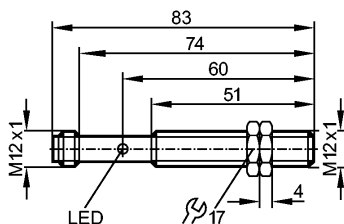


IF6044

IFA2002-FRKG/US-100-IRF

Inductive sensors



Made in Germany



Product characteristics

Inductive sensor
Metal thread M12 x 1
Connector
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	pulsed
Overload protection	yes
Switching frequency [Hz]	1680

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 / Al approx. 0.3 / Cu 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 (80...1000 MHz) EN 61000-4-4 Burst: 2 kV EN 61000-4-5 Surge: 0.5 kV (line to line, Ri: 2Ohm) EN 61000-4-6 HF conducted: 10 V (0.15...80 MHz) EN 55011: class B
MTTF [Years]	1844

Mechanical data

IF6044

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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

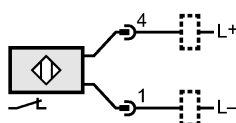
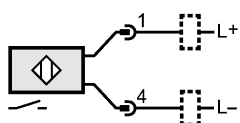
Displays / operating elements

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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