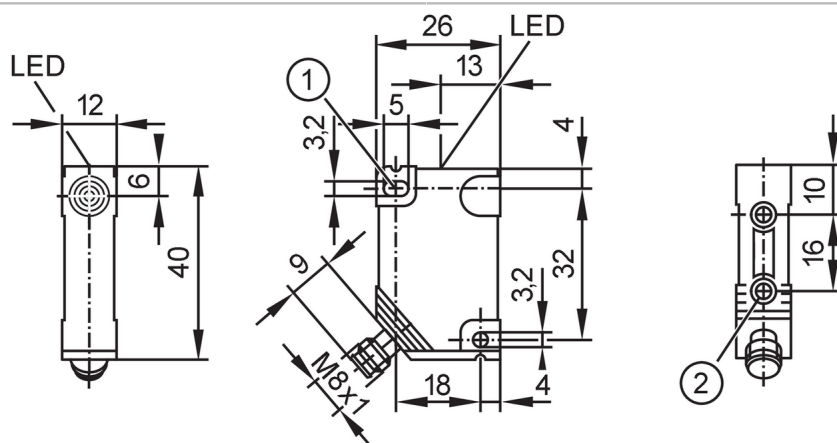




## Inductive sensor

IN-3004-BPKG/AS-610-TPS



- 1 fixing hole  
2 threaded bush M3 Depth 5.8 mm



## Product characteristics

|                    |               |
|--------------------|---------------|
| Electrical design  | PNP           |
| Output function    | normally open |
| Sensing range [mm] | 4             |
| 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           |
| Permanent current rating of switching output DC [mA] | 250           |
| Switching frequency DC [Hz]                          | 1300          |
| Short-circuit protection                             | yes           |
| Type of short-circuit protection                     | pulsed        |
| Overload protection                                  | yes           |

## Detection zone

|                               |               |
|-------------------------------|---------------|
| Sensing range [mm]            | 4             |
| Real sensing range $S_r$ [mm] | $4 \pm 10 \%$ |
| Operating distance [mm]       | 0...3.25      |

## Accuracy / deviations

|                          |                                                                             |
|--------------------------|-----------------------------------------------------------------------------|
| Correction factor        | steel: 1 / stainless steel: 0.7 / brass: 0.4 / aluminium: 0.3 / copper: 0.2 |
| Hysteresis [% of $S_r$ ] | 1...15                                                                      |



## Inductive sensor

IN-3004-BPKG/AS-610-TPS

|                    |           |          |
|--------------------|-----------|----------|
| Switch point drift | [% of Sr] | -10...10 |
|--------------------|-----------|----------|

## Operating conditions

|                     |      |          |
|---------------------|------|----------|
| Ambient temperature | [°C] | -25...80 |
| Protection          |      | IP 65    |

## Tests / approvals

|             |                |                         |
|-------------|----------------|-------------------------|
| EMC         | EN 60947-5-2   |                         |
|             | EN 55011       | class B                 |
| MTTF        | [years]        | 1925                    |
| UL approval | Ta             | 0...40 °C               |
|             | Enclosure type | Type 1                  |
|             | voltage supply | Limited Voltage/Current |
|             | File number UL | E174191                 |

## Mechanical data

|            |      |                     |
|------------|------|---------------------|
| Weight     | [g]  | 20.5                |
| Housing    |      | rectangular         |
| Mounting   |      | non-flush mountable |
| Dimensions | [mm] | 40 x 12 x 26        |
| Materials  |      | housing: PBT        |

## Fixing 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. |
|---------------|--|--------|

## Electrical connection - plug

Connector: 1 x M8; coding: A; Contacts: 3



## Connection

