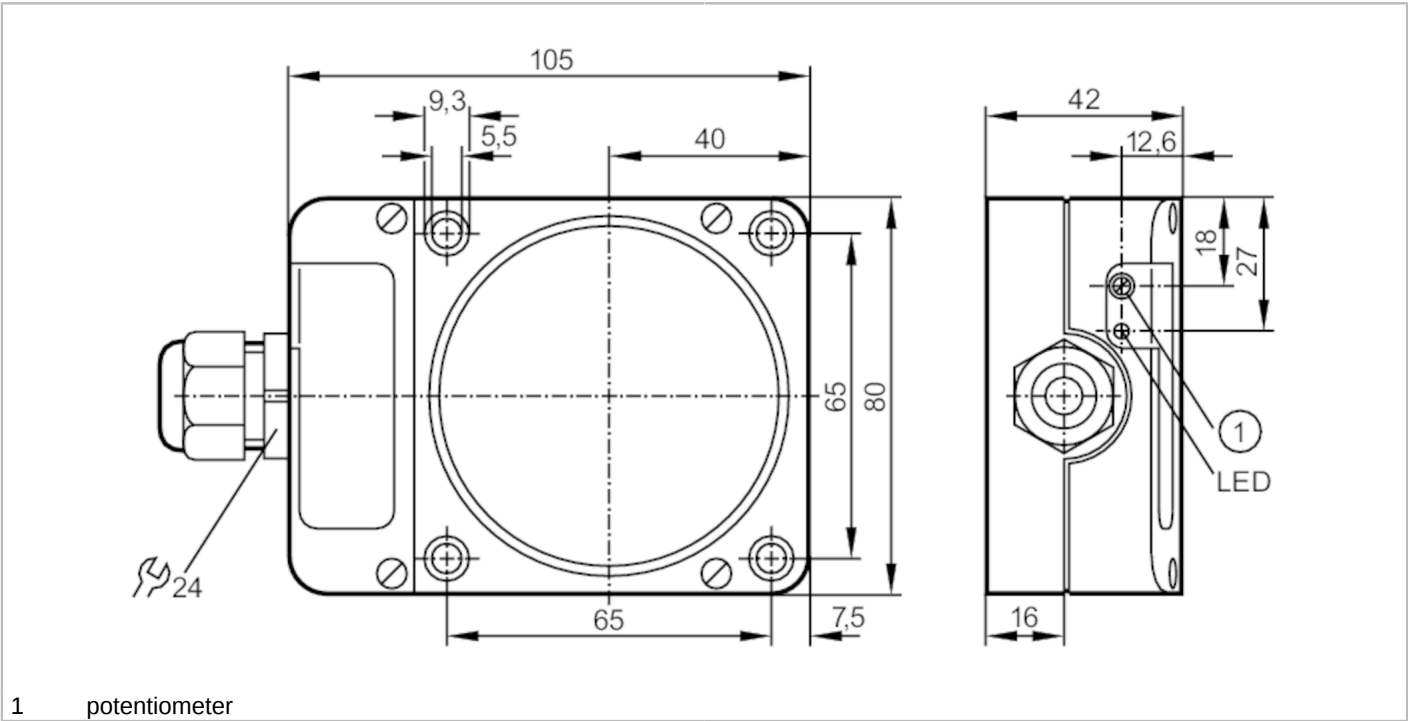


# ID502A



## Inductive sensor

IDE3060-FPKG/3D



| Product characteristics                         |      |                                               |
|-------------------------------------------------|------|-----------------------------------------------|
| Electrical design                               |      | PNP                                           |
| Output function                                 |      | normally open / normally closed; (selectable) |
| Sensing range                                   | [mm] | 60                                            |
| Housing                                         |      | rectangular                                   |
| Dimensions                                      | [mm] | 105 x 80 x 42                                 |
| Electrical data                                 |      |                                               |
| Operating voltage                               | [V]  | 10...30 DC                                    |
| Current consumption                             | [mA] | 15; (24 V)                                    |
| Protection class                                |      | III                                           |
| Reverse polarity protection                     |      | yes                                           |
| Outputs                                         |      |                                               |
| Electrical design                               |      | PNP                                           |
| Output function                                 |      | normally open / normally closed; (selectable) |
| Max. voltage drop switching output DC           | [V]  | 2.5                                           |
| Permanent current rating of switching output DC | [mA] | 200                                           |
| Short-time current rating of switching output   | [mA] | 200                                           |
| Switching frequency DC                          | [Hz] | 100                                           |
| Short-circuit protection                        |      | yes                                           |
| Type of short-circuit protection                |      | pulsed                                        |
| Overload protection                             |      | yes                                           |

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## Inductive sensor

IDE3060-FPKG/3D

### Detection zone

|                       |      |           |
|-----------------------|------|-----------|
| Sensing range         | [mm] | 60        |
| Real sensing range Sr | [mm] | 60 ± 10 % |
| Operating distance    | [mm] | 0...48.6  |

### 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] | -20...60 |
| Protection          |      | IP 65    |

### Tests / approvals

|              |         |                                                                                                                    |
|--------------|---------|--------------------------------------------------------------------------------------------------------------------|
| ATEX marking |         |  II 3D Ex tc IIIC T90°C Dc X IP65 |
| EMC          |         | EN 60947-5-2                                                                                                       |
| MTTF         | [years] | 993                                                                                                                |

### Mechanical data

|                   |      |                                      |
|-------------------|------|--------------------------------------|
| Weight            | [g]  | 504.5                                |
| Housing           |      | rectangular                          |
| Mounting          |      | non-flush mountable                  |
| Dimensions        | [mm] | 105 x 80 x 42                        |
| Materials         |      | PPE modified; PA                     |
| Tightening torque | [Nm] | housing screws: 0,9 Nm; screws: 4 Nm |

### Displays / operating elements

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

### Accessories

|                |  |                |
|----------------|--|----------------|
| Items supplied |  | screwdriver: 1 |
|----------------|--|----------------|

### Remarks

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

### Electrical connection

terminals: 0.34...2.5 mm<sup>2</sup>; Cable sheath: Ø 5...9 mm; Cable gland: M20 X 1.5

### Connection

