



Inductive sensor

IN-2002-ABOA/F/6M

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Alternative articles: IN0074  
When selecting an alternative article and accessories please note that technical data may differ!

1 mounting hole  
2 threaded bush M3 Depth 5.8 mm



| Product characteristics                         |      |                                                 |
|-------------------------------------------------|------|-------------------------------------------------|
| Output function                                 |      | normally open                                   |
| Sensing range                                   | [mm] | 2                                               |
| Housing                                         |      | rectangular                                     |
| Dimensions                                      | [mm] | 40 x 12 x 26                                    |
| Electrical data                                 |      |                                                 |
| Operating voltage                               | [V]  | 20...250 AC/DC                                  |
| Protection class                                |      | II                                              |
| Reverse polarity protection                     |      | no                                              |
| Outputs                                         |      |                                                 |
| Output function                                 |      | normally open                                   |
| Max. voltage drop switching output DC           | [V]  | 6                                               |
| Max. voltage drop switching output AC           | [V]  | 6.7                                             |
| Minimum load current                            | [mA] | 4                                               |
| Max. leakage current                            | [mA] | 2.0 (250 V AC) / 1.3 (110 V AC) / 0.8 (24 V DC) |
| Permanent current rating of switching output AC | [mA] | 250; (350 (...50 °C))                           |
| Permanent current rating of switching output DC | [mA] | 100                                             |
| Short-time current rating of switching output   | [mA] | 2100; (50 ms / 1 Hz)                            |
| Switching frequency AC                          | [Hz] | 25                                              |
| Switching frequency DC                          | [Hz] | 50                                              |



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|                               |                                                                             |                                                        |
|-------------------------------|-----------------------------------------------------------------------------|--------------------------------------------------------|
| Short-circuit protection      |                                                                             | no                                                     |
| Overload protection           |                                                                             | no                                                     |
| Detection zone                |                                                                             |                                                        |
| Sensing range                 | [mm]                                                                        | 2                                                      |
| 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 / aluminium: 0.3 / copper: 0.2 |                                                        |
| Hysteresis                    | [% of Sr]                                                                   | 1...15                                                 |
| Switch point drift            | [% of Sr]                                                                   | -10...10                                               |
| Operating conditions          |                                                                             |                                                        |
| Ambient temperature           | [°C]                                                                        | -20...80                                               |
| Protection                    | IP 67                                                                       |                                                        |
| Tests / approvals             |                                                                             |                                                        |
| EMC                           | EN 60947-5-2                                                                |                                                        |
|                               | EN 55011                                                                    | class B                                                |
| Mechanical data               |                                                                             |                                                        |
| Housing                       | rectangular                                                                 |                                                        |
| Mounting                      | flush mountable                                                             |                                                        |
| Dimensions                    | [mm]                                                                        | 40 x 12 x 26                                           |
| Materials                     | 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.                                                                      |                                                        |

# IN0095



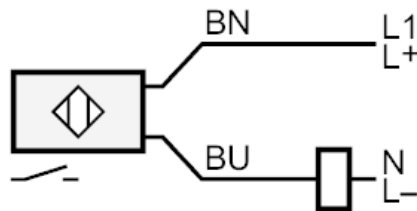
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### Electrical connection

Cable: 6 m, PVC; 2 x 0.5 mm<sup>2</sup>

### Connection



BN = Core colours :  
brown  
BU = blue