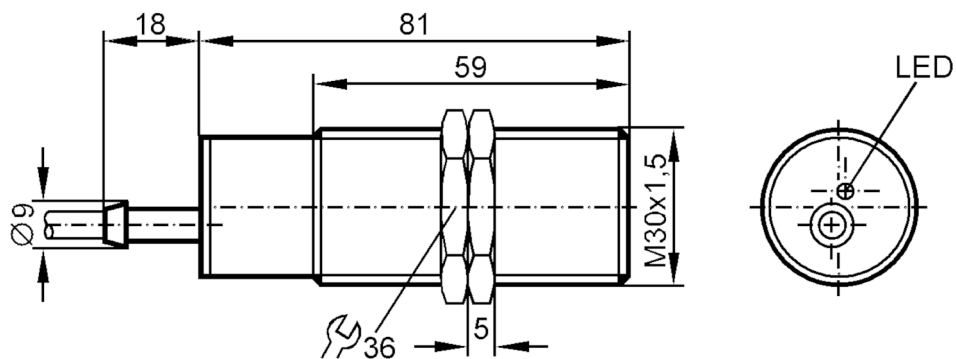




Inductive sensor

IIA2010SFROG/20m

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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
Protection class	II
Reverse polarity protection	no

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Inductive sensor

IIA2010SFROG/20m

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	
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 2
	IEC 801-4	level 3
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		
Accessories (supplied)	lock nuts: 2	
Remarks		
Pack quantity	1 pcs.	

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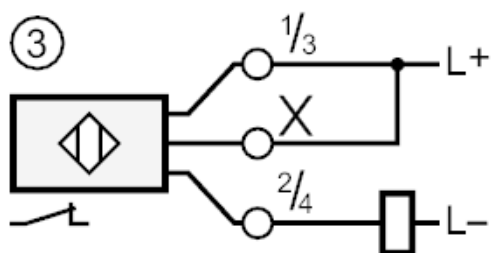
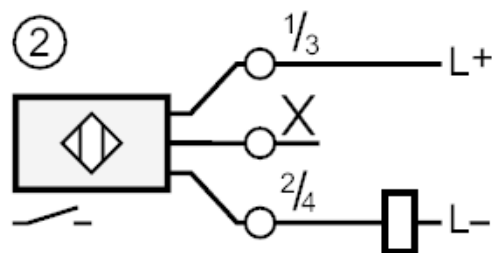
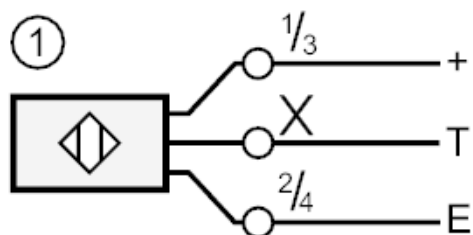
Inductive sensor

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Electrical connection

Cable: 20 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

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