



## Inductive sensor

IB-3020-BPOG/20m

Article no longer available - archive entry



### Product characteristics

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

### Electrical data

|                             |            |
|-----------------------------|------------|
| Operating voltage [V]       | 10...30 DC |
| Current consumption [mA]    | 7; (24 V)  |
| Protection class            | II         |
| Reverse polarity protection | yes        |

### Outputs

|                                                      |                    |
|------------------------------------------------------|--------------------|
| Electrical design                                    | PNP                |
| Output function                                      | normally open      |
| Max. voltage drop switching output DC [V]            | 1.5                |
| Permanent current rating of switching output DC [mA] | 200                |
| Switching frequency DC [Hz]                          | 40                 |
| 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: 0.4 / copper: 0.3 |
| Hysteresis [% of Sr]         | 1...15                                                                     |
| Switch-point drift [% of Sr] | -10...10                                                                   |

### Operating conditions

|                          |          |
|--------------------------|----------|
| Ambient temperature [°C] | -25...80 |
|--------------------------|----------|

# IB5020



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

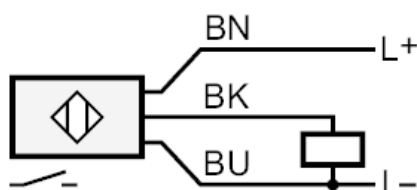
### Remarks

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

### Electrical connection

Cable: 20 m, PVC; 3 x 0.5 mm<sup>2</sup>

#### Connection



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