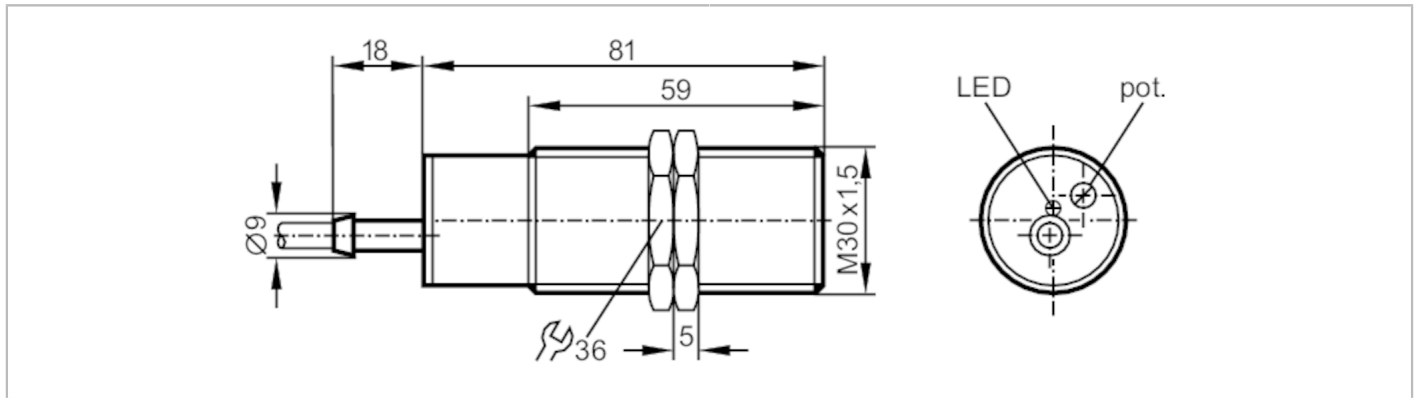


KI5030



Capacitive NAMUR sensor

KI-2015-N/NI/1D/1G



| Product characteristics | |
|------------------------------------|---|
| Electrical design | NAMUR |
| Output function | normally closed |
| Sensing range [mm] | 15 |
| Housing | threaded type |
| Dimensions [mm] | M30 x 1.5 / L = 81 |
| Electrical data | |
| Connection to switching amplifiers | yes |
| Switching amplifiers | connection to certified intrinsically safe circuits with the max. values: U = 15 V / I = 50 mA / P = 120 mW |
| Nominal voltage DC [V] | 8.2; (1kΩ) |
| Supply voltage DC [V] | 7.5...15 |
| Current consumption [mA] | < 1; (disabled; conductive: > 2,2) |
| Protection class | II |
| Outputs | |
| Electrical design | NAMUR |
| Output function | normally closed |
| Switching frequency DC [Hz] | 40 |
| Short-circuit proof | yes |
| Detection zone | |
| Sensing range [mm] | 15 |
| Sensing range adjustable | yes |
| Factory setting sensing range [mm] | 15 |
| Real sensing range Sr [mm] | 15 ± 10 % |
| 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] | -20...60 |
| Protection | IP 65 |

KI5030

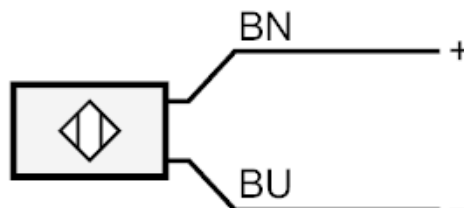


Capacitive NAMUR sensor

KI-2015-N/NI/1D/1G

| Tests / approvals | | |
|--|--|-----------------|
| Approval | DMT 01 ATEX E 020; TIIS TC15627; IECEx BVS 06.0003 | |
| ATEX marking | II 1G Ex ia IIB T6 Ga | |
| | II 1D Ex ia IIIC T90°C Da | |
| EMC | IEC 60947-5-2 | |
| MTTF [years] | 841 | |
| Safety classification | | |
| Max. internal capacitance [nF] | 375 | |
| Max. internal inductance [µH] | 1 | |
| Mechanical data | | |
| Weight [g] | 212.5 | |
| 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 |
| Remarks | | |
| Pack quantity | 1 pcs. | |
| Electrical connection | | |
| Cable: 2 m, PVC; 2 x 0.5 mm ² | | |

Connection



Core colours :

BN = brown
BU = blue