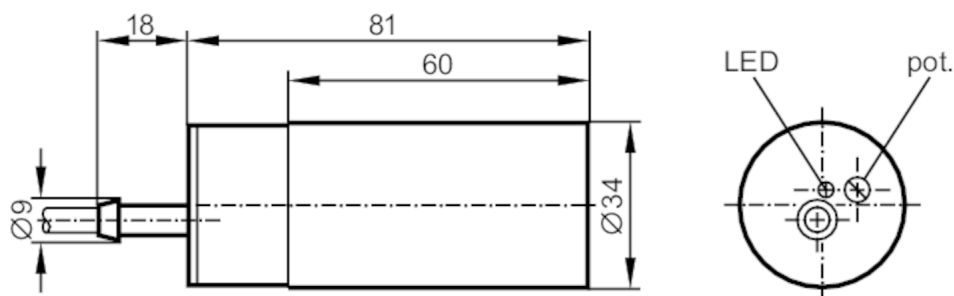


KB5004



Capacitive sensor

KB-3020-BPKG/NI



Product characteristics

| | |
|--------------------|---------------|
| Electrical design | PNP |
| Output function | normally open |
| Sensing range [mm] | 3...20 |
| Housing | tubular |
| 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 | PNP |
| 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 proof | yes |
| Overload protection | yes |

Monitoring range

| | |
|------------------------------------|-----------|
| 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 |
| Hysteresis [% of Sr] | 1...15 |
| Switch-point drift [% of Sr] | -15...15 |

KB5004



Capacitive sensor

KB-3020-BPKG/NI

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] | 778 |

Mechanical data

| | | |
|------------|------|---------------------|
| Weight | [g] | 255.5 |
| Housing | | tubular |
| Mounting | | non-flush mountable |
| Dimensions | [mm] | Ø 34 / L = 81 |
| Material | | PBT |

Displays / operating elements

| | | |
|---------|------------------|-----------------|
| Display | Switching status | 1 x LED, yellow |
|---------|------------------|-----------------|

Accessories

| | | |
|----------------|--|-------------------------------------|
| Items supplied | | Mounting clamp: 1 screwdriver: 1 |
|----------------|--|-------------------------------------|

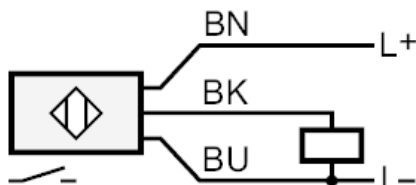
Remarks

| | | |
|---------------|--|--------|
| Pack quantity | | 1 pcs. |
|---------------|--|--------|

Electrical connection

Cable: 2 m, PVC; 3 x 0.5 mm²

Connection



BN = Core colors :
brown
BU = blue
BK = black