

## Capacitive sensor

KI-3015-BPKG/NI



## Product characteristics

|                    |                    |
|--------------------|--------------------|
| Electrical design  | PNP                |
| Output function    | normally open      |
| Sensing range [mm] | 15                 |
| Housing            | threaded type      |
| Dimensions [mm]    | M30 x 1.5 / L = 81 |

## 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 open |
| 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 Sr [mm]         | 15 ± 10 % |
| Operating distance [mm]            | 0...12.1  |

## 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                                         |

# KI5002



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### 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          |

### Mechanical data

|                    |      |                     |
|--------------------|------|---------------------|
| Weight             | [g]  | 193.5               |
| 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

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

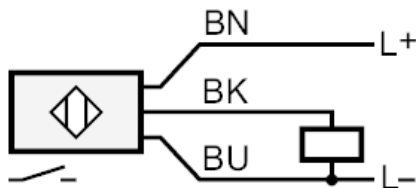
### Remarks

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

### Electrical connection

Cable: 2 m, PVC; 3 x 0.5 mm<sup>2</sup>

### Connection



BN = Core colours : brown  
BU = blue  
BK = black