

## Inductive sensor

IS-2002-FROG/6M

Article no longer available - archive entry



## Product characteristics

|                    |                                               |
|--------------------|-----------------------------------------------|
| Electrical design  | PNP/NPN                                       |
| Output function    | normally open / normally closed; (selectable) |
| Sensing range [mm] | 2                                             |
| Housing            | rectangular                                   |
| Dimensions [mm]    | 28 x 10 x 16                                  |

## Electrical data

|                             |           |
|-----------------------------|-----------|
| Operating voltage [V]       | 5...36 DC |
| Protection class            | III       |
| Reverse polarity protection | no        |

## Outputs

|                                                      |                                               |
|------------------------------------------------------|-----------------------------------------------|
| Electrical design                                    | PNP/NPN                                       |
| Output function                                      | normally open / normally closed; (selectable) |
| Max. voltage drop switching output DC [V]            | 4.6                                           |
| Minimum load current [mA]                            | 4                                             |
| Max. leakage current [mA]                            | 0.8                                           |
| Permanent current rating of switching output DC [mA] | 200                                           |
| Switching frequency DC [Hz]                          | 2000                                          |
| Short-circuit protection                             | no                                            |
| Overload protection                                  | no                                            |

## Detection zone

|                               |               |
|-------------------------------|---------------|
| Sensing range [mm]            | 2             |
| Real sensing range $S_r$ [mm] | $2 \pm 10 \%$ |
| Operating distance [mm]       | 0...1.62      |

# IS5030



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### Accuracy / deviations

|                    |                                                                             |          |
|--------------------|-----------------------------------------------------------------------------|----------|
| Correction factor  | steel: 1 / stainless steel: 0.7 / brass: 0.4 / aluminium: 0.3 / copper: 0.2 |          |
| Hysteresis         | [X01]                                                                       | 1...15   |
| Switch point drift | [X01]                                                                       | -10...10 |

### Operating conditions

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

### Tests / approvals

|      |              |         |
|------|--------------|---------|
| EMC  | EN 60947-5-2 |         |
|      | EN 55011     | class B |
| MTTF | [ANN]        | 2460    |

### Mechanical data

|                   |      |                      |
|-------------------|------|----------------------|
| Housing           |      | rectangular          |
| Mounting          |      | flush mountable      |
| Dimensions        | [mm] | 28 x 10 x 16         |
| Materials         |      | PBT                  |
| Tightening torque | [Nm] | < 0.5; (with washer) |

### Displays / operating elements

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

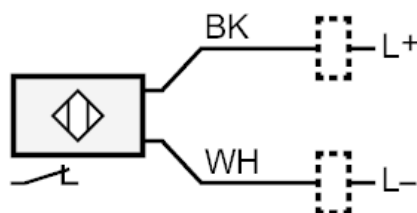
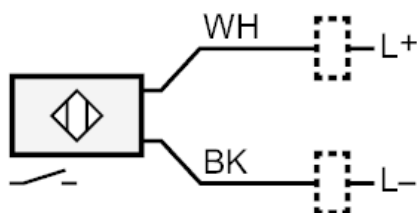
### Remarks

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

### Electrical connection

Cable: 6 m, PUR / PVC; 2 x 0.14 mm<sup>2</sup>

### Connection



BK =  
WH =

Core colours :  
black  
white