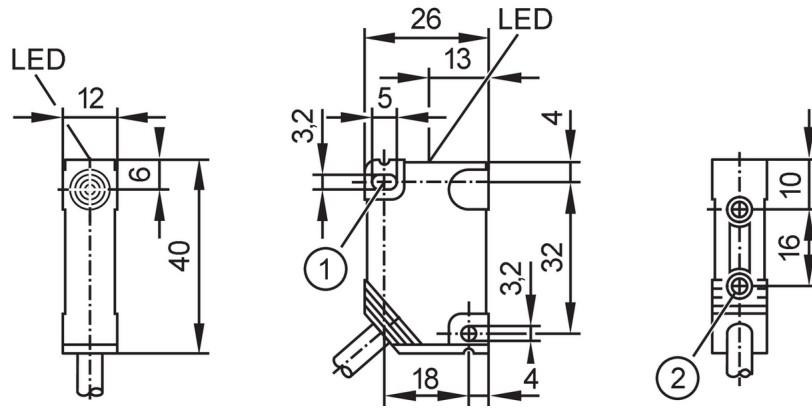


# IN5133



## Inductive sensor

IN-3004-ANKG



- 1 mounting hole  
2 threaded bush M3 Depth 5.8 mm



## Product characteristics

|                    |               |
|--------------------|---------------|
| Electrical design  | NPN           |
| 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            |      | II         |
| Reverse polarity protection |      | yes        |

## Outputs

|                                                      |                    |
|------------------------------------------------------|--------------------|
| Electrical design                                    | NPN                |
| 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                     | yes (non-latching) |
| Overload protection                                  | yes                |

### Monitoring range

|                       |      |          |
|-----------------------|------|----------|
| Sensing range         | [mm] | 4        |
| Real sensing range Sr | [mm] | 4 ± 10 % |
| Operating distance    | [mm] | 0...3.25 |

### Accuracy / deviations

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

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

Operating conditions

|                     |      |          |
|---------------------|------|----------|
| Ambient temperature | [°C] | -25...80 |
| Protection          |      | IP 67    |

Tests / approvals

|      |              |         |
|------|--------------|---------|
| EMC  | EN 60947-5-2 |         |
|      | EN 55011     | class B |
| MTTF | [years]      | 1781    |

Mechanical data

|            |      |                     |
|------------|------|---------------------|
| Weight     | [g]  | 112.9               |
| Housing    |      | rectangular         |
| Mounting   |      | non-flush mountable |
| Dimensions | [mm] | 40 x 12 x 26        |
| Material   |      | housing: 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 |
|---------|------------------|-----------------|

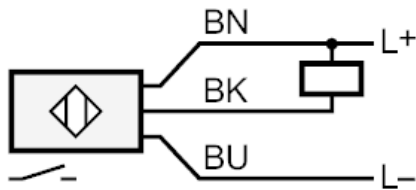
Remarks

|               |  |        |
|---------------|--|--------|
| Pack quantity |  | 1 pcs. |
|---------------|--|--------|

Electrical connection

Cable: 2 m, PVC; 3 x 0.5 mm²

Connection



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