



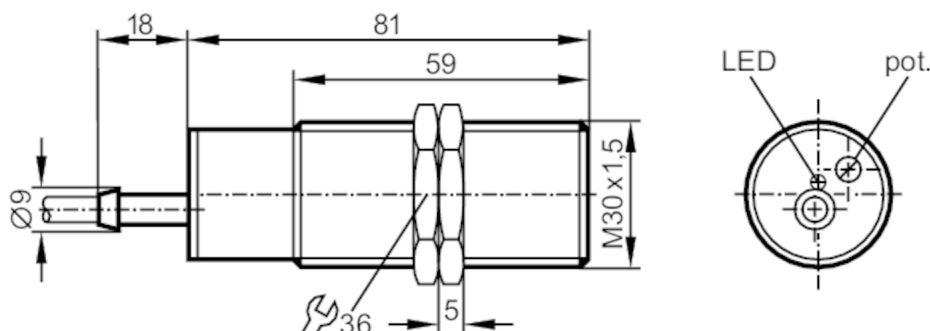
## Capacitive sensor

KI-2015-ABOA/NI

Article no longer available - archive entry

Alternative articles: KI0016

When selecting an alternative article and accessories please note that technical data may differ!



### 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] | 40  |
| Short-circuit proof                             |      | no  |
| Overload protection                             |      | no  |

### Monitoring range

|               |      |        |
|---------------|------|--------|
| Sensing range | [mm] | 3...15 |
|---------------|------|--------|

# KI0200



## Capacitive sensor

KI-2015-ABOA/NI

|                                      |   |
|--------------------------------------|---|
| Sensing range adjustable             | yes   |
| Factory setting sensing range [mm]   | 15  |
| Real sensing range Sr [mm]           | 15 ± 10 %   |
| Operating distance [mm]              | 0...12.1  |
| <b>Accuracy / deviations</b>         |   |
| 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  |
| <b>Operating conditions</b>          |   |
| Ambient temperature [°C]             | -25...70  |
| Protection                           | IP 65   |
| Increased immunity                   | yes; (Increased immunity to conducted radio frequency interference)         |
| <b>Tests / approvals</b>             |   |
| EMC                                  | EN 60947-5-2  |
| <b>Mechanical data</b>               |   |
| Housing                              | Threaded type   |
| Mounting                             | non-flush mountable   |
| Dimensions [mm]                      | M30 x 1.5 / L = 81  |
| Thread designation                   | M30 x 1.5   |
| Material                             | PBT   |
| <b>Displays / operating elements</b> |   |
| Display                              | Switching status 1 x LED, yellow  |
| <b>Electrical connection</b>         |   |
| Required protection                  | miniature fuse to IEC60127-2 sheet 1; ≤ 2 A; fast acting                    |
| <b>Accessories</b>                   |   |
| Items supplied                       | lock nuts: 2  |
|                                      | screwdriver: 1  |
| <b>Remarks</b>                       |   |
| Remarks                              | Recommendation: check the unit for reliable function after a short circuit. |
| Pack quantity                        | 1 pcs.  |

# KI0200



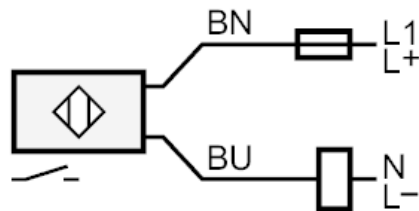
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### Electrical connection

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 colors :

BN =

brown

BU =

blue