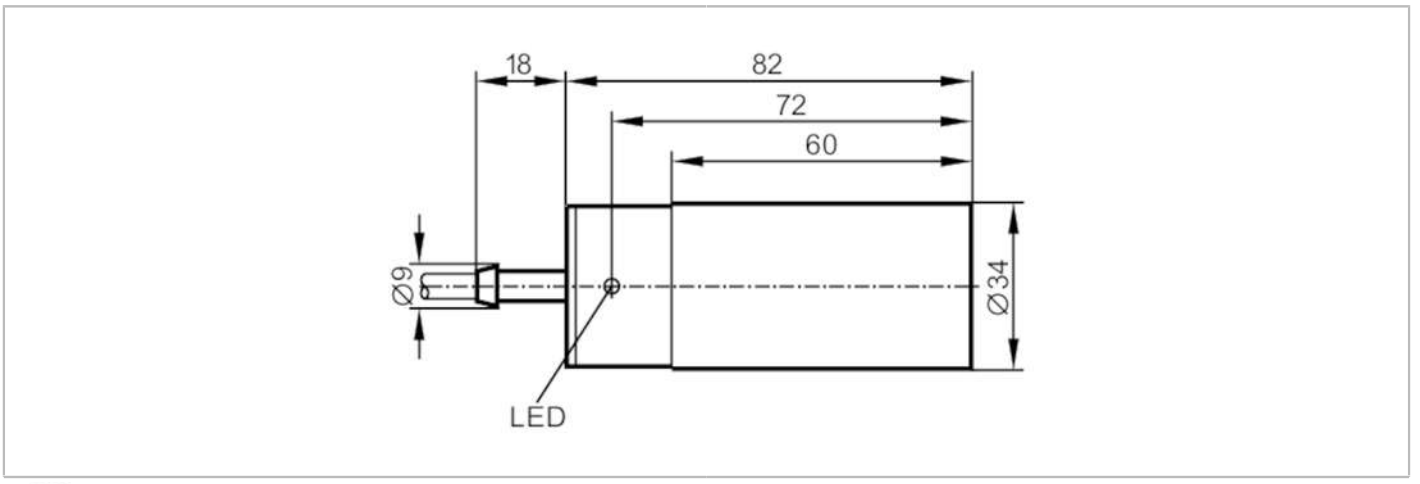
# IB5161

## Inductive sensor

IB-2020-FRKG/6M/PH




| | | |
|---|---|---|
| **Product characteristics** | | |
| Output function | | normally open / normally closed; (selectable) |
| Sensing range | [mm] | 20 |
| Housing | | cylindrical |
| Dimensions | [mm] | Ø 34 / L = 82 |
| **Electrical data** | | |
| Operating voltage | [V] | 10...55 DC |
| Protection class | | II |
| Reverse polarity protection | | yes |
| **Outputs** | | |
| Output function | | normally open / normally closed; (selectable) |
| Max. voltage drop switching output DC | [V] | 4.6 |
| Minimum load current | [mA] | 4 |
| Max. leakage current | [mA] | 0.5 |
| Permanent current rating of switching output DC | [mA] | 400 |
| Switching frequency DC | [Hz] | 300 |
| Short-circuit protection | | yes |
| Type of short-circuit protection | | pulsed |
| Overload protection | | yes |
| **Detection zone** | | |
| Sensing range | [mm] | 20 |
| Real sensing range Sr | [mm] | 20 ± 10 % |
| Operating distance | [mm] | 0...16.2 |
| **Accuracy / deviations** | | |
| Correction factor | | steel: 1 / stainless steel: 0.7 / brass: 0.4 / aluminium: 0.3 / copper: 0.2 |
| Hysteresis | [% of Sr] | 3...15 |
| Switch point drift | [% of Sr] | -10...10 |

# IB5161

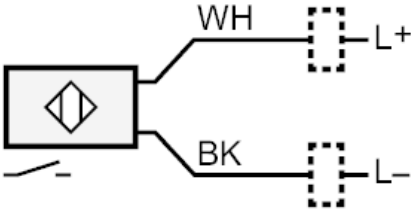
## Inductive sensor

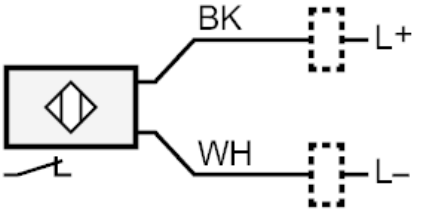
IB-2020-FRKG/6M/PH

| | | | |
|---|---|---|---|
| **Operating conditions** | | | |
| Ambient temperature | [°C] | -25...80 | |
| Protection | | IP 67 | |
| **Tests / approvals** | | | |
| EMC | | EN 60947-5-2 | |
| MTTF | [years] | 1699 | |
| **Mechanical data** | | | |
| Weight | [g] | 415 | |
| Housing | | cylindrical | |
| Mounting | | non-flush mountable | |
| Dimensions | [mm] | Ø 34 / L = 82 | |
| Materials | | PBT | |
| **Displays / operating elements** | | | |
| Display | | switching status | 1 x LED, yellow |
| **Accessories** | | | |
| Items supplied | | Mounting clamps: 1 | |
| **Remarks** | | | |
| Pack quantity | | 1 pcs. | |
| **Electrical connection** | | | |

Cable: 6 m, PUR / PVC; 2 x 0.5 mm²

Connection




Core colours :
BK = black
WH = white