

IN0074

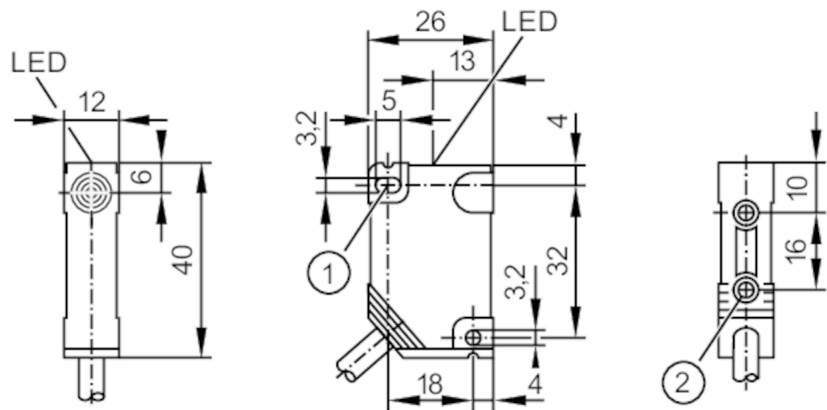


Inductive sensor

IN-2002-ABOA/6M

Article no longer available - archive entry

Alternative articles: IN0073  
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                     |      | yes                                             |
| 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] | 5                                               |
| 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] | 2200; (50 ms / 1 Hz)                            |
| Switching frequency AC                          | [Hz] | 25                                              |
| Switching frequency DC                          | [Hz] | 50                                              |



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|                               |                                                                               |                                                        |
|-------------------------------|-------------------------------------------------------------------------------|--------------------------------------------------------|
| Short-circuit proof           | 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: 0.25 / aluminium: 0.2 / copper: 0.05 |                                                        |
| Hysteresis                    | [% of Sr]                                                                     | 1...20                                                 |
| Switch point drift            | [% of Sr]                                                                     | -10...10                                               |
| Operating conditions          |                                                                               |                                                        |
| Ambient temperature           | [°C]                                                                          | -25...80                                               |
| 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 61000-4-5 Surge                                                            | 1 kV line to line, Ri: 2 Ohm                           |
|                               | EN 61000-4-6 HF conducted                                                     | 3 V                                                    |
|                               | EN 55011 emission                                                             | class B                                                |
| MTTF                          | [years]                                                                       | 609                                                    |
| Mechanical data               |                                                                               |                                                        |
| Weight                        | [g]                                                                           | 0.293                                                  |
| 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                                        |
| Electrical connection         |                                                                               |                                                        |
| Required protection           | miniature fuse to IEC60127-2 sheet 1; ≤ 2 A; fast acting                      |                                                        |
| Remarks                       |                                                                               |                                                        |
| Remarks                       | Recommendation: Check the safe functioning of the unit after a short circuit. |                                                        |
| Pack quantity                 | 1 pcs.                                                                        |                                                        |



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### Electrical connection

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

### Connection



Note miniature fuse to IEC60127-2 sheet 1  $\leq$  2 A fast acting  
Core colours :

BN =

brown

BU =

blue