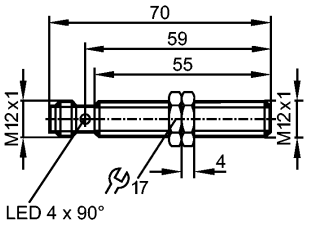
efector100

# IFC237

IFK3004BBPKG/US-104

**Inductive sensors**




| | | |
|---|---|---|
| **Product characteristics** | | |
| Inductive sensor | | |
| Metal thread M12 x 1 | | |
| Quick disconnect | | |
| Increased sensing range | | |
| gold-plated contacts | | |
| Sensing range 4 mm; [f] flush mountable | | |
| **Electrical data** | | |
| Electrical design | | DC PNP |
| Operating voltage | [V] | 10...30 DC |
| Current consumption | [mA] | < 10 |
| Protection class | | II |
| Reverse polarity protection | | yes |
| **Outputs** | | |
| Output function | | normally open |
| Voltage drop | [V] | < 2.5 |
| Current rating | [mA] | 100 |
| Short-circuit protection | | yes |
| Overload protection | | yes |
| Switching frequency | [Hz] | 700 |
| **Monitoring range** | | |
| Sensing range | [mm] | 4 |
| Operating distance | [mm] | 0...3.24 |
| **Accuracy / deviations** | | |
| Correction factors | | mild steel = 1 / stainless steel approx. 0.7 / brass approx. 0.5 / aluminium approx. 0.4 / copper approx. 0.3 |
| Hysteresis | [% of Sr] | 3...15 |
| Switch-point drift | [% of Sr] | -10...10 |
| **Environment** | | |
| Ambient temperature | [°C] | -25...70 |
| Protection | | IP 68; "Coolant" |
| **Tests / approvals** | | |
| EMC | | EN 61000-4-2 ESD: 4 kV CD / 8 kV AD<br>EN 61000-4-3 HF radiated: 10 V/m<br>EN 61000-4-4 Burst: 2 kV<br>EN 61000-4-5 Surge: 0.5 kV<br>EN 61000-4-6 HF conducted: 10 V<br>EN 55011: class B |
| MTTF | [Years] | 1528 |

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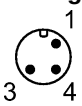
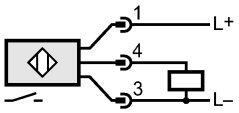
**Inductive sensors**

| | | |
|---|---|---|
| UL approval number | | A003 |
| **Mechanical data** | | |
| Mounting | | flush mountable |
| Housing materials | | brass white bronze coated; active face: LCP white; LED window: PEI; lock nuts: brass white bronze coated |
| Weight | [kg] | 0.032 |
| **Displays / operating elements** | | |
| Output status indication | LED | 4 x yellow |
| **Electrical connection** | | |
| Connection | | M12 connector; gold-plated contacts |

**Wiring**




| | | |
|---|---|---|
| **Accessories** | | |
| Accessories (included) | | 2 lock nuts |
| **Remarks** | | |
| Pack quantity | [piece] | 1 |