II5092

Inductive sensor

IIA2010SFROG/10m

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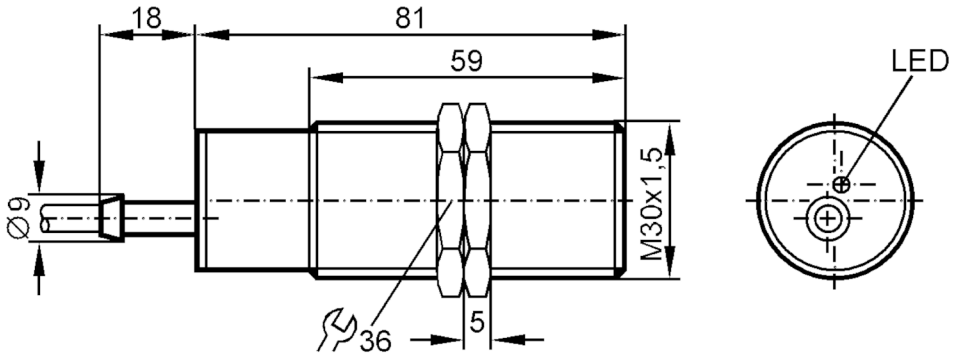

CE

Product characteristics		
Electrical design		PNP; (self-monitoring system)
Output function		normally open / normally closed; (selectable)
Sensing range	[mm]	10
Housing		threaded type
Dimensions	[mm]	M30 x 1.5
Electrical data		
Connection to switching amplifiers		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 / normally 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

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Overload protection			no
Detection zone			
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 / aluminium: 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
Materials			brass nickel-plated; 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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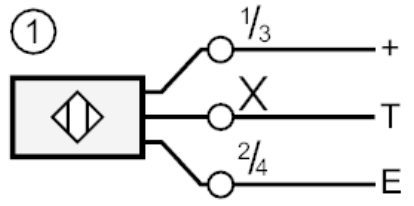
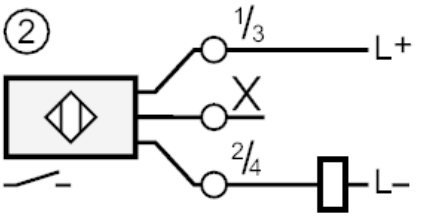
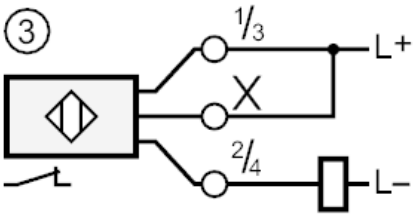
Electrical connection

Cable: 10 m, PVC; 3 x 0.5 mm²

Connection







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