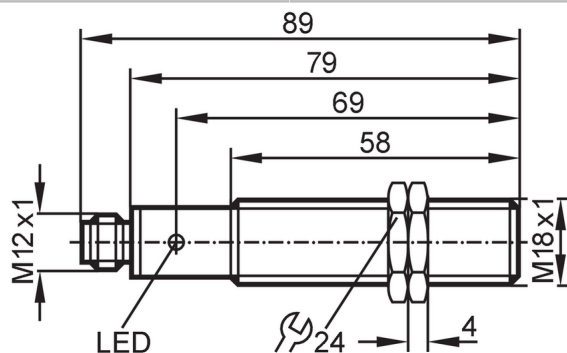




Inductive sensor

IGA2005-FRKG/US-100-IRF



Product characteristics

Electrical design	PNP/NPN
Output function	normally open / closed; (selectable)
Sensing range [mm]	5
Housing	Threaded type
Dimensions [mm]	M18 x 1 / L = 89

Electrical data

Operating voltage [V]	10...36 DC
Protection class	III
Reverse polarity protection	yes

Outputs

Electrical design	PNP/NPN
Output function	normally open / closed; (selectable)
Max. voltage drop switching output DC [V]	5.5
Minimum load current [mA]	4
Max. leakage current [mA]	0.8
Permanent current rating of switching output DC [mA]	250
Switching frequency DC [Hz]	100
Short-circuit protection	yes
Type of short-circuit protection	yes (non-latching)
Overload protection	yes

Monitoring range

Sensing range [mm]	5
Real sensing range S_r [mm]	$5 \pm 10\%$
Operating distance [mm]	0...4.05

Accuracy / deviations

Correction factor	steel: 1 / stainless steel: 0.7 / brass: 0.4 / aluminum: 0.4 / copper: 0.3
Hysteresis [% of S_r]	3...15
Switch-point drift [% of S_r]	-10...10

IG6062



Inductive sensor

IGA2005-FRKG/US-100-IRF

Operating conditions

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

Tests / approvals

EMC	EN 60947-5-2	
	EN 55011	class B
	VG95373	
	VDE0160	
MTTF	[years]	1483

Mechanical data

Weight	[g]	74.6
Housing		Threaded type
Mounting		flush mountable
Dimensions	[mm]	M18 x 1 / L = 89
Thread designation		M18 x 1
Material		housing: brass white bronze coated; sensing face: PC

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

