



## Inductive sensor

IB-3020-APKG



## Product characteristics

|                    |                 |
|--------------------|-----------------|
| Electrical design  | PNP             |
| Output function    | normally closed |
| Sensing range [mm] | 20              |
| Housing            | tubular         |
| Dimensions [mm]    | Ø 34 / L = 82   |

## Electrical data

|                             |            |
|-----------------------------|------------|
| Operating voltage [V]       | 10...36 DC |
| Current consumption [mA]    | 15; (24 V) |
| Protection class            | II         |
| Reverse polarity protection | yes        |

## Outputs

|                                                      |                    |
|------------------------------------------------------|--------------------|
| Electrical design                                    | PNP                |
| Output function                                      | normally closed    |
| Max. voltage drop switching output DC [V]            | 2.5                |
| Permanent current rating of switching output DC [mA] | 250                |
| Switching frequency DC [Hz]                          | 60                 |
| Short-circuit protection                             | yes                |
| Type of short-circuit protection                     | yes (non-latching) |
| Overload protection                                  | yes                |

## Monitoring range

|                               |                |
|-------------------------------|----------------|
| Sensing range [mm]            | 20             |
| Real sensing range $S_r$ [mm] | $20 \pm 10 \%$ |
| Operating distance [mm]       | 0...16.2       |

## Accuracy / deviations

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

# IB5068



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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 |      |
| MTTF | [years]      | 1844 |

### Mechanical data

|            |      |                     |
|------------|------|---------------------|
| Weight     | [g]  | 268                 |
| Housing    |      | tubular             |
| Mounting   |      | non-flush mountable |
| Dimensions | [mm] | Ø 34 / L = 82       |
| Material   |      | PBT                 |

### Displays / operating elements

|         |                  |                 |
|---------|------------------|-----------------|
| Display | Switching status | 1 x LED, yellow |
|---------|------------------|-----------------|

### Accessories

|                |                   |
|----------------|-------------------|
| Items supplied | Mounting clamp: 1 |
|----------------|-------------------|

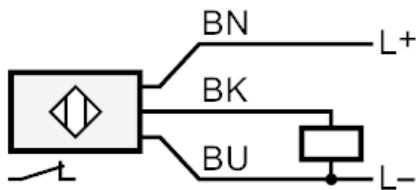
### Remarks

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

### Electrical connection

Cable: 2 m, PVC; 3 x 0.5 mm²

### Connection



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