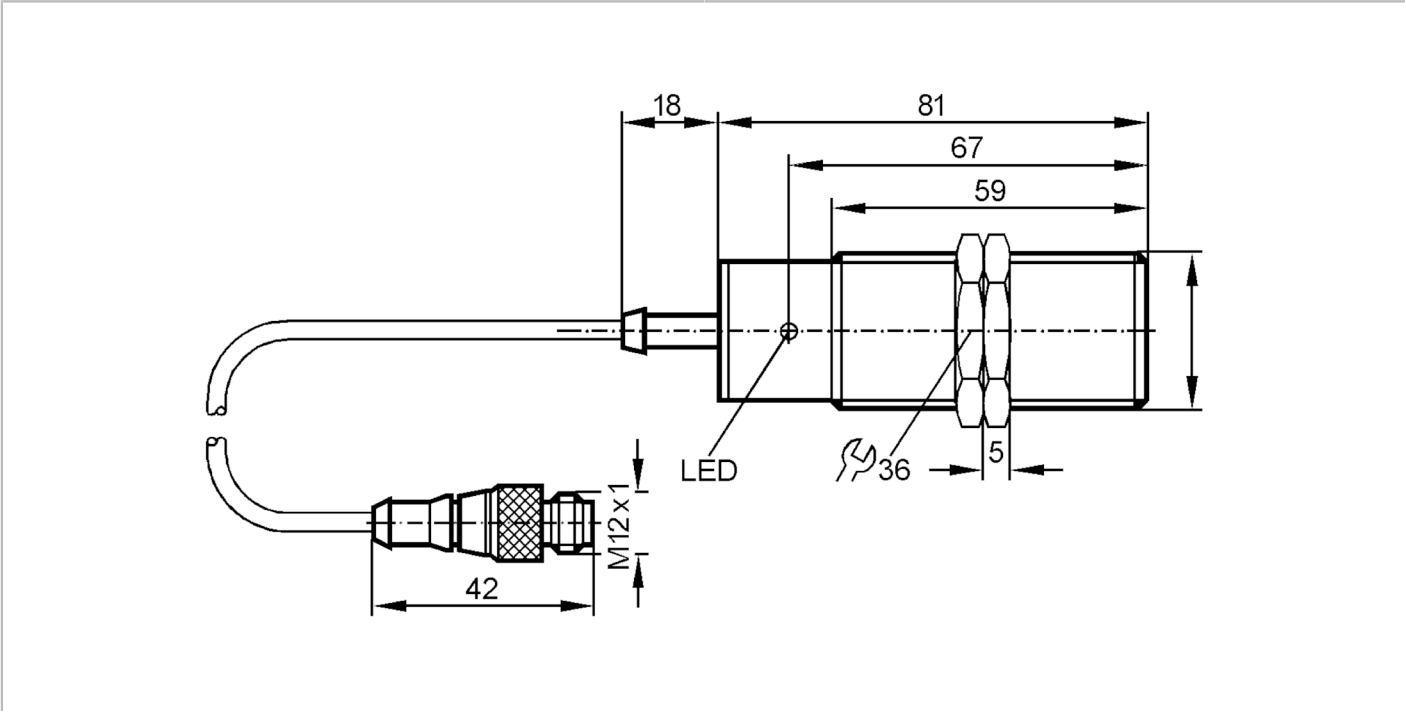




Inductive sensor

IIA2010-FRKG/5M/CONNECTEUR/M12

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Product characteristics		
Electrical design		PNP/NPN
Output function		normally open / closed; (selectable)
Sensing range	[mm]	10
Housing		Threaded type
Dimensions	[mm]	M30 x 1.5
Electrical data		
Operating voltage	[V]	10...55 DC
Protection class		II
Reverse polarity protection		yes
Outputs		
Electrical design		PNP/NPN
Output function		normally open / 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]	450
Short-circuit protection		yes
Type of short-circuit protection		yes (non-latching)



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Overload protection	yes
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Monitoring range

Sensing range	[mm]	10
Real sensing range S_r	[mm]	$10 \pm 10 \%$
Operating distance	[mm]	0...8.1

Accuracy / deviations

Correction factor	steel: 1 / stainless steel: 0.7 / brass: 0.4 / aluminum: 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

Tests / approvals

EMC	EN 60947-5-2	
	EN 55011	class B

Mechanical data

Housing	Threaded type	
Mounting	non-flush mountable	
Dimensions	[mm]	M30 x 1.5
Thread designation	M30 x 1.5	
Material	brass nickel-plated; PBT	

Displays / operating elements

Display	Switching status	1 x LED, yellow
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Remarks

Pack quantity	1 pcs.
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Electrical connection - plug

Cable: 5 m, PUR

Connector: 1 x M12; coding: A



XC0012



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Connection

