

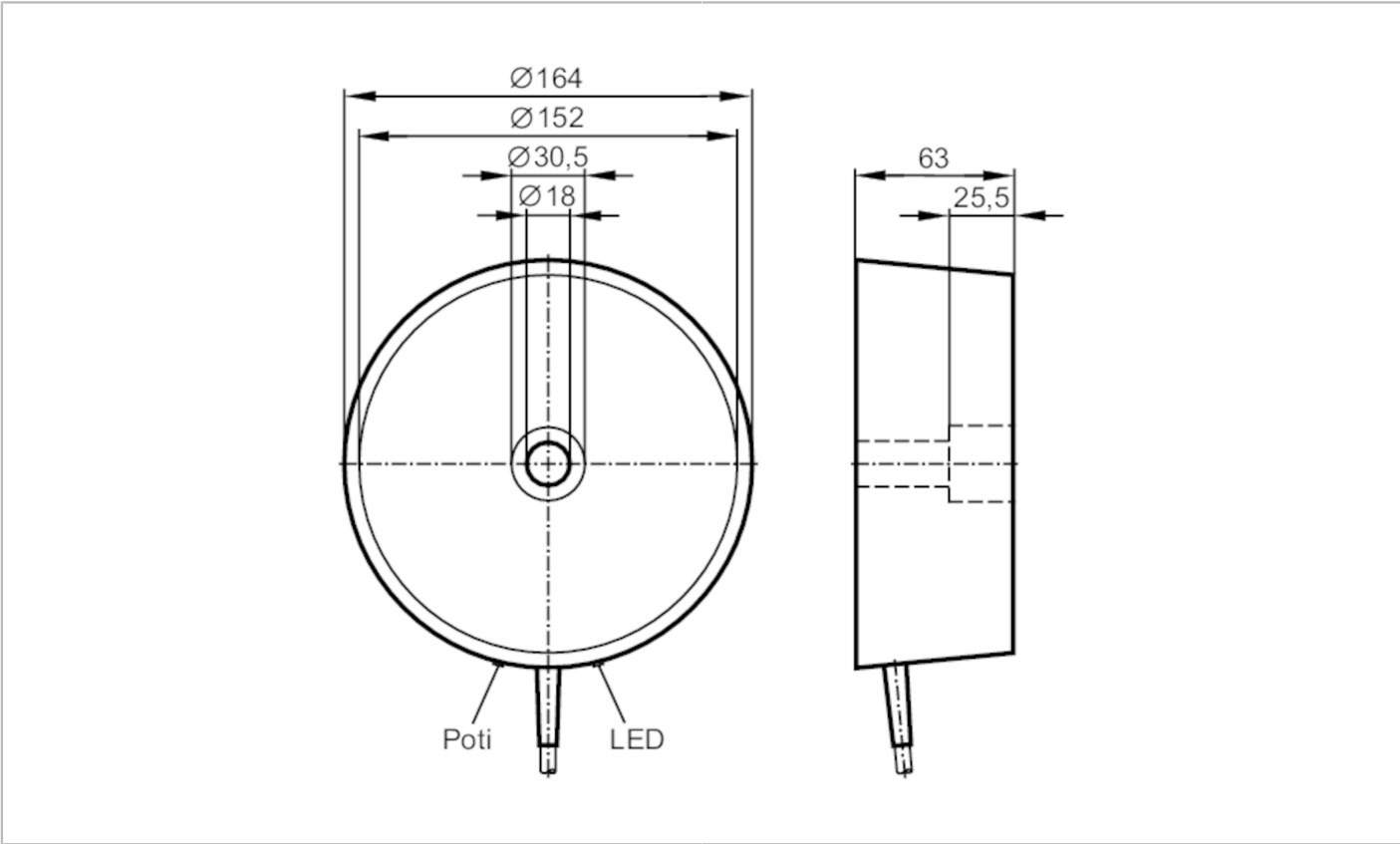


Inductive area sensor

I2-3120-BPOG

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Alternative articles: I27001  
When selecting an alternative article and accessories please note that technical data may differ!



| Product characteristics               |      |               |
|---------------------------------------|------|---------------|
| Electrical design                     |      | PNP           |
| Output function                       |      | normally open |
| Sensing range                         | [mm] | 30...120      |
| Housing                               |      | tubular       |
| Dimensions                            | [mm] | Ø 164         |
| 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           |



## Inductive area sensor

I2-3120-BPOG

|                                                 |                  |                                                                            |
|-------------------------------------------------|------------------|----------------------------------------------------------------------------|
| Permanent current rating of switching output DC | [mA]             | 250                                                                        |
| Switching frequency DC                          | [Hz]             | 3                                                                          |
| Short-circuit protection                        |                  | yes                                                                        |
| Type of short-circuit protection                |                  | yes (non-latching)                                                         |
| Overload protection                             |                  | yes                                                                        |
| <b>Monitoring range</b>                         |                  |                                                                            |
| Sensing range                                   | [mm]             | 30...120                                                                   |
| Sensing range adjustable                        |                  | yes                                                                        |
| Factory setting sensing range                   | [mm]             | 120                                                                        |
| Real sensing range Sr                           | [mm]             | 120 ± 10 %                                                                 |
| <b>Accuracy / deviations</b>                    |                  |                                                                            |
| 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                                                                   |
| <b>Operating conditions</b>                     |                  |                                                                            |
| Ambient temperature                             | [°C]             | -20...70                                                                   |
| Protection                                      |                  | IP 65                                                                      |
| <b>Tests / approvals</b>                        |                  |                                                                            |
| EMC                                             | EN 60947-5-2     |                                                                            |
| <b>Mechanical data</b>                          |                  |                                                                            |
| Housing                                         |                  | tubular                                                                    |
| Mounting                                        |                  | non-flush mountable                                                        |
| Dimensions                                      | [mm]             | Ø 164                                                                      |
| Material                                        |                  | housing: PBT; bottom cover: aluminum                                       |
| <b>Displays / operating elements</b>            |                  |                                                                            |
| Display                                         | Switching status | 1 x LED, yellow                                                            |
| <b>Accessories</b>                              |                  |                                                                            |
| Items supplied                                  |                  | screws: 1 x M16 x 90                                                       |
| <b>Remarks</b>                                  |                  |                                                                            |
| Pack quantity                                   |                  | 1 pcs.                                                                     |

# I25001



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### Electrical connection

Cable: 2 m, PVC; 3 x 0.5 mm<sup>2</sup>

### Connection



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