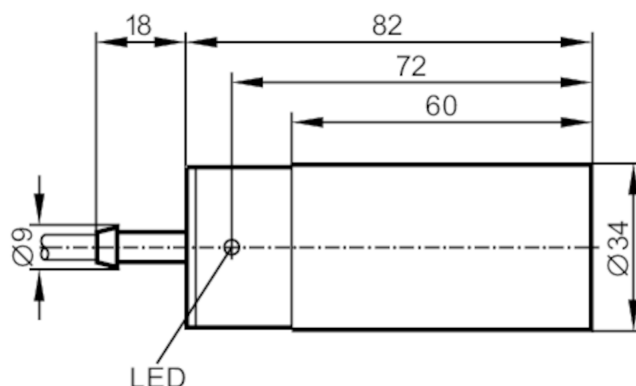




## Inductive sensor

IB-3020-BNKG/10M

Article no longer available - archive entry



## Product characteristics

|                   |      |                 |
|-------------------|------|-----------------|
| Electrical design |      | NPN             |
| 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                               |      | NPN                |
| 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 Sr | [mm] | 20 ± 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 |
|-------------------|--|----------------------------------------------------------------------------|

# IB5078



## Inductive sensor

IB-3020-BNKG/10M

|                    |           |          |
|--------------------|-----------|----------|
| Hysteresis         | [% of Sr] | 1...15   |
| 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 |

### Mechanical data

|            |      |                     |
|------------|------|---------------------|
| 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 |
|----------------|--|-------------------|

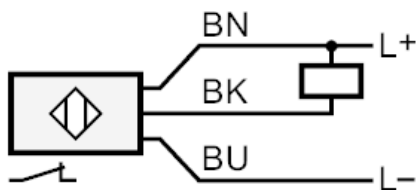
### Remarks

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

### Electrical connection

Cable: 10 m, PVC; 3 x 0.5 mm<sup>2</sup>

### Connection



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