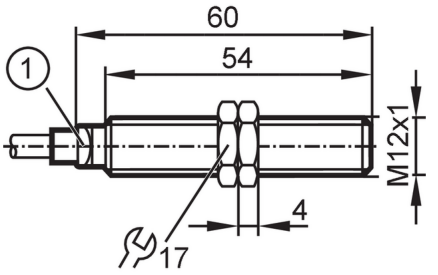
# IFS254

## Inductive sensor

IFK3004BANKG/2M/PUR




1 LED yellow

| | | |
|---|---|---|
| **Product characteristics** | | |
| Electrical design | | NPN |
| Output function | | normally open |
| Sensing range | [mm] | 4 |
| Housing | | threaded type |
| Dimensions | [mm] | M12 x 1 / L = 60 |
| **Application** | | |
| Special feature | | Increased sensing range |
| Application | | Suitable for industrial, mobile, cooling and lubricating applications; Industrial applications / factory automation |
| **Electrical data** | | |
| Operating voltage | [V] | 10...30 DC |
| Current consumption | [mA] | < 10 |
| Protection class | | III |
| 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] | 100 |
| Switching frequency DC | [Hz] | 700 |
| Short-circuit protection | | yes |
| Overload protection | | yes |
| **Detection zone** | | |
| Sensing range | [mm] | 4 |
| Real sensing range Sr | [mm] | 4 ± 10 % |
| Operating distance | [mm] | 0...3.24 |
| Increased sensing range | | yes |
| **Accuracy / deviations** | | |
| Correction factor | | steel: 1 / stainless steel: 0.7 / brass: 0.5 / aluminium: 0.4 / copper: 0.3 |
| Hysteresis | [% of Sr] | 3...15 |
| Switch point drift | [% of Sr] | -10...10 |

# IFS254

## Inductive sensor

**IFK3004BANKG/2M/PUR**

| | | | |
|---|---|---|---|
| **Operating conditions** | | | |
| Ambient temperature | [°C] | -40...85 | |
| Protection | | IP 65; IP 66; IP 67; IP 68; IP 69K | |
| **Tests / approvals** | | | |
| EMC | | EN 61000-4-2 ESD | 4 kV CD / 8 kV AD |
| | | EN 61000-4-3 HF radiated | 10 V/m |
| | | EN 61000-4-4 Burst | 2 kV |
| | | EN 61000-4-6 HF conducted | 10 V |
| | | EN 55011 | class B |
| Vibration resistance | | EN 60068-2-6 Fc | 20 g (10...3000 Hz) / 50 sweep cycles, 1 octave per minute, in 3 axes |
| Shock resistance | | EN 60068-2-27 Ea | 100 g 11 ms half-sine; 3 shocks each in every direction of the 3 coordinate axes |
| Continuous shock resistance | | EN 60068-2-27 | 40 g 6 ms; 4000 shocks each in every direction of the 3 coordinate axes |
| Fast temperature change | | EN 60068-2-14 Na | TA = -40 °C; TB = 85 °C; t1 = 30 min; t2 = < 10 s; 50 cycles |
| Salt spray test | | EN 60068-2-52 Kb | severity level 5 (4 test cycles) |
| MTTF | [years] | 837 | |
| Embedded software included | | yes | |
| UL approval | | Ta | -25...75 °C |
| | | Enclosure type | Type 1 |
| | | voltage supply | Limited Voltage/Current |
| | | UL approval no. | A002 |
| | | File number UL | E174191 |
| **Mechanical data** | | | |
| Weight | [g] | 78.2 | |
| Housing | | threaded type | |
| Mounting | | flush mountable | |
| Dimensions | [mm] | M12 x 1 / L = 60 | |
| Thread designation | | M12 x 1 | |
| Materials | | housing: brass white bronze coated; LED window: PEI; lock nuts: brass white bronze coated; sensing face: PBT orange | |
| **Displays / operating elements** | | | |
| Display | | switching status | 1 x LED, yellow |
| **Accessories** | | | |
| Items supplied | | lock nuts: 2 | |
| **Remarks** | | | |
| Pack quantity | | 1 pcs. | |

# IFS254

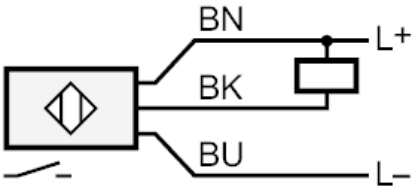
## Inductive sensor

**IFK3004BANKG/2M/PUR**

## Electrical connection

Cable: 2 m, PUR, Ø 4 mm; burning behaviour to ECE R118 rev. 2; 3 x 0.34 mm²

### Connection




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