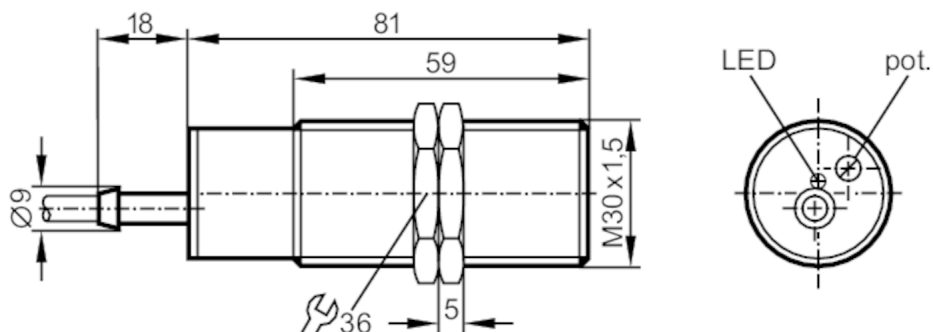




## Capacitive sensor

KI-2015-BBOA/NI/0,1/LS-100AK



### Product characteristics

|                 |      |                 |
|-----------------|------|-----------------|
| Output function |      | normally closed |
| Sensing range   | [mm] | 3...15          |
| Housing         |      | threaded type   |
| Dimensions      | [mm] | M30 x 1.5       |

### 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]  | 8                                               |
| Max. voltage drop switching output AC           | [V]  | 10                                              |
| Minimum load current                            | [mA] | 5                                               |
| 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] | 200; (250 (...50 °C))                           |
| Permanent current rating of switching output DC | [mA] | 200; (250 (...50 °C))                           |
| Short-time current rating of switching output   | [mA] | 1500; (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] | 3...15    |
| Sensing range adjustable      |      | yes       |
| Factory setting sensing range | [mm] | 15        |
| Real sensing range Sr         | [mm] | 15 ± 10 % |
| Operating distance            | [mm] | 0...12.1  |



## Capacitive sensor

KI-2015-BBOA/NI/0,1/LS-100AK

| 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...70                                                                 |
| Protection                    |           | IP 65                                                                         |
| Increased immunity            |           | yes; (increased immunity to conducted radio frequency interference)           |
| Tests / approvals             |           |                                                                               |
| EMC                           |           | EN 60947-5-2                                                                  |
| MTTF                          |           | [years] 302                                                                   |
| Mechanical data               |           |                                                                               |
| Weight                        |           | [g] 126.5                                                                     |
| Housing                       |           | threaded type                                                                 |
| Mounting                      |           | non-flush mountable                                                           |
| Dimensions                    |           | [mm] M30 x 1.5                                                                |
| Thread designation            |           | M30 x 1.5                                                                     |
| 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.                                                                        |

# KI0207



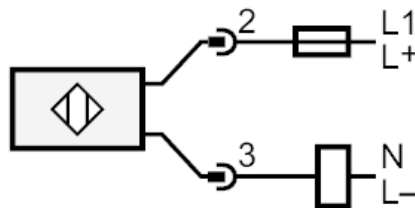
## Capacitive sensor

KI-2015-BBOA/NI/0,1/LS-100AK

### Electrical connection - plug

Cable: 0.1 m, PVC; 2 x 0.5 mm<sup>2</sup>

Connector: 1 x 1/2"; coding: C



Note miniature fuse to IEC60127-2 sheet 1  $\leq 2$  A fast acting