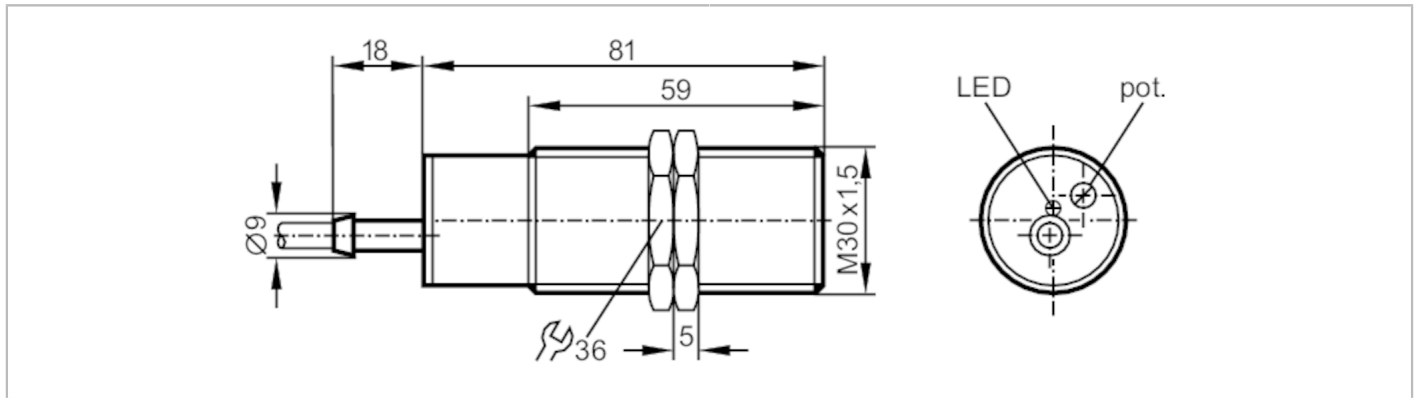


KI0202



Capacitive sensor

KI-2015-ABOA/NI



| 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; (for UL application: 200 / 100 DC) |
| Permanent current rating of switching output DC [mA] | 200; (for UL application: 200 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 |
| 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 |

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Capacitive sensor

KI-2015-ABOA/NI

| 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] | 489 |
| Mechanical data | | |
| Weight | [g] | 181.5 |
| Housing | | Threaded type |
| Mounting | | non-flush mountable |
| Dimensions | [mm] | M30 x 1.5 / L = 81 |
| Thread designation | | M30 x 1.5 |
| Material | | 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 screwdriver: 1 |
| Remarks | | |
| Remarks | | Recommendation: check the unit for reliable function after a short circuit. |
| Pack quantity | | 1 pcs. |

KI0202



Capacitive sensor

KI-2015-ABOA/NI

Electrical connection

Cable: 2 m, PVC; 2 x 0.5 mm²

Connection



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

Core colors :

BN = brown

BU = blue