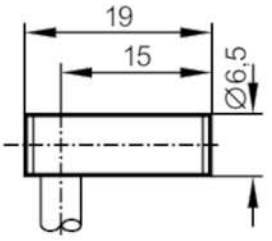
# IT5039

## Inductive sensor

ITB3002-BPKG/2M PVC




| | | |
|---|---|---|
| **Product characteristics** | | |
| Electrical design | | PNP |
| Output function | | normally open |
| Sensing range | [mm] | 2 |
| Housing | | cylindrical |
| Dimensions | [mm] | Ø 6.5 / L = 19 |
| **Electrical data** | | |
| Operating voltage | [V] | 10...30 DC |
| Current consumption | [mA] | 20;  (24 V) |
| 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] | 200 |
| Switching frequency DC | [Hz] | 1000 |
| Short-circuit protection | | yes |
| Type of short-circuit protection | | pulsed |
| Overload protection | | no |
| **Detection zone** | | |
| Sensing range | [mm] | 2 |
| Real sensing range Sr | [mm] | 2 ± 10 % |
| Operating distance | [mm] | 0...1.6 |
| **Accuracy / deviations** | | |
| Correction factor | | steel: 1 / stainless steel: 0.7 / brass: 0.4 / aluminium: 0.3 / copper: 0.2 |
| Hysteresis | [% of Sr] | < 15 |
| Switch point drift | [% of Sr] | -10...10 |
| **Operating conditions** | | |
| Ambient temperature | [°C] | -25...70 |
| Protection | | IP 67 |

# IT5039

## Inductive sensor

ITB3002-BPKG/2M PVC

| Tests / approvals | | | |
|---|---|---|---|
| EMC | | EN 60947-5-2 | |
| | | EN 55011 | class B |
| MTTF | [years] | 1045 | |
| UL approval | | Ta | 0...40 °C |
| | | power supply | Class 2 |
| | | File number UL | E174191 |

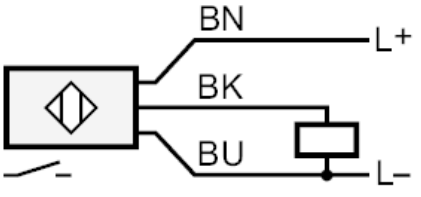
| Mechanical data | | |
|---|---|---|
| Weight | [g] | 57 |
| Housing | | cylindrical |
| Mounting | | flush mountable |
| Dimensions | [mm] | Ø 6.5 / L = 19 |
| Materials | | housing: stainless steel; sensing face: PBT |

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

## Electrical connection

Cable: 2 m, PVC; 3 x 0.14 mm²

Connection




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