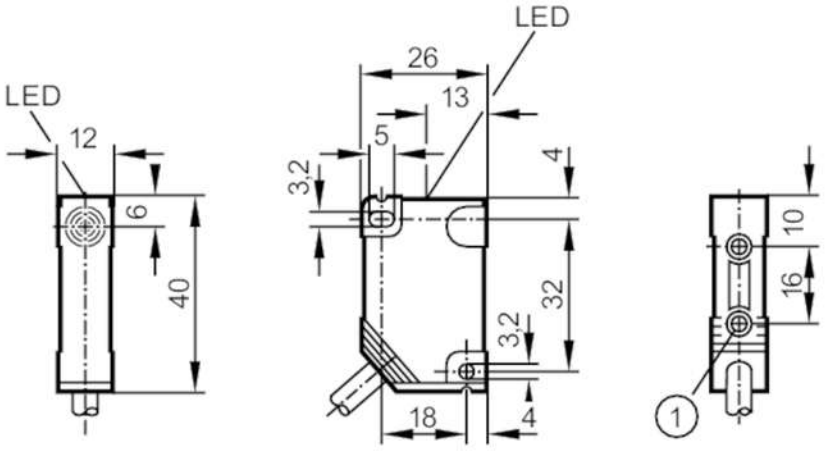
# IN5207

## Inductive sensor

IN-2002-FRKG/PH




1 threaded bush M3 Depth 5.8 mm
Tightening torque maximum 1.2 Nm screw fixing class 8.8
when brass insert in contact with counterpart

| | | |
|---|---|---|
| **Product characteristics** | | |
| Electrical design | | PNP/NPN |
| Output function | | normally open / normally closed; (selectable) |
| Sensing range | [mm] | 2 |
| Housing | | rectangular |
| Dimensions | [mm] | 40 x 12 x 26 |
| **Electrical data** | | |
| Operating voltage | [V] | 10...55 DC |
| Protection class | | II |
| Reverse polarity protection | | yes |
| **Outputs** | | |
| Electrical design | | PNP/NPN |
| 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] | 1300 |
| Short-circuit protection | | yes |
| Type of short-circuit protection | | pulsed |
| Overload protection | | yes |
| **Detection zone** | | |
| Sensing range | [mm] | 2 |
| Real sensing range Sr | [mm] | 2 ± 10 % |

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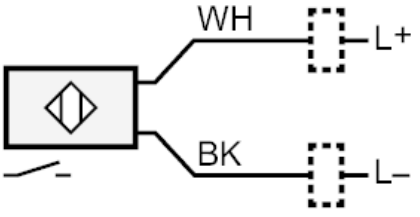
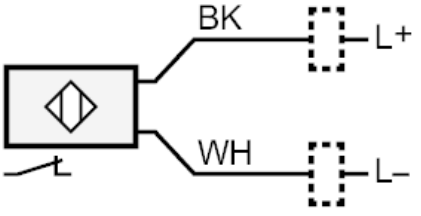
| | | | |
|---|---|---|---|
| Operating distance | [mm] | 0...1.6 | |
| **Accuracy / deviations** | | | |
| Correction factor | | steel: 1 / stainless steel: 0.7 / brass: 0.4 / aluminium: 0.4 / copper: 0.3 | |
| Hysteresis | [% of Sr] | 1...15 | |
| Switch point drift | [% of Sr] | -10...10 | |
| **Operating conditions** | | | |
| Ambient temperature | [°C] | -25...80 | |
| Protection | | IP 67 | |
| **Tests / approvals** | | | |
| EMC | | EN 60947-5-2 | |
| | | EN 55011 | class B |
| MTTF | [years] | 1773 | |
| **Mechanical data** | | | |
| Weight | [g] | 95.4 | |
| Housing | | rectangular | |
| Mounting | | flush mountable | |
| Dimensions | [mm] | 40 x 12 x 26 | |
| Materials | | PBT | |
| **Displays / operating elements** | | | |
| Display | | switching status | 1 x LED, yellow |
| **Remarks** | | | |
| Pack quantity | | 1 pcs. | |
| **Electrical connection** | | | |

Cable: 2 m, PUR / PVC; 2 x 0.5 mm²

Connection




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