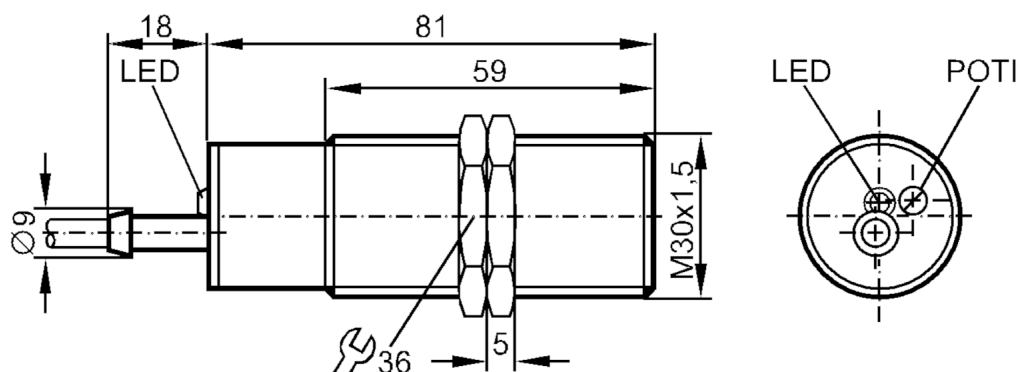


## Capacitive sensor

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



### Electrical data

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

### Outputs

|                                                 |      |                                                 |
|-------------------------------------------------|------|-------------------------------------------------|
| Output function                                 |      | normally open                                   |
| 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                                              |



## Capacitive sensor

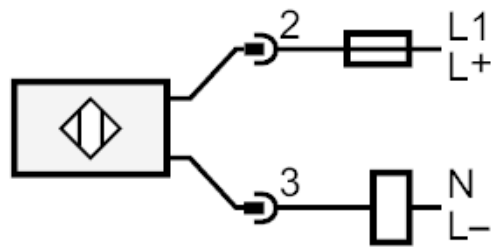
KI-2015-ABOA/NI/0,1/LS-100AK

| 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                                                                      |
| 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]              | 111                                                                           |
| 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                      |                  |                                                                               |
| Connection                                 |                  | plug                                                                          |
| Required protection                        |                  | miniature fuse to IEC60127-2 sheet 1; ≤ 2 A; fast acting                      |
| Accessories                                |                  |                                                                               |
| Accessories (supplied)                     |                  | lock nuts: 2<br>screwdriver: 1                                                |
| Remarks                                    |                  |                                                                               |
| Remarks                                    |                  | Recommendation: Check the safe functioning of the unit after a short circuit. |
| Pack quantity                              |                  | 1 pcs.                                                                        |
| Electrical connection - plug               |                  |                                                                               |
| Cable: 0.1 m, PVC; 2 x 0.5 mm <sup>2</sup> |                  |                                                                               |
| Connector: 1 x 1/2"                        |                  |                                                                               |

# KI0206

## Capacitive sensor

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



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