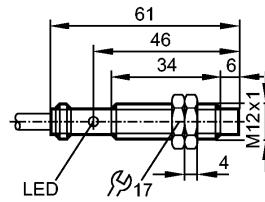


IF7107

IFK3004-ANKG/I/2M

Inductive sensors


Product characteristics

Inductive sensor

Metal thread M12 x 1

Cable

Sensing range 4 mm; [nf] non-flush mountable

Electrical data

| | |
|-----------------------------|------------|
| Electrical design | DC NPN |
| Operating voltage [V] | 15...30 DC |
| Current consumption [mA] | < 15 |
| Protection class | III |
| Reverse polarity protection | yes |

Outputs

| | |
|--------------------------|--------------------|
| Output function | normally open |
| Voltage drop [V] | < 2.5 |
| Current rating [mA] | 100 |
| Short-circuit protection | yes (non-latching) |
| Overload protection | yes |
| Switching frequency [Hz] | 800 |

Monitoring range

| | |
|------------------------------|----------|
| Sensing range [mm] | 4 |
| Real sensing range (Sr) [mm] | 4 ± 10 % |
| Operating distance [mm] | 0...3.25 |

Accuracy / deviations

| | |
|------------------------------|---|
| Correction factors | mild steel = 1 / stainless steel approx. 0.7 / brass approx. 0.4 / aluminium approx. 0.4 / copper approx. 0.3 |
| Hysteresis [% of Sr] | 1...20 |
| Switch-point drift [% of Sr] | -10...10 |

Environment

| | |
|--------------------------|----------|
| Ambient temperature [°C] | -25...70 |
| Protection | IP 67 |

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: 3 V EN 55011: class B |
| MTTF [Years] | 1283 |

Mechanical data

| | |
|----------|---------------------|
| Mounting | non-flush mountable |
|----------|---------------------|

IF7107

IFK3004-ANKG/I/2M

Inductive sensors

| | |
|-------------------|--|
| Housing materials | housing: brass nickel-plated; active face: PBT; lock nuts: brass |
| Weight [kg] | 0.092 |

Displays / operating elements

| | | |
|--------------------------|-----|--------|
| Output status indication | LED | yellow |
|--------------------------|-----|--------|

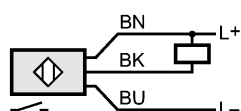
Electrical connection

| | |
|------------|--|
| Connection | PVC cable / 2 m; 3 x 0.34 mm ² ; Ø 4.9 mm |
|------------|--|

Wiring

Core colors

BK black
 BN brown
 BU blue



Accessories

| | |
|------------------------|-------------|
| Accessories (included) | 2 lock nuts |
|------------------------|-------------|

Remarks

| | | |
|---------------|---------|---|
| Pack quantity | [piece] | 1 |
|---------------|---------|---|