



## Capacitive sensor

KI-2015-ABOA/NI



### Product characteristics

|                    |                    |
|--------------------|--------------------|
| Output function    | normally open      |
| Sensing range [mm] | 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; (for UL application: 250 / 100 DC)         |
| Permanent current rating of switching output DC [mA] | 200; (for UL application: 250 AC / 100 DC)      |
| Short-time current rating of switching output [mA]   | 1500; (20 ms / 0,5 Hz)                          |
| Switching frequency AC [Hz]                          | 25                                              |
| Switching frequency DC [Hz]                          | 40                                              |
| Short-circuit proof                                  | no                                              |
| Overload protection                                  | no                                              |

### Detection zone

|                                    |                |
|------------------------------------|----------------|
| Sensing range [mm]                 | 15             |
| Sensing range adjustable           | yes            |
| Factory setting sensing range [mm] | 15             |
| Real sensing range $S_r$ [mm]      | $15 \pm 10 \%$ |
| Operating distance [mm]            | 0...12.1       |



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| Accuracy / deviations         |                  |                                                                               |
|-------------------------------|------------------|-------------------------------------------------------------------------------|
| Correction factor             |                  | glass: 0.4 / water: 1 / ceramics: 0.2 / PVC: 0.2                              |
| Hysteresis                    | [X01]            | 1...15                                                                        |
| Switch point drift            | [X01]            | -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                          | [ANN]            | 489                                                                           |
| Mechanical data               |                  |                                                                               |
| Weight                        | [g]              | 196                                                                           |
| 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                                                               |
| Electrical connection         |                  |                                                                               |
| Required protection           |                  | miniature fuse to IEC60127-2 sheet 1; ≤ 2 A; fast acting                      |
| Аксессуары                    |                  |                                                                               |
| Items supplied                |                  | lock nuts: 2                                                                  |
| Remarks                       |                  |                                                                               |
| Remarks                       |                  | Recommendation: Check the safe functioning of the unit after a short circuit. |
| Pack quantity                 |                  | 1 pcs.                                                                        |

# KI0016



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### Electrical connection

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

### Connection



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

BN =

brown

BU =

blue