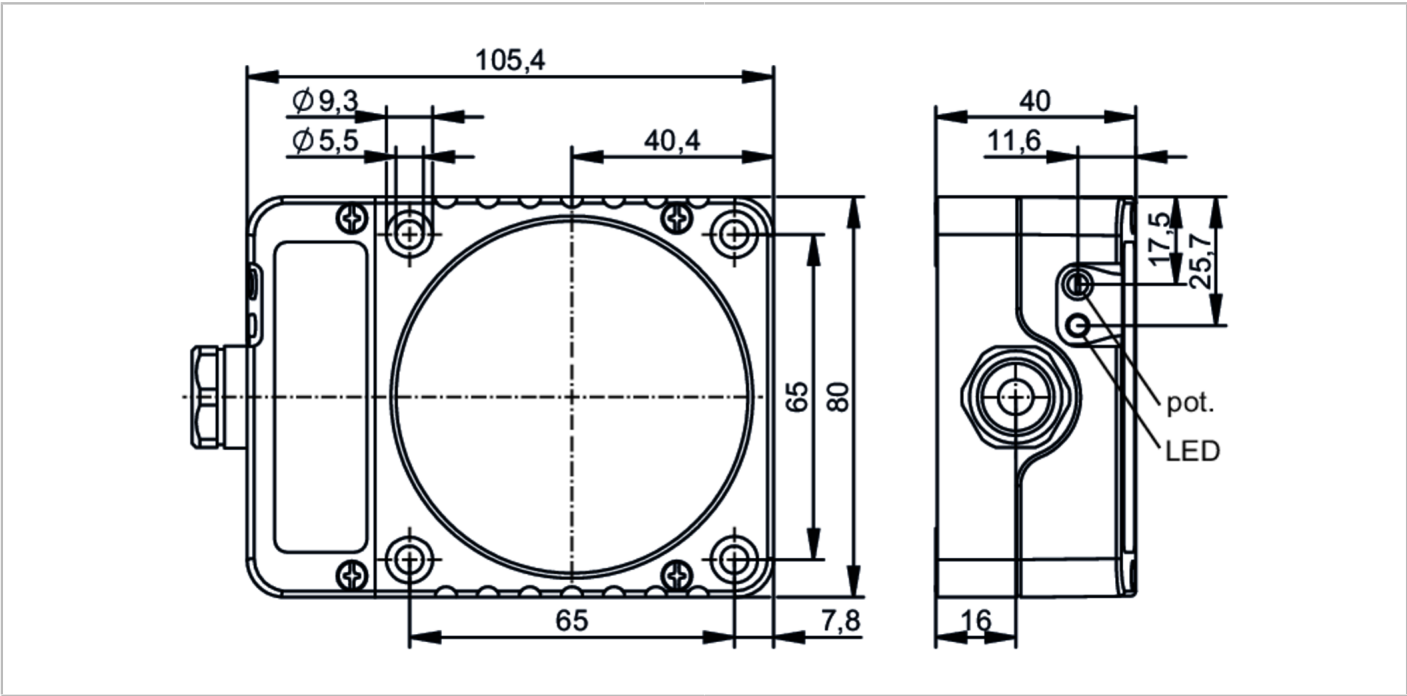


# KD5019



## Capacitive sensor

KDE3060-FNKG/NI



| Product characteristics                         |      |                                      |
|-------------------------------------------------|------|--------------------------------------|
| Electrical design                               |      | NPN                                  |
| Output function                                 |      | normally open / closed; (selectable) |
| Sensing range                                   | [mm] | 60                                   |
| Housing                                         |      | rectangular                          |
| Dimensions                                      | [mm] | 105 x 80 x 40                        |
| Electrical data                                 |      |                                      |
| Operating voltage                               | [V]  | 10...36 DC                           |
| Current consumption                             | [mA] | 15; (24 V)                           |
| Protection class                                |      | II                                   |
| Reverse polarity protection                     |      | yes                                  |
| Outputs                                         |      |                                      |
| Electrical design                               |      | NPN                                  |
| Output function                                 |      | normally open / closed; (selectable) |
| Max. voltage drop switching output DC           | [V]  | 2.5                                  |
| Permanent current rating of switching output DC | [mA] | 250                                  |
| Switching frequency DC                          | [Hz] | 10                                   |
| Short-circuit proof                             |      | yes                                  |
| Overload protection                             |      | yes                                  |
| Monitoring range                                |      |                                      |
| Sensing range                                   | [mm] | 60                                   |
| Real sensing range Sr                           | [mm] | 60 ± 10 %                            |
| Operating distance                              | [mm] | 0...48.6                             |

# KD5019



## Capacitive sensor

KDE3060-FNKG/NI

### 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] | -25...80 |
| Protection               | IP 65    |
| Increased immunity       | yes      |

### Tests / approvals

|              |              |     |
|--------------|--------------|-----|
| EMC          | EN 60947-5-2 |     |
| MTTF [years] |              | 550 |

### Mechanical data

|                 |                     |
|-----------------|---------------------|
| Weight [g]      | 296.5               |
| Housing         | rectangular         |
| Mounting        | non-flush mountable |
| Dimensions [mm] | 105 x 80 x 40       |
| Material        | PPE modified        |

### Displays / operating elements

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

### Accessories

|                |                    |
|----------------|--------------------|
| Items supplied | spring washers: 4  |
|                | cylinder screws: 4 |

### Remarks

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

### Electrical connection

terminals: ...2.5 mm<sup>2</sup>; Cable sheath: Ø 7...13 mm; Cable gland: M20 X 1.5

#### Connection

