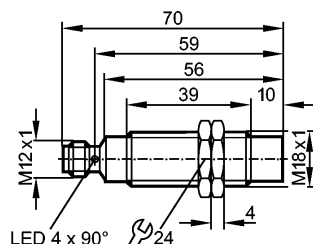


**IG5907**

IGK2012-FRKG/M/2LED/US-104-IRF

**Inductive sensors**



**Product characteristics**

Inductive sensor
Metal thread M18 x 1
Quick disconnect
Increased sensing range
Optical setting aid (2 LED)
Sensing range 12 mm; [nf] non-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]	300

**Monitoring range**

Sensing range [mm]	12
Real sensing range (Sr) [mm]	12 ± 10 %
Operating distance [mm]	0...9.7

**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
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
	EN 61000-4-3 HF radiated: 10 V/m
	EN 61000-4-4 Burst: 2 kV

**IG5907**

IGK2012-FRKG/M/2LED/US-104-IRF

**Inductive sensors**

	EN 61000-4-5 Surge:	0.5 kV
	EN 61000-4-6 HF conducted:	10 V
	EN 55011:	class B
MTTF	[Years]	1341

**Mechanical data**

Mounting	non-flush mountable
Housing materials	brass white bronze coated; active face: PBT orange
Weight	[kg] 0.055

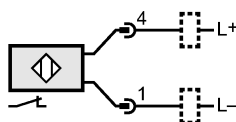
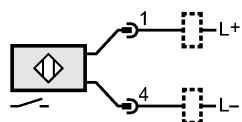
**Displays / operating elements**

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

**Electrical connection**

Connection	M12 connector; gold-plated contacts
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**Wiring**



**Accessories**

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

Pack quantity	[piece]	1
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