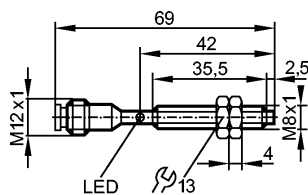


IE5298

IEA2002-FROG/US-100-IRF

Inductive sensors



Made in Germany

Product characteristics

Inductive sensor

Metal thread M8 x 1

Connector

Sensing range 2 mm; [nf] non-flush mountable

Electrical data

Electrical design DC PNP/NPN

Operating voltage [V] 5...36 DC

Reverse polarity protection no

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] 200

Short-circuit protection no

Overload protection no

Switching frequency [Hz] 2000

Range

Sensing range [mm] 2

 Real sensing range (Sr) [mm] $2 \pm 10\%$

Operating distance [mm] 0...1.6

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...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] 3338

Mechanical data

Mounting non-flush mountable

Housing materials Brass nickel-plated; PBT

Weight [kg] 0.025

IE5298

IEA2002-FROG/US-100-IRF

Inductive sensors

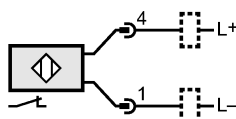
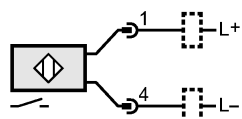
Displays / operating elements

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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