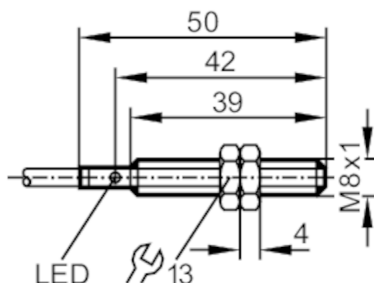


# IE5130

## Inductive sensor

IE-3001-APKG



### Product characteristics

|                    |                 |
|--------------------|-----------------|
| Electrical design  | PNP             |
| Output function    | normally closed |
| Sensing range [mm] | 1               |
| Housing            | threaded type   |
| Dimensions [mm]    | M8 x 1 / L = 50 |

### Electrical data

|                             |            |
|-----------------------------|------------|
| Operating voltage [V]       | 10...36 DC |
| Current consumption [mA]    | 15; (24 V) |
| Protection class            | III        |
| 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] | 200             |
| Switching frequency DC [Hz]                          | 1000            |
| Short-circuit protection                             | yes             |
| Overload protection                                  | yes             |

### Detection zone

|                               |              |
|-------------------------------|--------------|
| Sensing range [mm]            | 1            |
| Real sensing range $S_r$ [mm] | $1 \pm 10\%$ |
| Operating distance [mm]       | 0...0.8      |

### Accuracy / deviations

|                              |                                                                             |
|------------------------------|-----------------------------------------------------------------------------|
| Correction factor            | steel: 1 / stainless steel: 0.7 / brass: 0.4 / aluminium: 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    |

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## Inductive sensor

IE-3001-APKG

| Tests / approvals |                           |                   |
|-------------------|---------------------------|-------------------|
| EMC               | EN 61000-4-2 ESD          | 4 kV CD / 8 kV AD |
|                   | EN 61000-4-3 HF radiated  | 3 V/m             |
|                   | EN 61000-4-4 Burst        | 2 kV              |
|                   | EN 61000-4-6 HF conducted | 3 V               |
|                   | EN 55011                  | class B           |
| MTTF              | [years]                   | 2737              |

| Mechanical data    |      |                 |
|--------------------|------|-----------------|
| Weight             | [g]  | 42.5            |
| Housing            |      | threaded type   |
| Mounting           |      | flush mountable |
| Dimensions         | [mm] | M8 x 1 / L = 50 |
| Thread designation |      | M8 x 1          |
| Materials          |      | PBT             |
| Tightening torque  | [Nm] | 0.25            |

| Displays / operating elements |                  |                 |
|-------------------------------|------------------|-----------------|
| Display                       | switching status | 1 x LED, yellow |

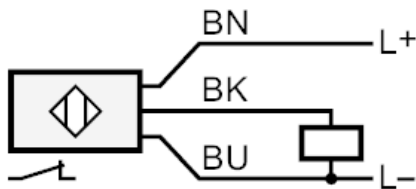
| Accessories    |  |              |
|----------------|--|--------------|
| Items supplied |  | lock nuts: 2 |

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

| Electrical connection |  |  |
|-----------------------|--|--|
|-----------------------|--|--|

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

| Connection |  |  |
|------------|--|--|
|------------|--|--|



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