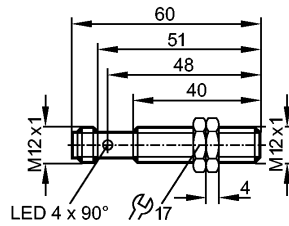


IF5934

IFK2004BFRKG/SC/2LED/US-104IRF

Inductive sensors



Product characteristics

Inductive sensor
Metal thread M12 x 1
Quick disconnect
Increased sensing range
Optical setting aid (2 LED)
gold-plated contacts
Sensing range 4 mm; [f] flush mountable

Electrical data

Electrical design	DC PNP/NPN
Operating voltage [V]	10...36 DC; cULus - Class 2 source required
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]	< 1
Current rating [mA]	100
Short-circuit protection	yes (non-latching)
Overload protection	yes
Switching frequency [Hz]	700

Monitoring range

Sensing range [mm]	4
Operating distance [mm]	0...3.25

Accuracy / deviations

Correction factors	mild steel = 1 / stainless steel approx. 0.7 / brass approx. 0.4 / aluminium approx. 0.37 / copper approx. 0.25
Hysteresis [% of Sr]	1...20

Environment

Ambient temperature [°C]	-25...70
Protection	IP 68; "Coolant"

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 61000-4-5 Surge: 0.5 kV (line to line, Ri: 20hm)
	EN 61000-4-6 HF conducted: 10 V
	EN 55011: class B

IF5934

IFK2004BFRKG/SC/2LED/US-104IRF

Inductive sensors

MTTF	[Years]	886
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Mechanical data

Mounting	flush mountable	
Housing materials	housing: brass safe-coated; active face: PBT safe-coated; lock nuts: brass safe-coated	
Weight	[kg]	0.042

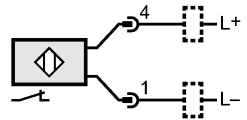
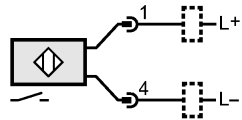
Displays / operating elements

Output status indication	LED	yellow (4 x 90°)
Setting aid	LED	red

Electrical connection

Connection	M12 connector	
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Wiring



Accessories

Accessories (included)	2 lock nuts; 2 tooth lock washers	
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Remarks

Pack quantity	[piece]	1
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