | PBT                                                                                                         |
| Mounting hole                 |                           |                                                                                                             |
| Tightening torque             | [Nm]                      | < 0.5                                                                                                       |
| Threaded bush                 |                           |                                                                                                             |
| Tightening torque             | [Nm]                      | < 1.2; (when brass insert in contact with counterpart)                                                      |
| Displays / operating elements |                           |                                                                                                             |
| Display                       | Switching status          | 1 x LED, yellow                                                                                             |
| Remarks                       |                           |                                                                                                             |
| Pack quantity                 |                           | 1 pcs.                                                                                                      |

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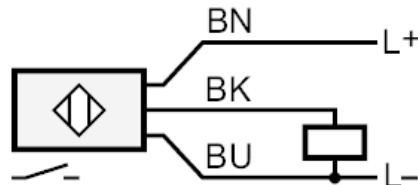
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### Electrical connection

Cable: 2 m, PVC; 3 x 0.5 mm<sup>2</sup>

### Connection



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