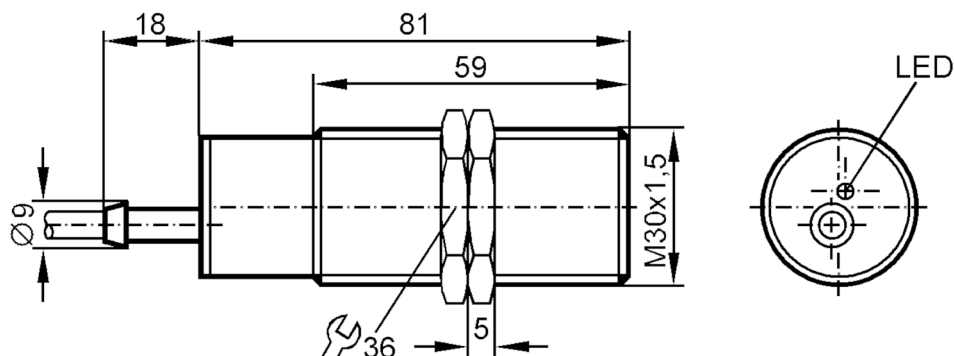




## Inductive sensor

IIA2010SFROG/10m

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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
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
Overload protection	no

# II5092



## Inductive sensor

IIA2010SFROG/10m

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		
Accessories (supplied)		lock nuts: 2
Remarks		
Pack quantity		1 pcs.

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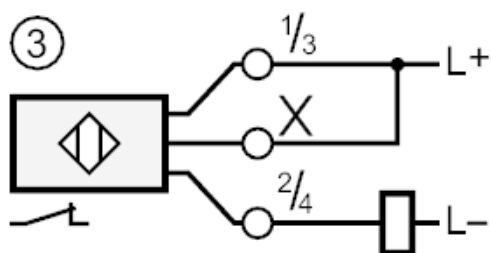
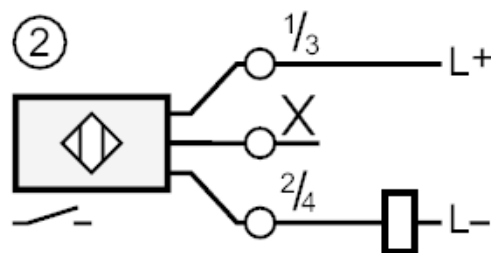
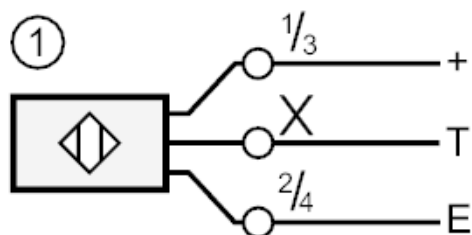
## Inductive sensor

IIA2010SFROG/10m

### Electrical connection

Cable: 10 m, PVC; 3 x 0.5 mm<sup>2</sup>

### 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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