

# KI5001

## Capacitive sensor

KI-3015-APKG/NI



### Electrical data

|                             |      |            |
|-----------------------------|------|------------|
| Operating voltage           | [V]  | 10...36 DC |
| Current consumption         | [mA] | 13; (24 V) |
| Protection class            |      | II         |
| Reverse polarity protection |      | yes        |

### Outputs

|                                                 |      |                 |
|-------------------------------------------------|------|-----------------|
| Electrical design                               |      | PNP             |
| Output function                                 |      | normally closed |
| Max. voltage drop switching output DC           | [V]  | 2.5             |
| Permanent current rating of switching output DC | [mA] | 250             |
| Switching frequency DC                          | [Hz] | 40              |
| Short-circuit proof                             |      | yes             |
| Overload protection                             |      | yes             |

### Detection zone

|                               |      |                |
|-------------------------------|------|----------------|
| Sensing range                 | [mm] | 15             |
| Sensing range adjustable      |      | yes            |
| Factory setting sensing range | [mm] | 15             |
| Real sensing range $S_r$      | [mm] | $15 \pm 10 \%$ |
| Operating distance            | [mm] | 0...12.1       |

### Accuracy / deviations

|                    |               |                                                  |
|--------------------|---------------|--------------------------------------------------|
| Correction factor  |               | glass: 0.4 / water: 1 / ceramics: 0.2 / PVC: 0.2 |
| Hysteresis         | [% of $S_r$ ] | 1...15                                           |
| Switch point drift | [% of $S_r$ ] | -15...15                                         |

### Operating conditions

|                     |      |                                                                     |
|---------------------|------|---------------------------------------------------------------------|
| Ambient temperature | [°C] | -25...70                                                            |
| Protection          |      | IP 65                                                               |
| Increased immunity  |      | yes; (increased immunity to conducted radio frequency interference) |

### Tests / approvals

|      |         |              |
|------|---------|--------------|
| EMC  |         | EN 60947-5-2 |
| MTTF | [years] | 778          |

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| Mechanical data    |      |                     |
|--------------------|------|---------------------|
| Weight             | [g]  | 193.2               |
| Housing            |      | threaded type       |
| Mounting           |      | non-flush mountable |
| Dimensions         | [mm] | M30 x 1.5 / L = 81  |
| Thread designation |      | M30 x 1.5           |
| Materials          |      | PBT                 |

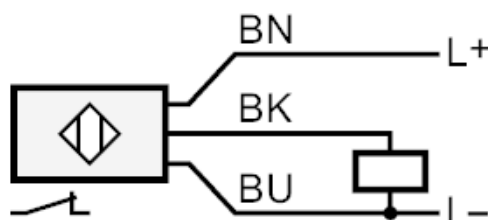
| Displays / operating elements |                  |                 |
|-------------------------------|------------------|-----------------|
| Display                       | switching status | 1 x LED, yellow |

| Accessories            |                |  |
|------------------------|----------------|--|
| Accessories (supplied) | lock nuts: 2   |  |
|                        | screwdriver: 1 |  |

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

| Electrical connection        |  |
|------------------------------|--|
| Cable: 2 m, PVC; 3 x 0.5 mm² |  |

### Connection



Core colours :

|      |       |
|------|-------|
| BN = | brown |
| BU = | blue  |
| BK = | black |