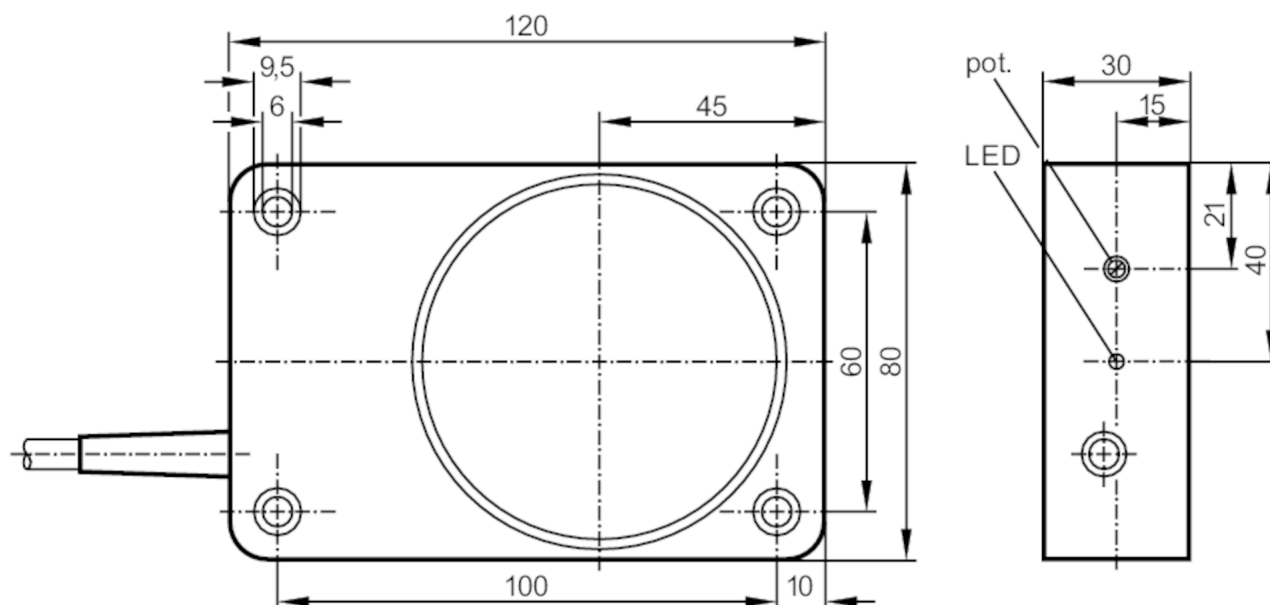


## Inductive sensor

ID-2050-ABOA/PPU

Article no longer available - archive entry



## Product characteristics

|                 |      |               |
|-----------------|------|---------------|
| Output function |      | normally open |
| Sensing range   | [mm] | 50            |
| Housing         |      | rectangular   |
| Dimensions      | [mm] | 120 x 80 x 30 |

## Electrical data

|                             |     |                |
|-----------------------------|-----|----------------|
| Operating voltage           | [V] | 20...250 AC/DC |
| Protection class            |     | II             |
| Reverse polarity protection |     | no             |

## Outputs

|                                                 |      |                                                 |
|-------------------------------------------------|------|-------------------------------------------------|
| Output function                                 |      | normally open                                   |
| Max. voltage drop switching output DC           | [V]  | 5                                               |
| Max. voltage drop switching output AC           | [V]  | 5.5                                             |
| Minimum load current                            | [mA] | 5                                               |
| Max. leakage current                            | [mA] | 2.5 (250 V AC) / 1.3 (110 V AC) / 0.8 (24 V DC) |
| Permanent current rating of switching output AC | [mA] | 250; (350 (...50 °C))                           |
| Permanent current rating of switching output DC | [mA] | 100                                             |
| Short-time current rating of switching output   | [mA] | 2200; (20 ms / 0,5 Hz)                          |
| Switching frequency AC                          | [Hz] | 25                                              |
| Switching frequency DC                          | [Hz] | 35                                              |



## Inductive sensor

ID-2050-ABOA/PPU

|                                      |                                                                               |
|--------------------------------------|-------------------------------------------------------------------------------|
| Short-circuit proof                  | no                                                                            |
| Overload protection                  | no                                                                            |
| <b>Detection zone</b>                |                                                                               |
| Sensing range [mm]                   | 50                                                                            |
| Sensing range adjustable             | yes                                                                           |
| Factory setting sensing range [mm]   | 50                                                                            |
| Real sensing range Sr [mm]           | 50 ± 10 %                                                                     |
| Operating distance [mm]              | 0...40.5                                                                      |
| <b>Accuracy / deviations</b>         |                                                                               |
| 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                                                                      |
| <b>Operating conditions</b>          |                                                                               |
| Ambient temperature [°C]             | -25...80                                                                      |
| Protection                           | IP 65                                                                         |
| <b>Tests / approvals</b>             |                                                                               |
| EMC                                  | EN 60947-5-2                                                                  |
|                                      | EN 55011 class B                                                              |
| MTTF [ANN]                           | 512                                                                           |
| <b>Mechanical data</b>               |                                                                               |
| Housing                              | rectangular                                                                   |
| Mounting                             | non-flush mountable                                                           |
| Dimensions [mm]                      | 120 x 80 x 30                                                                 |
| Materials                            | PPE modified                                                                  |
| <b>Displays / operating elements</b> |                                                                               |
| Display                              | switching status 1 x LED, yellow                                              |
| <b>Electrical connection</b>         |                                                                               |
| Required protection                  | miniature fuse to IEC60127-2 sheet 1; ≤ 2 A; fast acting                      |
| <b>Аксессуары</b>                    |                                                                               |
| Items supplied                       | screwdriver: 1                                                                |
| <b>Remarks</b>                       |                                                                               |
| Remarks                              | Recommendation: Check the safe functioning of the unit after a short circuit. |
| Pack quantity                        | 1 pcs.                                                                        |



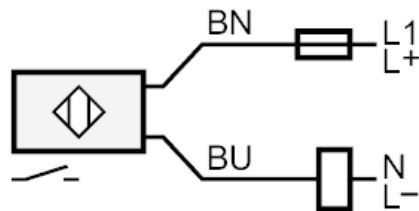
## Inductive sensor

ID-2050-ABOA/PPU

### Electrical connection

Cable: 2 m, PUR / 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