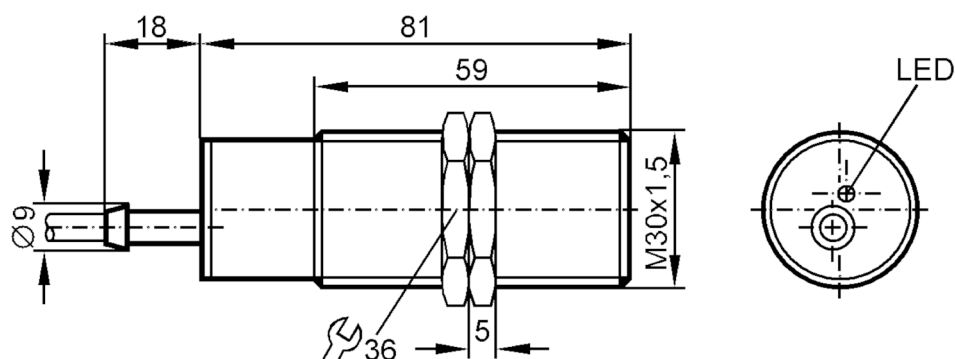




Inductive sensor

IIA2010SFROG/20m

Article no longer available - archive entry



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
Protection class	II
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



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Overload protection	no	
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 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	
Material	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.	



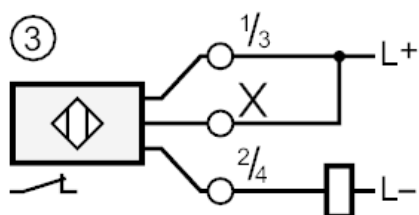
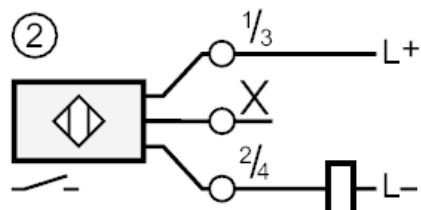
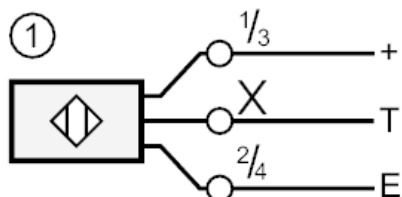
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Electrical connection

Cable: 20 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