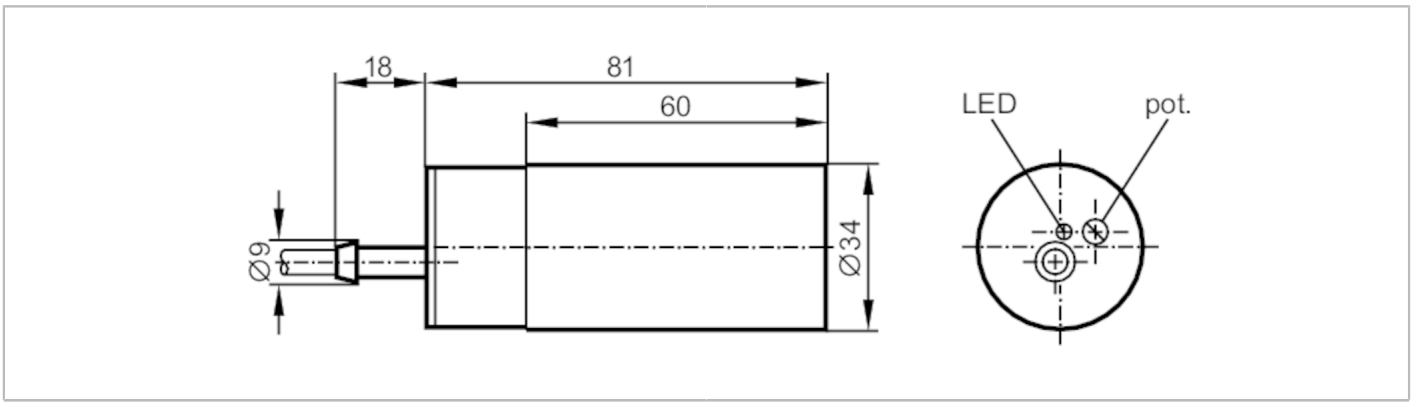
# KB5205

## Capacitive sensor

KB-3020-ANKG/NI/6M

phase-out article




| | | |
|---|---|---|
| **Product characteristics** | | |
| Electrical design | | NPN |
| Output function | | normally open |
| Sensing range | [mm] | 3...20 |
| Housing | | cylindrical |
| Dimensions | [mm] | Ø 34 / L = 81 |
| **Electrical data** | | |
| Operating voltage | [V] | 10...36 DC |
| Current consumption | [mA] | 13;  (24 V) |
| Protection class | | II |
| Reverse polarity protection | | yes |
| **Outputs** | | |
| Electrical design | | NPN |
| Output function | | normally open |
| Max. voltage drop switching output DC | [V] | 2.5 |
| Permanent current rating of switching output DC | [mA] | 250 |
| Switching frequency DC | [Hz] | 40 |
| Short-circuit protection | | yes |
| Type of short-circuit protection | | pulsed |
| Overload protection | | yes |
| **Detection zone** | | |
| Sensing range | [mm] | 3...20 |
| Sensing range adjustable | | yes |
| Factory setting sensing range | [mm] | 20 |
| Real sensing range Sr | [mm] | 20 ± 10 % |
| Operating distance | [mm] | 0...16.2 |
| **Accuracy / deviations** | | |
| Correction factor | | glass: 0.4 / water: 1 / ceramics: 0.2 / PVC: 0.2 |

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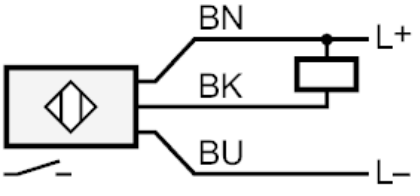
| | | | |
|---|---|---|---|
| Hysteresis | [% of Sr] | 1...15 | |
| Switch point drift | [% of Sr] | -15...15 | |
| **Operating conditions** | | | |
| Ambient temperature | [°C] | -25...70 | |
| Protection | | IP 65 | |
| Increased immunity | | yes; (increased immunity to conducted radio frequency interference) | |
| **Tests / approvals** | | | |
| EMC | | EN 60947-5-2 | |
| MTTF | [years] | 739 | |
| **Mechanical data** | | | |
| Weight | [g] | 429.8 | |
| Housing | | cylindrical | |
| Mounting | | non-flush mountable | |
| Dimensions | [mm] | Ø 34 / L = 81 | |
| Materials | | PBT | |
| **Displays / operating elements** | | | |
| Display | | switching status | 1 x LED, yellow |
| **Accessories** | | | |
| Items supplied | | Mounting clamps: 1 | |
| | | screwdriver: 1 | |
| **Remarks** | | | |
| Pack quantity | | 1 pcs. | |
| **Electrical connection** | | | |

Cable: 6 m, PVC; 3 x 0.5 mm²

Connection




| | |
|---|---|
| | Core colours : |
| BN = | brown |
| BU = | blue |
| BK = | black |