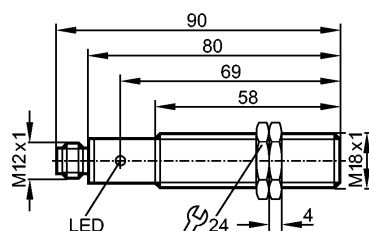


IG5806

IGA2005-FRKG/V4A/US-100-IRF/AU

Inductive sensors



Made in Germany

Product characteristics

Inductive sensor

Metal thread M18 x 1

Quick disconnect

gold-plated contacts

Sensing range 5 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] < 0.8

Current rating [mA] 400

Short-circuit protection Yes (non-latching)

Overload protection yes

Switching frequency [Hz] 700

Monitoring range

Sensing range [mm] 5

Real sensing range (Sr) [mm] 5 ± 10 %

Operating distance [mm] 0...4.05

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...80

Protection IP 67

Tests / approvals

EMC EN 60947-5-2
EN 55011: class B

MTTF [Years] 1835

Mechanical data

Mounting flush mountable



IG5806

IGA2005-FRKG/V4A/US-100-IRF/AU

Inductive sensors

Housing materials	stainless steel 316Ti / 1.4571; active face: PBT
Weight [kg]	0.069

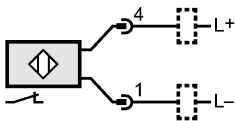
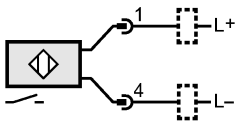
Displays / operating elements

Output status indication	LED	yellow
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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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