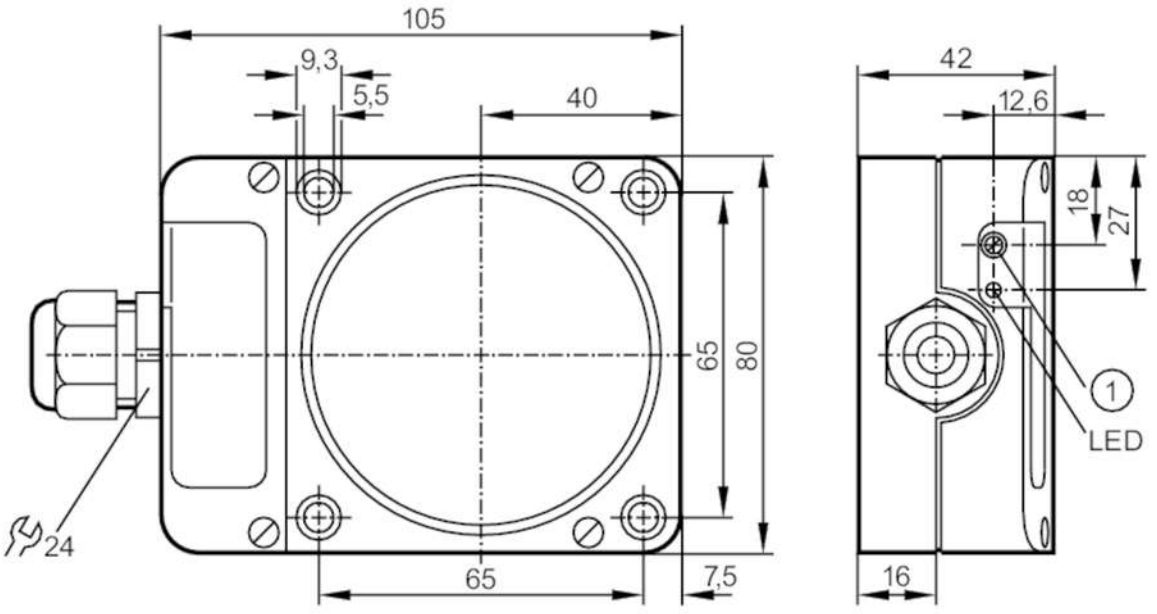
# ID002A

## Inductive sensor

IDE2060-FBOA/3D




1 potentiometer

CE

| | | |
|---|---|---|
| **Product characteristics** | | |
| 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] | 20...250 AC/DC |
| Protection class | | II |
| Reverse polarity protection | | no |
| **Outputs** | | |
| Output function | | normally open / normally closed; (selectable) |
| Max. voltage drop switching output DC | [V] | 6 |
| Max. voltage drop switching output AC | [V] | 6.5 |
| 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] | 200 |
| 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] | 4 |
| Switching frequency DC | [Hz] | 4 |
| Notes on switching frequency | [Hz] | only for resistive loads; 2 Hz for utilisation category AC-140 |

# ID002A

## Inductive sensor

IDE2060-FBOA/3D

| | | | |
|---|---|---|---|
| Short-circuit proof | | | no |
| Overload protection | | | no |
| **Detection zone** | | | |
| Sensing range | [mm] | | 60 |
| Sensing range adjustable | | | yes |
| Factory setting 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] | | 454 |
| **Mechanical data** | | | |
| Weight | [g] | | 510 |
| 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 |
| **Electrical connection** | | | |
| Required protection | | | miniature fuse to IEC60127-2 sheet 1; ≤ 2 A; fast acting; Place the fuse outside the hazardous area. |
| **Accessories** | | | |
| Items supplied | | | screwdriver: 1 |
| **Remarks** | | | |
| Remarks | | | Recommendation: Check the safe functioning of the unit after a short circuit. |
| Pack quantity | | | 1 pcs. |

# ID002A

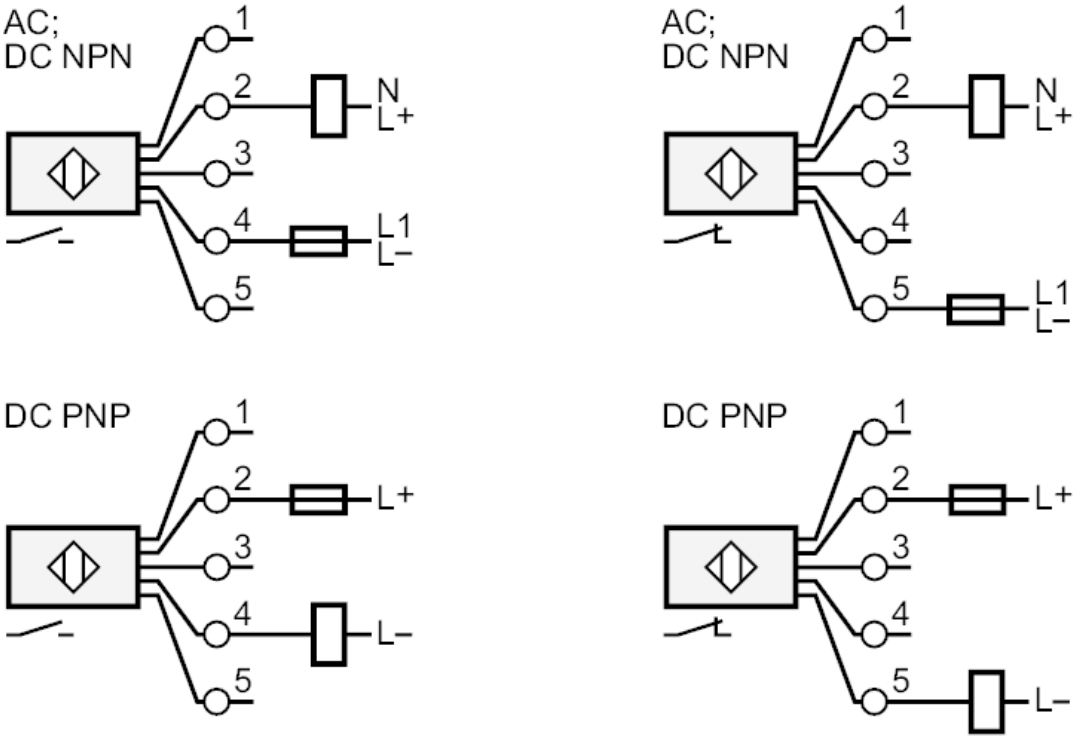
## Inductive sensor

IDE2060-FBOA/3D

## Electrical connection

terminals: 0.34...2.5 mm²; Cable sheath: Ø 5...9 mm; Cable gland: M20 X 1.5

### Connection




Note miniature fuse to IEC60127-2 sheet 1 ≤ 2 A fast acting
Place the fuse outside the hazardous area.