

IF5759



Inductive sensor

IFA2002-FRKG/V4A/US-100-IRF RT



Electrical data

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

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]	0.5
Permanent current rating of switching output DC	[mA]	400
Switching frequency DC	[Hz]	1100
Short-circuit protection		yes
Type of short-circuit protection		pulsed
Overload protection		yes

Detection zone

Sensing range	[mm]	2
Real sensing range Sr	[mm]	2 ± 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 Sr]	1...15
Switch point drift	[% of Sr]	-10...10

Operating conditions

Ambient temperature	[°C]	-25...80
Protection		IP 67



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Tests / approvals

EMC	EN 60947-5-2	
	EN 55011	class B
MTTF	[years]	1815

Mechanical data

Weight	[g]	36.2
Housing		threaded type
Mounting		flush mountable
Dimensions	[mm]	M12 x 1 / L = 83
Thread designation		M12 x 1
Materials		stainless steel (1.4571/316Ti); sensing face: PBT

Displays / operating elements

Display	switching status	1 x LED, red
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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; Contacts: gold-plated



normally open

