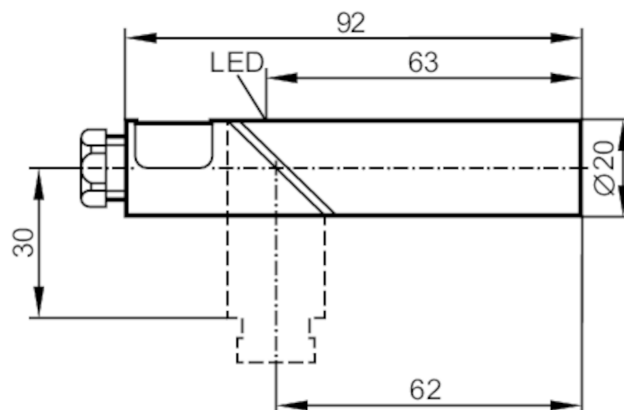


## Inductive sensor

IAE2010SFROG

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## Product characteristics

Electrical design	PNP; (self-monitoring system)
Output function	normally open / normally closed; (selectable)
Sensing range [mm]	10
Housing	cylindrical
Dimensions [mm]	Ø 20 / L = 92

## 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

## Outputs

Electrical design	PNP; (self-monitoring system)
Output function	normally open / normally closed; (selectable)
Max. voltage drop switching output DC [V]	8.5
Minimum load current [mA]	5
Max. leakage current [mA]	0.8
Permanent current rating of switching output DC [mA]	100
Switching frequency DC [Hz]	70
Short-circuit protection	no
Overload protection	no

## Detection zone

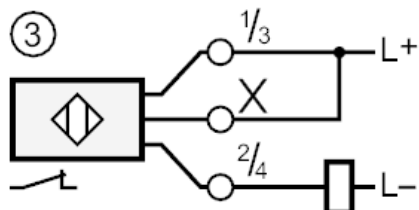
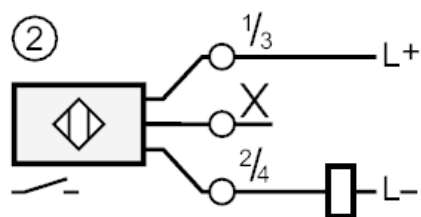
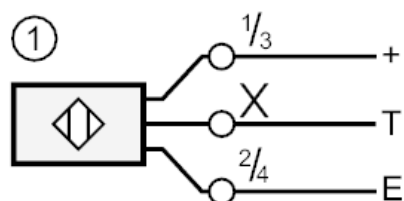
Sensing range [mm]	10
Real sensing range Sr [mm]	10 ± 10 %
Operating distance [mm]	0...8.1



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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 65
Mechanical data		
Housing		cylindrical
Mounting		non-flush mountable
Dimensions	[mm]	Ø 20 / L = 92
Materials		PBT; LED window: PC
Displays / operating elements		
Display	switching status	1 x LED, yellow
Accessories		
Items supplied		Mounting clamps: 1
Remarks		
Pack quantity		1 pcs.
Electrical connection		
terminals: ...2.5 mm <sup>2</sup>		
Connection		



- 1 = connection to F400  
 2 = Connection 2-wire DC  
 3 = Connection 2-wire DC