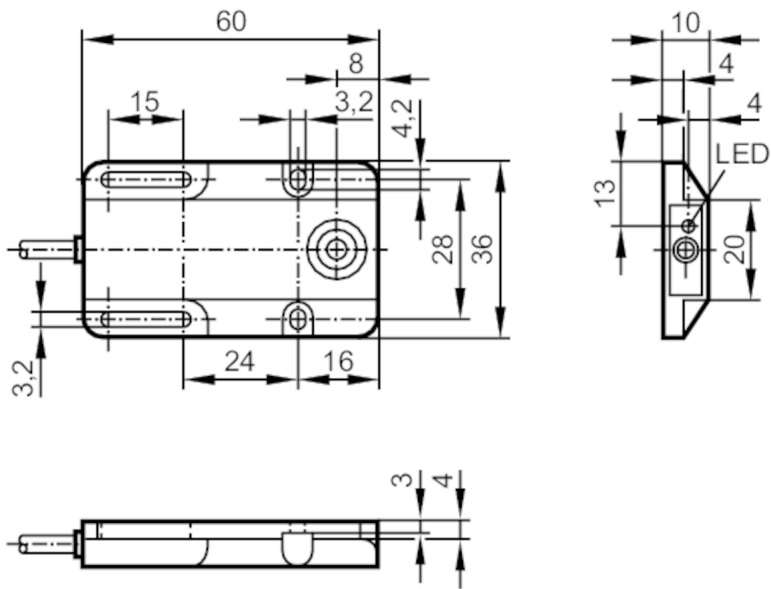


# IW5051



## Inductive sensor

IW-3005-BPKG



| Product characteristics                         |      |                    |
|-------------------------------------------------|------|--------------------|
| Electrical design                               |      | PNP                |
| Output function                                 |      | normally open      |
| Sensing range                                   | [mm] | 5                  |
| Housing                                         |      | rectangular        |
| Dimensions                                      | [mm] | 60 x 36 x 10       |
| 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 open      |
| Max. voltage drop switching output DC           | [V]  | 2.5                |
| Permanent current rating of switching output DC | [mA] | 250                |
| Switching frequency DC                          | [Hz] | 400                |
| Short-circuit protection                        |      | yes                |
| Type of short-circuit protection                |      | yes (non-latching) |
| Overload protection                             |      | yes                |
| Monitoring range                                |      |                    |
| Sensing range                                   | [mm] | 5                  |

# IW5051



## Inductive sensor

IW-3005-BPKG

|                       |      |          |
|-----------------------|------|----------|
| Real sensing range Sr | [mm] | 5 ± 10 % |
| Operating distance    | [mm] | 0...4.05 |

### Accuracy / deviations

|                    |                                                                            |          |
|--------------------|----------------------------------------------------------------------------|----------|
| Correction factor  | steel: 1 / stainless steel: 0.7 / brass: 0.4 / aluminum: 0.3 / copper: 0.2 |          |
| 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 |      |
| MTTF | [years]      | 1896 |

### Mechanical data

|            |      |                 |
|------------|------|-----------------|
| Weight     | [g]  | 58.7            |
| Housing    |      | rectangular     |
| Mounting   |      | flush mountable |
| Dimensions | [mm] | 60 x 36 x 10    |
| Material   |      | PBT             |

### Displays / operating elements

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

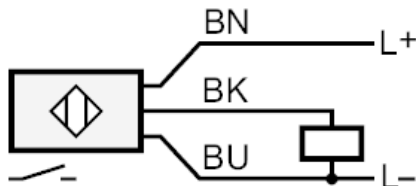
### Remarks

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

### Electrical connection

Cable: 2 m, PVC; 3 x 0.14 mm<sup>2</sup>

### Connection



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