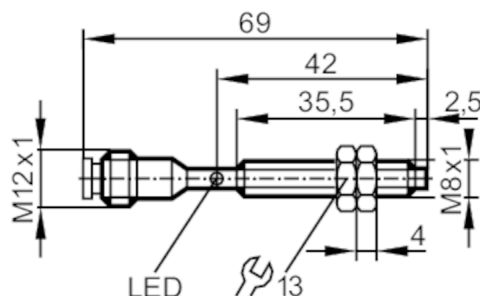


Inductive sensor

IEK2002-FRKG/US-104



Product characteristics

Electrical design	PNP/NPN
Output function	normally open / normally closed; (selectable)
Sensing range [mm]	2
Housing	threaded type
Dimensions [mm]	M8 x 1 / L = 69

Electrical data

Operating voltage [V]	5...36 DC
Protection class	III
Reverse polarity protection	no

Outputs

Electrical design	PNP/NPN
Output function	normally open / normally closed; (selectable)
Max. voltage drop switching output DC [V]	4.6
Minimum load current [mA]	4
Max. leakage current [mA]	0.8
Permanent current rating of switching output DC [mA]	200
Switching frequency DC [Hz]	2000
Short-circuit protection	no
Overload protection	no

Detection zone

Sensing range [mm]	2
Real sensing range S_r [mm]	$2 \pm 10 \%$
Operating distance [mm]	0...1.6

Accuracy / deviations

Correction factor	steel: 1 / stainless steel: 0.7 / brass: 0.4 / aluminium: 0.3 / copper: 0.2
Hysteresis [% of S_r]	1...15
Switch point drift [% of S_r]	-10...10

Operating conditions

Ambient temperature [°C]	-25...80
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IE5298



Inductive sensor

IEK2002-FRKG/US-104

Protection	IP 67
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Tests / approvals

EMC	EN 60947-5-2	
	EN 55011	class B
MTTF	[years]	2559

Mechanical data

Weight	[g]	23.7
Housing		threaded type
Mounting		non-flush mountable
Dimensions	[mm]	M8 x 1 / L = 69
Thread designation		M8 x 1
Materials		brass nickel-plated; PBT

Displays / operating elements

Display	switching status	1 x LED, yellow
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Accessories

Items supplied	lock nuts: 2
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Remarks

Pack quantity	1 pcs.
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Electrical connection - plug

Connector: 1 x M12; coding: A

