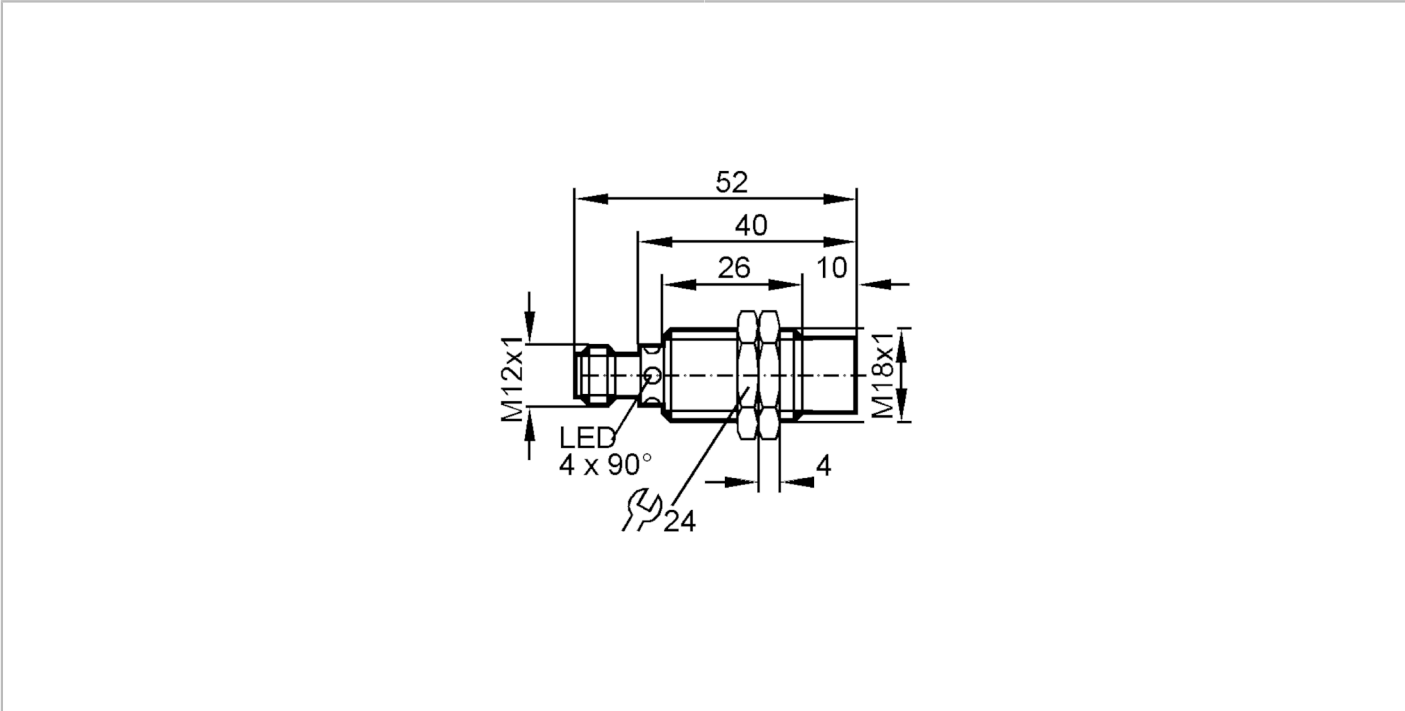




Inductive sensor

IGK3012UBPKG/K1/SC/US-104-DPS

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Product characteristics		
Electrical design		PNP
Output function		normally open
Sensing range	[mm]	12
Housing		threaded type
Dimensions	[mm]	M18 x 1
Application		
Special feature		Correction factor K = 1; Magnetic-field immune
Magnetic-field immune		yes
Electrical data		
Operating voltage	[V]	10...30 DC
Current consumption	[mA]	15; (24 V)
Protection class		II
Reverse polarity protection		yes
Outputs		
Electrical design		PNP
Output function		normally open
Max. voltage drop switching output DC	[V]	1.8
Permanent current rating of switching output DC	[mA]	200
Switching frequency DC	[Hz]	2000
Short-circuit protection		yes



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Type of short-circuit protection	pulsed
Overload protection	yes

Detection zone

Sensing range [mm]	12
Real sensing range S_r [mm]	$12 \pm 10 \%$
Operating distance [mm]	0...9.7

Accuracy / deviations

Correction factor	steel: 1 / stainless steel: 1.1 / brass: 1.1 / aluminium: 1.1 / copper: 1.1
Hysteresis [% of S_r]	3...15
Switch point drift [% of S_r]	-10...10
Correction factor $K = 1$	yes

Operating conditions

Ambient temperature [°C]	-25...70
Protection	IP 67

Tests / approvals

EMC	EN 60947-5-2	
	EN 55011	class B

Mechanical data

Housing	threaded type
Mounting	non-flush mountable
Dimensions [mm]	M18 x 1
Thread designation	M18 x 1
Materials	brass PTFE coated; PA 12-GF30; sensing face: PTFE coated

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



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Connection

