

## Capacitive sensor

KG-2008-BBOA/NI



## Product characteristics

|                 |      |                  |
|-----------------|------|------------------|
| Output function |      | normally closed  |
| Sensing range   | [mm] | 8                |
| Housing         |      | threaded type    |
| Dimensions      | [mm] | M18 x 1 / L = 84 |

## Electrical data

|                             |     |                |
|-----------------------------|-----|----------------|
| Operating voltage           | [V] | 20...250 AC/DC |
| Protection class            |     | II             |
| Reverse polarity protection |     | no             |

## Outputs

|                                                 |      |                                                 |
|-------------------------------------------------|------|-------------------------------------------------|
| Output function                                 |      | normally closed                                 |
| Max. voltage drop switching output DC           | [V]  | 6                                               |
| Max. voltage drop switching output AC           | [V]  | 6                                               |
| Minimum load current                            | [mA] | 4                                               |
| Max. leakage current                            | [mA] | 2.5 (250 V AC) / 1.7 (110 V AC) / 1.5 (24 V DC) |
| Permanent current rating of switching output AC | [mA] | 150; (350 (...50 °C))                           |
| Permanent current rating of switching output DC | [mA] | 100                                             |
| Short-time current rating of switching output   | [mA] | 2100; (20 ms / 0,5 Hz)                          |
| Switching frequency AC                          | [Hz] | 25                                              |
| Switching frequency DC                          | [Hz] | 50                                              |
| Short-circuit proof                             |      | no                                              |
| Overload protection                             |      | no                                              |

## Detection zone

|                       |      |          |
|-----------------------|------|----------|
| Sensing range         | [mm] | 8        |
| Real sensing range Sr | [mm] | 8 ± 10 % |
| Operating distance    | [mm] | 0...6.5  |

## 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                                         |

# KG0010



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### Operating conditions

|                     |      |          |
|---------------------|------|----------|
| Ambient temperature | [°C] | -25...80 |
| Protection          |      | IP 67    |

### Tests / approvals

|      |         |              |
|------|---------|--------------|
| EMC  |         | EN 60947-5-2 |
| MTTF | [years] | 334          |

### Mechanical data

|                    |      |                     |
|--------------------|------|---------------------|
| Weight             | [g]  | 133.5               |
| Housing            |      | threaded type       |
| Mounting           |      | non-flush mountable |
| Dimensions         | [mm] | M18 x 1 / L = 84    |
| Thread designation |      | M18 x 1             |
| Materials          |      | PBT                 |

### Displays / operating elements

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

### Electrical connection

|                     |                                                          |
|---------------------|----------------------------------------------------------|
| Required protection | miniature fuse to IEC60127-2 sheet 1; ≤ 2 A; fast acting |
|---------------------|----------------------------------------------------------|

### Accessories

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

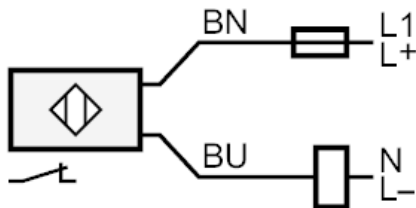
### Remarks

|               |                                                                               |
|---------------|-------------------------------------------------------------------------------|
| Remarks       | Recommendation: Check the safe functioning of the unit after a short circuit. |
| Pack quantity | 1 pcs.                                                                        |

### Electrical connection

Cable: 2 m, PVC; 2 x 0.34 mm<sup>2</sup>

### Connection



Note miniature fuse to IEC60127-2 sheet 1 ≤ 2 A fast acting  
Core colours :

BN = brown  
BU = blue