II5147

Inductive sensor

IIA2010SFROG/V4A/ 6m

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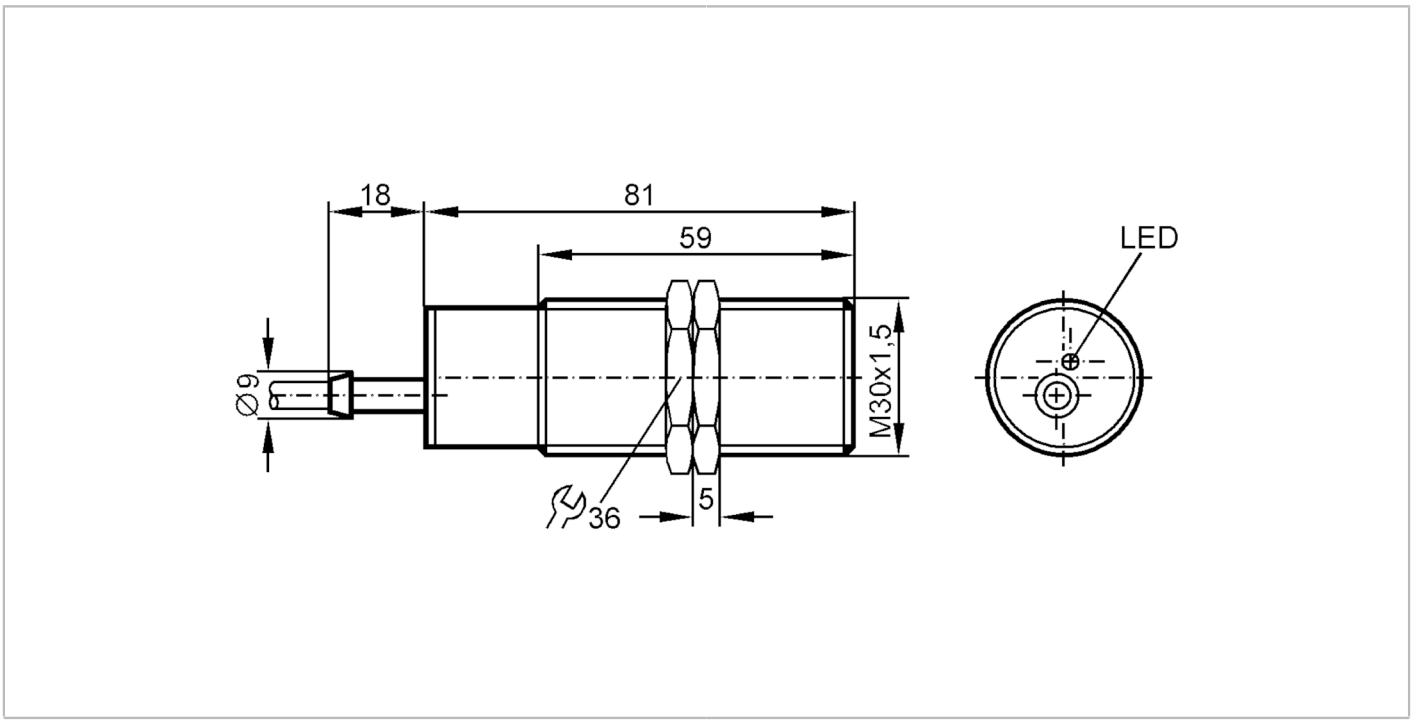

Product characteristics		
Electrical design		PNP; (Self-monitoring system)
Output function		normally open / closed; (selectable)
Sensing range	[mm]	10
Housing		Threaded type
Dimensions	[mm]	M30 x 1.5
Electrical data		
Connection at circuit amplifier		yes
Switching amplifiers		Connection to F400 control monitor or as 2-wire DC DNP
Operating voltage	[V]	10...36 DC
Reverse polarity protection		no
Outputs		
Electrical design		PNP; (Self-monitoring system)
Output function		normally open / closed; (selectable)
Max. voltage drop switching output DC	[V]	6.5
Minimum load current	[mA]	5
Max. leakage current	[mA]	1.5
Permanent current rating of switching output DC	[mA]	100
Switching frequency DC	[Hz]	30
Short-circuit protection		no
Overload protection		no

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Monitoring range			
Sensing range	[mm]	10	
Real sensing range Sr	[mm]	10 ± 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 Sr]	1...15	
Switch-point drift	[% of Sr]	-10...10	
Operating conditions			
Ambient temperature	[°C]	-25...80	
Protection		IP 67	
Tests / approvals			
EMC		IEC 801-2	level 4
		IEC 801-3	level 3
		IEC 801-4	level 4
		IEC 801-5	level 2
Mechanical data			
Housing		Threaded type	
Mounting		flush mountable	
Dimensions	[mm]	M30 x 1.5	
Thread designation		M30 x 1.5	
Material		stainless steel (1.4571/316Ti); PBT	
Displays / operating elements			
Display		Switching status	1 x LED, yellow
Accessories			
Items supplied		lock nuts: 2	
Remarks			
Pack quantity		1 pcs.	

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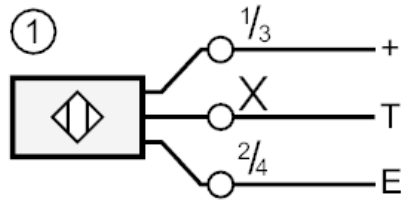
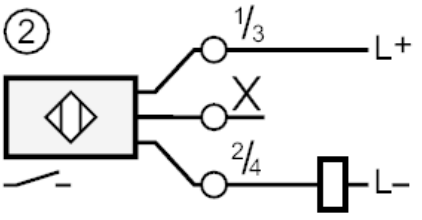
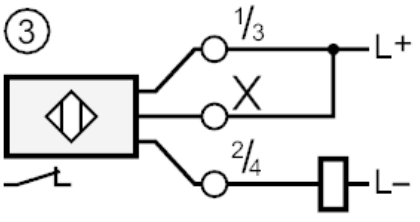
Electrical connection

Cable: 6 m, PVC; 3 x 0.5 mm²

Connection







1 =	connection to F400
2 =	Connection 2-wire DC
3 =	Connection 2-wire DC
	Core colors :
BK =	black
BN =	brown
BU =	blue