

# IB5070



## Inductive sensor

IB-3020-APKG/10M



### 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 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 |
| 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 |
|-----|--------------|

|      |         |      |
|------|---------|------|
| MTTF | [years] | 1844 |
|------|---------|------|

### Mechanical data

|        |     |     |
|--------|-----|-----|
| Weight | [g] | 609 |
|--------|-----|-----|

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

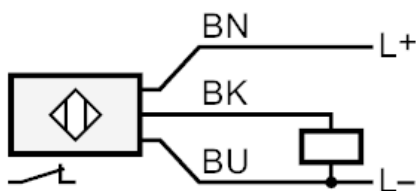
### Remarks

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

### Electrical connection

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

### Connection



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