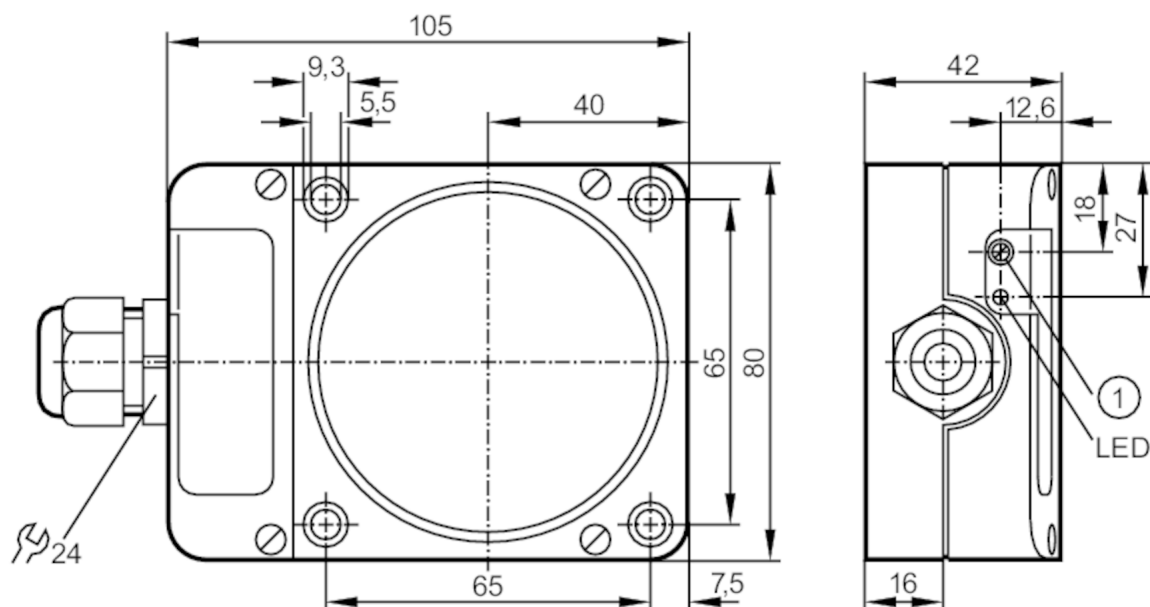


# ID503A



## Inductive sensor

IDE3060-FPKG/2D



1 potentiometer



### Electrical data

|                             |      |            |
|-----------------------------|------|------------|
| Operating voltage           | [V]  | 10...30 DC |
| Current consumption         | [mA] | < 15       |
| 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] | 40                                            |
| Short-time current rating of switching output   | [mA] | 40                                            |
| Switching frequency DC                          | [Hz] | 100                                           |
| Short-circuit protection                        |      | yes                                           |
| Type of short-circuit protection                |      | pulsed                                        |
| Overload protection                             |      | yes                                           |

### Detection zone

|                               |      |                |
|-------------------------------|------|----------------|
| Sensing range                 | [mm] | 60             |
| Sensing range adjustable      |      | yes            |
| Factory setting sensing range | [mm] | 60             |
| Real sensing range $S_r$      | [mm] | $60 \pm 10 \%$ |
| Operating distance            | [mm] | 0...48         |



## Inductive sensor

IDE3060-FPKG/2D

| 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                                                           |           |                                                                                                                  |
| Approval                                                                    |           | BVS 12 ATEX E 125 X; IECEx BVS 12.0078 X                                                                         |
| ATEX marking                                                                |           |  II 2D Ex tb IIIC T90°C Db IP65 |
| EMC                                                                         |           | EN 60947-5-2                                                                                                     |
| MTTF                                                                        | [years]   | 993                                                                                                              |
| Mechanical data                                                             |           |                                                                                                                  |
| Weight                                                                      |           | [g] 502.8                                                                                                        |
| 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                                                                 |           |                                                                                                                  |
| Accessories (supplied)                                                      |           | screwdriver: 1                                                                                                   |
| Remarks                                                                     |           |                                                                                                                  |
| Pack quantity                                                               |           | 1 pcs.                                                                                                           |
| Electrical connection                                                       |           |                                                                                                                  |
| terminals: 0.34...2.5 mm²; Cable sheath: Ø 5...9 mm; Cable gland: M20 X 1.5 |           |                                                                                                                  |
| Connection                                                                  |           |                                                                                                                  |

