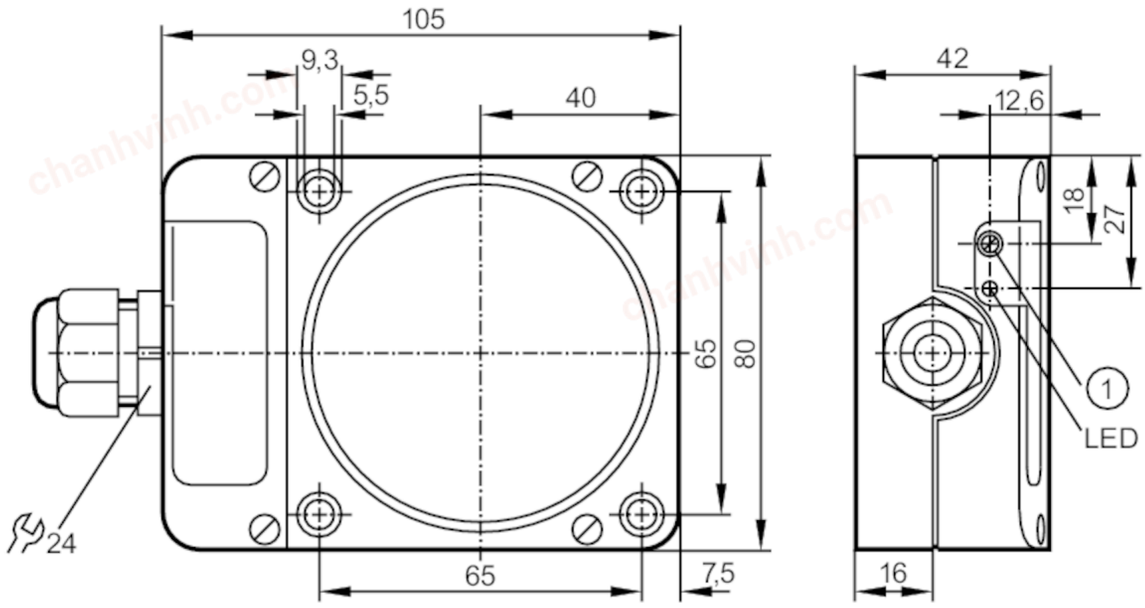
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# KD501A

## Capacitive sensor

KDE3060-FPKG/NI/3D




1 potentiometer

| | | |
|---|---|---|
| **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...36 DC |
| Current consumption | [mA] | < 15 |
| Protection class | | III |
| Reverse polarity protection | | yes |
| Measuring principle | | capacitive |
| **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 |
| Switching frequency DC | [Hz] | 10 |
| Short-circuit proof | | yes |
| Overload protection | | yes |
| **Detection zone** | | |
| Sensing range | [mm] | 60 |

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# KD501A

## Capacitive sensor

KDE3060-FPKG/NI/3D

| | | |
|---|---|---|
| Sensing range adjustable | | yes |
| Factory setting sensing range | [mm] | 60 |
| Real sensing range Sr | [mm] | 60 ± 10 % |
| **Accuracy / deviations** | | |
| Correction factor | | glass: 0.4 / water: 1 / ceramics: 0.2 / PVC: 0.2 |
| Hysteresis | [% of Sr] | 1...15 |
| Switch point drift | [% of Sr] | -15...15 |
| **Operating conditions** | | |
| Ambient temperature | [°C] | -20...60 |
| Protection | | IP 65 |
| Increased immunity | | yes |
| **Tests / approvals** | | |
| ATEX marking | | II 3D Ex tc IIIC T90°C Dc X IP65 |
| EMC | | EN 60947-5-2 |
| MTTF | [years] | 537 |
| **Mechanical data** | | |
| Weight | [g] | 279.5 |
| 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 |
| **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

