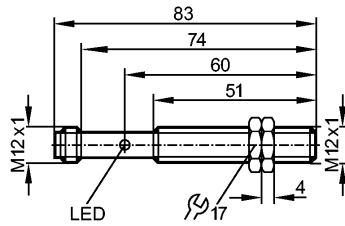


**IF6044**

IFA2002-FRKG/US-100-IRF

Inductive sensors



**Product characteristics**

Inductive sensor
Metal thread M12 x 1
Quick disconnect
Sensing range 2 mm; [f] flush mountable

**Electrical data**

Electrical design	DC PNP/NPN
Operating voltage [V]	10...55 DC
Protection class	II
Reverse polarity protection	yes

**Outputs**

Output function	normally open / closed programmable
Voltage drop [V]	< 4.6
Minimum load current [mA]	> 4
Leakage current [mA]	< 0.5
Current rating [mA]	300
Short-circuit protection	yes (non-latching)
Overload protection	yes
Switching frequency [Hz]	1680

**Monitoring range**

Sensing range [mm]	2
Real sensing range (Sr) [mm]	2 ± 10 %
Operating distance [mm]	0...1.62

**Accuracy / deviations**

Correction factors	mild steel = 1 / stainless steel approx. 0.7 / brass approx. 0.4 / aluminium approx. 0.3 / copper approx. 0.2
Hysteresis [% of Sr]	1...20

**Environment**

Ambient temperature [°C]	-25...80
Protection	IP 67

**Tests / approvals**

EMC	EN 61000-4-2 ESD:	8 kV CD / 15 kV AD
	EN 61000-4-3 HF radiated:	10 V/m
	EN 61000-4-4 Burst:	2 kV
	EN 61000-4-5 Surge:	0.5 kV (line to line, Ri: 20hm)
	EN 61000-4-6 HF conducted:	10 V
	EN 55011:	class B
MTTF [Years]		1844

**Mechanical data**

**IF6044**

IFA2002-FRKG/US-100-IRF

**Inductive sensors**

Mounting	flush mountable
Housing materials	threaded sleeve: brass white bronze coated; active face: PBT; end cap: TPE; lock nuts: brass
Weight [kg]	0.036

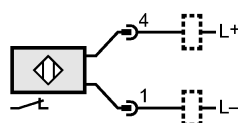
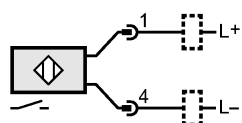
**Displays / operating elements**

Output status indication	LED	yellow
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**Electrical connection**

Connection	M12 connector
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**Wiring**



**Accessories**

Accessories (included)	2 lock nuts
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**Remarks**

Pack quantity [piece]	1
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