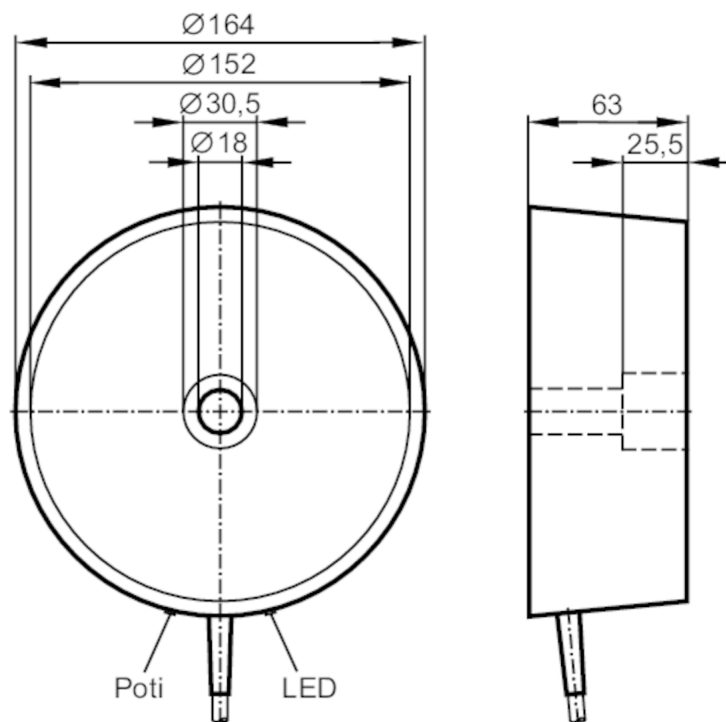


## Inductive area sensor

SIY-2120-BBOW



## Product characteristics

|                 |      |                 |
|-----------------|------|-----------------|
| Output function |      | normally closed |
| Sensing range   | [mm] | 30...120        |
| Housing         |      | tubular         |
| Dimensions      | [mm] | Ø 164 / L = 63  |

## 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                      |
| 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] | 3                      |
| Short-circuit proof                             |      | no                     |



## Inductive area sensor

SIY-2120-BBOW

|                                    |                                                                             |                 |
|------------------------------------|-----------------------------------------------------------------------------|-----------------|
| Overload protection                | no                                                                          |                 |
| Monitoring range                   |                                                                             |                 |
| Sensing range [mm]                 | 30...120                                                                    |                 |
| Sensing range adjustable           | yes                                                                         |                 |
| Factory setting sensing range [mm] | 120                                                                         |                 |
| Real sensing range Sr [mm]         | 120 ± 10 %                                                                  |                 |
| Accuracy / deviations              |                                                                             |                 |
| Correction factor                  | steel: 1 / stainless steel: 0.7 / brass: 0.4 / aluminum: 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                                                                |                 |
| Mechanical data                    |                                                                             |                 |
| Weight [g]                         | 1231                                                                        |                 |
| Housing                            | tubular                                                                     |                 |
| Mounting                           | non-flush mountable                                                         |                 |
| Dimensions [mm]                    | Ø 164 / L = 63                                                              |                 |
| Material                           | housing: PBT; bottom cover: aluminum                                        |                 |
| 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 unit for reliable function after a short circuit. |                 |
| Pack quantity                      | 1 pcs.                                                                      |                 |

# I22002



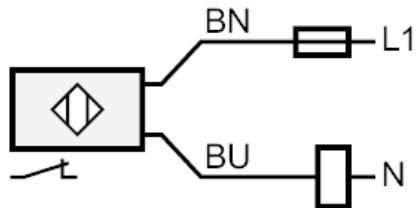
## Inductive area sensor

SIY-2120-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 colors :

BN =

brown

BU =

blue