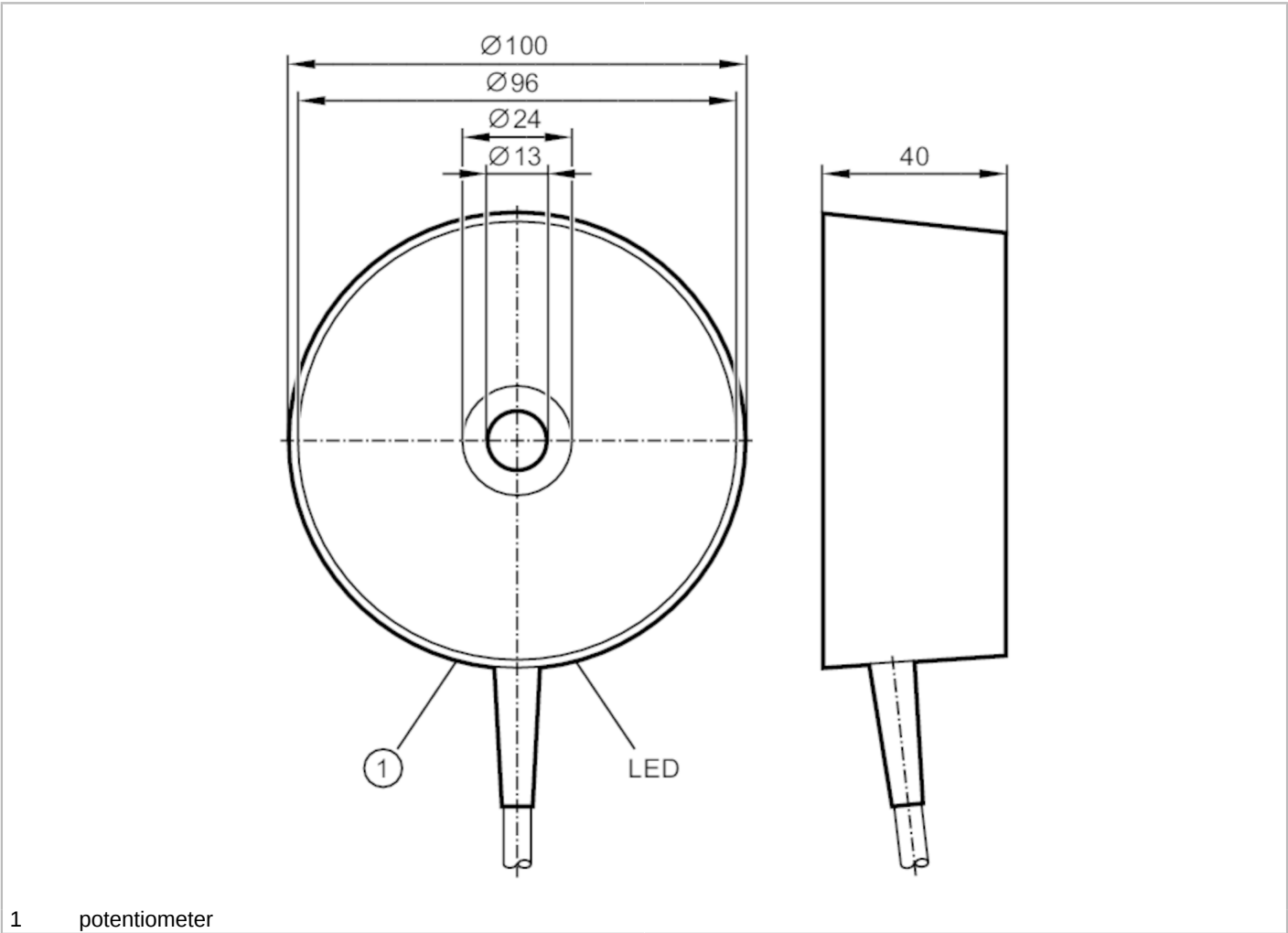




Inductive area sensor

SIT-2070-BBOW



1 potentiometer



| Product characteristics               |      |                 |
|---------------------------------------|------|-----------------|
| Output function                       |      | normally closed |
| Sensing range                         | [mm] | 20...70         |
| Housing                               |      | cylindrical     |
| Dimensions                            | [mm] | Ø 100 / L = 40  |
| Electrical data                       |      |                 |
| Frequency AC                          | [Hz] | 47...63         |
| Operating voltage                     | [V]  | 90...250 AC     |
| Protection class                      |      | II              |
| Reverse polarity protection           |      | no              |
| Outputs                               |      |                 |
| Output function                       |      | normally closed |
| Max. voltage drop switching output AC | [V]  | 11              |
| Minimum load current                  | [mA] | 15              |
| Max. leakage current                  | [mA] | 6               |



## Inductive area sensor

SIT-2070-BBOW

|                                                 |      |                        |
|-------------------------------------------------|------|------------------------|
| Permanent current rating of switching output AC | [mA] | 200; (250 (...50 °C))  |
| Short-time current rating of switching output   | [mA] | 1500; (10 ms / 0,5 Hz) |
| Switching frequency AC                          | [Hz] | 5                      |
| Short-circuit proof                             |      | no                     |
| Overload protection                             |      | no                     |

## Detection zone

|                               |      |           |
|-------------------------------|------|-----------|
| Sensing range                 | [mm] | 20...70   |
| Sensing range adjustable      |      | yes       |
| Factory setting sensing range | [mm] | 70        |
| Real sensing range Sr         | [mm] | 70 ± 10 % |

## Accuracy / deviations

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

## Operating conditions

|                     |      |          |
|---------------------|------|----------|
| Ambient temperature | [°C] | -20...70 |
| Protection          |      | IP 65    |

## Tests / approvals

|     |              |         |
|-----|--------------|---------|
| EMC | EN 60947-5-2 |         |
|     | EN 55011     | class B |

## Mechanical data

|            |      |                     |
|------------|------|---------------------|
| Weight     | [g]  | 509.8               |
| Housing    |      | cylindrical         |
| Mounting   |      | non-flush mountable |
| Dimensions | [mm] | Ø 100 / L = 40      |
| Materials  |      | PBT                 |

## Displays / operating elements

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

## Electrical connection

|                     |  |                                                          |
|---------------------|--|----------------------------------------------------------|
| Required protection |  | miniature fuse to IEC60127-2 sheet 1; ≤ 2 A; fast acting |
|---------------------|--|----------------------------------------------------------|

## Remarks

|               |  |                                                                               |
|---------------|--|-------------------------------------------------------------------------------|
| Remarks       |  | Recommendation: Check the safe functioning of the unit after a short circuit. |
| Pack quantity |  | 1 pcs.                                                                        |

# I12002



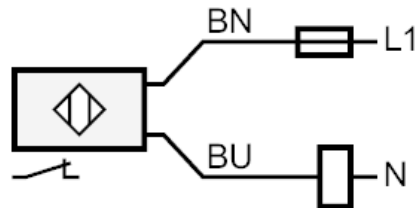
## Inductive area sensor

SIT-2070-BBOW

### Electrical connection

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

### Connection



Note miniature fuse to IEC60127-2 sheet 1  $\leq$  2 A fast acting  
Core colours :

BN =

brown

BU =

blue