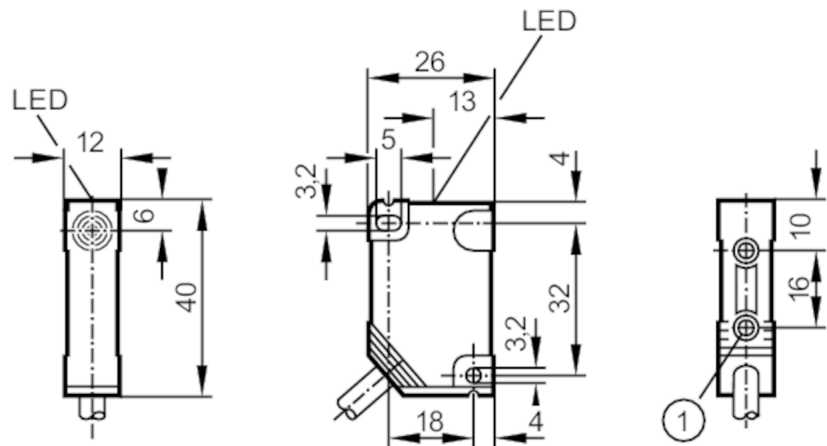


# IN5451



## Inductive sensor

IN-3007-BPKG/0,3M/AS



- 1 threaded bush M3 Depth 5.8 mm  
Tightening torque maximum 1.2 Nm screw fixing class 8.8  
when brass insert in contact with counterpart



### Product characteristics

|                    |               |
|--------------------|---------------|
| Electrical design  | PNP           |
| Output function    | normally open |
| Sensing range [mm] | 7             |
| Housing            | rectangular   |
| Dimensions [mm]    | 40 x 12 x 26  |

### Electrical data

|                             |                                                |
|-----------------------------|------------------------------------------------|
| Operating voltage [V]       | 10...36 DC; ("supply class 2" according to UL) |
| 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] | 250           |
| Switching frequency DC [Hz]                          | 300           |
| Short-circuit protection                             | yes           |
| Type of short-circuit protection                     | pulsed        |
| Overload protection                                  | yes           |

### Detection zone

|                            |          |
|----------------------------|----------|
| Sensing range [mm]         | 7        |
| Real sensing range Sr [mm] | 7 ± 10 % |
| Operating distance [mm]    | 0...5.67 |



## Inductive sensor

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| 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]                                                                        | 0...60             |
| Protection                                                                                     | IP 67                                                                       |                    |
| Tests / approvals                                                                              |                                                                             |                    |
| EMC                                                                                            | EN 61000-4-2 ESD                                                            | 8 kV CD / 15 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            |
| UL approval                                                                                    | Ta                                                                          | -25...40 °C        |
|                                                                                                | Enclosure type                                                              | Type 1             |
|                                                                                                | power supply                                                                | Class 2            |
|                                                                                                | File number UL                                                              | E174191            |
| Mechanical data                                                                                |                                                                             |                    |
| Weight                                                                                         | [g]                                                                         | 26.9               |
| Housing                                                                                        | rectangular                                                                 |                    |
| Mounting                                                                                       | non-flush mountable                                                         |                    |
| Dimensions                                                                                     | [mm]                                                                        | 40 x 12 x 26       |
| Materials                                                                                      | PBT                                                                         |                    |
| Displays / operating elements                                                                  |                                                                             |                    |
| Display                                                                                        | switching status                                                            | 1 x LED, yellow    |
| Remarks                                                                                        |                                                                             |                    |
| Pack quantity                                                                                  | 1 pcs.                                                                      |                    |
| Electrical connection - plug                                                                   |                                                                             |                    |
| Cable: 0.3 m, PUR, Ø 3.5 mm; 3 x 0.14 mm²                                                      |                                                                             |                    |
| Connector: 1 x M8, straight; coding: A                                                         |                                                                             |                    |
| <div></div> |                                                                             |                    |



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### Connection

