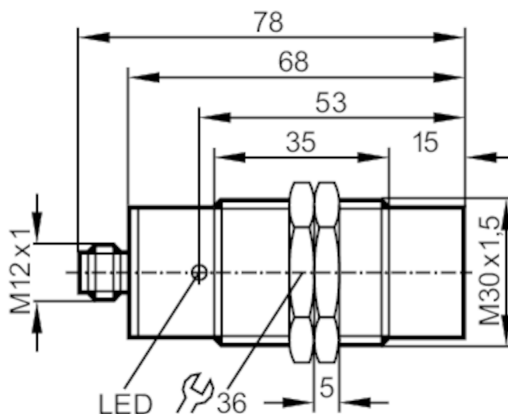




Inductive sensor

IIA2015-FRKG/US-100-IRF



Electrical data

Operating voltage	[V]	10...55 DC
Protection class		II
Reverse polarity protection		yes

Outputs

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]	0.5
Permanent current rating of switching output DC	[mA]	400
Switching frequency DC	[Hz]	200
Electrical design		PNP/NPN
Short-circuit protection		yes
Type of short-circuit protection		pulsed
Overload protection		yes

Detection zone

Sensing range	[mm]	15
Real sensing range S_r	[mm]	$15 \pm 10 \%$
Operating distance	[mm]	0...12.1

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
Protection		IP 67



Inductive sensor

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Tests / approvals

EMC	EN 60947-5-2	
	EN 55011	class B
MTTF [years]	1835	

Mechanical data

Weight [g]	143.6
Housing	threaded type
Mounting	non-flush mountable
Dimensions [mm]	M30 x 1.5 / L = 78
Thread designation	M30 x 1.5
Materials	brass white bronze coated; sensing face: PBT

Displays / operating elements

Display	switching status	1 x LED, yellow
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Accessories

Accessories (supplied)	lock nuts: 2
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Remarks

Pack quantity	1 pcs.
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Electrical connection - plug

Connector: 1 x M12



normally open

