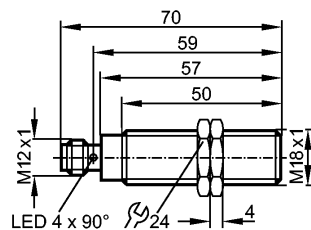


IG5595

IGA2005-FRKG/US

Inductive sensors



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; cULus - Class 2 source required
Current consumption [mA]	< 10
Protection class	II
Reverse polarity protection	yes

Outputs

Output function	normally open / closed programmable
Voltage drop [V]	< 2.5
Leakage current [mA]	< 0.5
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]	1...20
Switch-point drift [% of Sr]	-10...10

Environment

Ambient temperature [°C]	-25...70
Protection	IP 67

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

IG5595

IGA2005-FRKG/US

Inductive sensors

MTTF	[Years]	1778
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Mechanical data

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

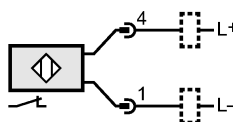
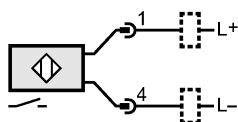
Displays / operating elements

Output status indication	LED	yellow (4 x 90°)
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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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