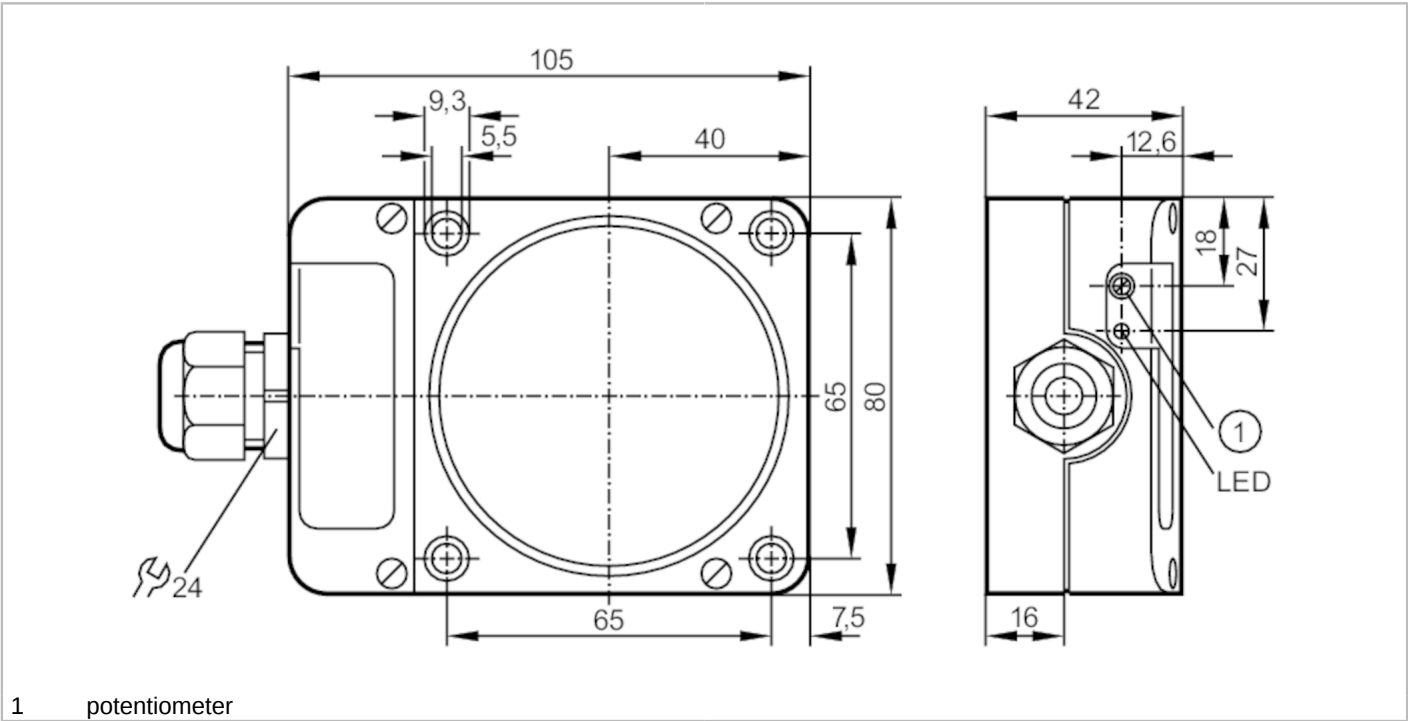


# KD501A



## Capacitive sensor

KDE3060-FPKG/NI/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...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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## 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 mm<sup>2</sup>; Cable sheath: Ø 5...9 mm; Cable gland: M20 X 1.5

#### Connection

