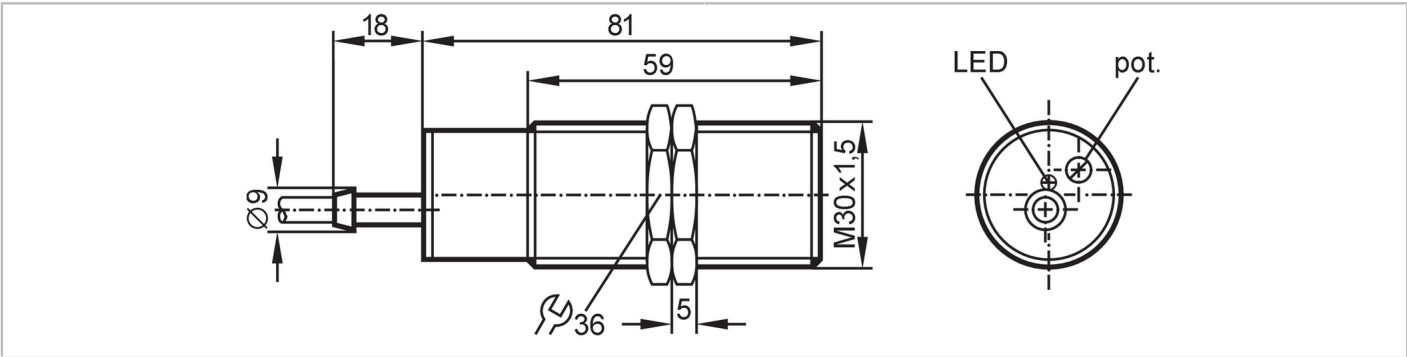


# KI0206



## Capacitive sensor

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



| Product characteristics                         |      |                                                 |
|-------------------------------------------------|------|-------------------------------------------------|
| Output function                                 |      | normally open                                   |
| Sensing range                                   | [mm] | 3...15                                          |
| Housing                                         |      | Threaded type                                   |
| Dimensions                                      | [mm] | M30 x 1.5 / L = 81                              |
| 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                                              |
| Monitoring range                                |      |                                                 |
| 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

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| 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                                                                 |
| Housing                       |           |                                                                             | Threaded type                                                       |
| Mounting                      |           |                                                                             | non-flush mountable                                                 |
| Dimensions                    |           | [mm]                                                                        | M30 x 1.5 / L = 81                                                  |
| Thread designation            |           |                                                                             | M30 x 1.5                                                           |
| Material                      |           |                                                                             | housing: 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 unit for reliable function after a short circuit. |                                                                     |
| Pack quantity                 |           | 1 pcs.                                                                      |                                                                     |

# KI0206



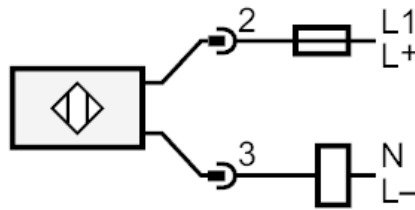
## Capacitive sensor

KI-2015-ABOA/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