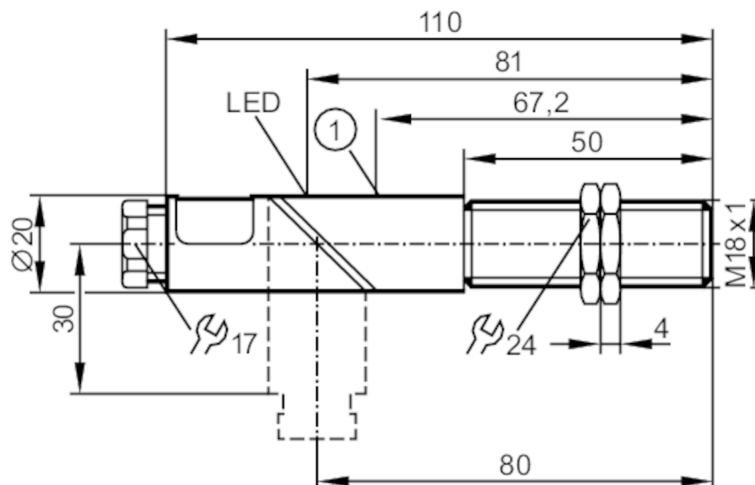


# KG5041



## Capacitive sensor

KGE3008-BPKG/NI



1 potentiometer



### Product characteristics

|                    |                   |
|--------------------|-------------------|
| Electrical design  | PNP               |
| Output function    | normally open     |
| Sensing range [mm] | 8                 |
| Housing            | threaded type     |
| Dimensions [mm]    | M18 x 1 / L = 110 |

### Electrical data

|                             |                           |
|-----------------------------|---------------------------|
| Operating voltage [V]       | 10...36 DC                |
| Current consumption [mA]    | < 10 (24 V) / < 15 (36 V) |
| Protection class            | II                        |
| Reverse polarity protection | yes                       |
| Measuring principle         | capacitive                |

### Outputs

|                                                      |               |
|------------------------------------------------------|---------------|
| Electrical design                                    | PNP           |
| Output function                                      | normally open |
| Max. voltage drop switching output DC [V]            | 2.5           |
| Permanent current rating of switching output DC [mA] | 250           |
| Switching frequency DC [Hz]                          | 50            |
| Short-circuit proof                                  | yes           |
| Overload protection                                  | yes           |

### Detection zone

|                                    |               |
|------------------------------------|---------------|
| Sensing range [mm]                 | 8             |
| Sensing range adjustable           | yes           |
| Factory setting sensing range [mm] | 8             |
| Real sensing range $S_r$ [mm]      | $8 \pm 10 \%$ |
| Operating distance [mm]            | 0...6.5       |

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### 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    |

### Tests / approvals

|              |              |     |
|--------------|--------------|-----|
| EMC          | EN 60947-5-2 |     |
| MTTF [years] |              | 637 |

### Mechanical data

|                    |                     |
|--------------------|---------------------|
| Weight [g]         | 81.5                |
| Housing            | threaded type       |
| Mounting           | non-flush mountable |
| Dimensions [mm]    | M18 x 1 / L = 110   |
| Thread designation | M18 x 1             |
| Materials          | PBT; PC             |

### Displays / operating elements

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

### Accessories

|                |              |
|----------------|--------------|
| Items supplied | lock nuts: 2 |
|----------------|--------------|

### Remarks

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

### Electrical connection

terminals: ...2.5 mm<sup>2</sup>; Cable sheath: Ø 4.5...10 mm; Cable gland: M16 X 1.5

### Connection

