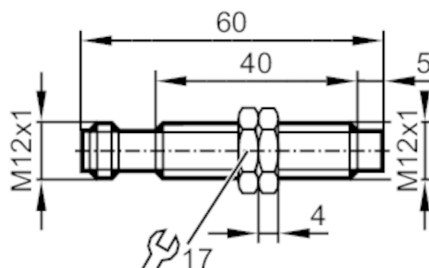


Inductive sensor

IFK3004-BPKG/US-100



Product characteristics

Electrical design	PNP
Output function	normally open
Sensing range [mm]	4
Housing	threaded type
Dimensions [mm]	M12 x 1 / L = 60

Application

Special feature	Gold-plated contacts
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Electrical data

Operating voltage [V]	10...30 DC
Current consumption [mA]	< 10
Protection class	II
Reverse polarity protection	no

Outputs

Electrical design	PNP
Output function	normally open
Max. voltage drop switching output DC [V]	1
Permanent current rating of switching output DC [mA]	200
Switching frequency DC [Hz]	300
Short-circuit protection	yes
Overload protection	yes

Detection zone

Sensing range [mm]	4
Real sensing range S_r [mm]	$4 \pm 10 \%$
Operating distance [mm]	0...3.24

Accuracy / deviations

Correction factor	steel: 1 / stainless steel: 0.7 / brass: 0.5 / aluminium: 0.4 / copper: 0.3
Hysteresis [% of S_r]	3...15
Switch point drift [% of S_r]	-10...10

Operating conditions

Ambient temperature [°C]	-25...80
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IF5493



Inductive sensor

IFK3004-BPKG/US-100

Protection	IP 67
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Tests / approvals

EMC	EN 60947-5-2	
	EN 55011	class B
MTTF [years]	1349	
Embedded software included	yes	

Mechanical data

Weight [g]	27.3
Housing	threaded type
Mounting	non-flush mountable
Dimensions [mm]	M12 x 1 / L = 60
Thread designation	M12 x 1
Materials	brass white bronze coated; sensing face: PBT orange; lock nuts: brass white bronze coated

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; Contacts: gold-plated



Connection

