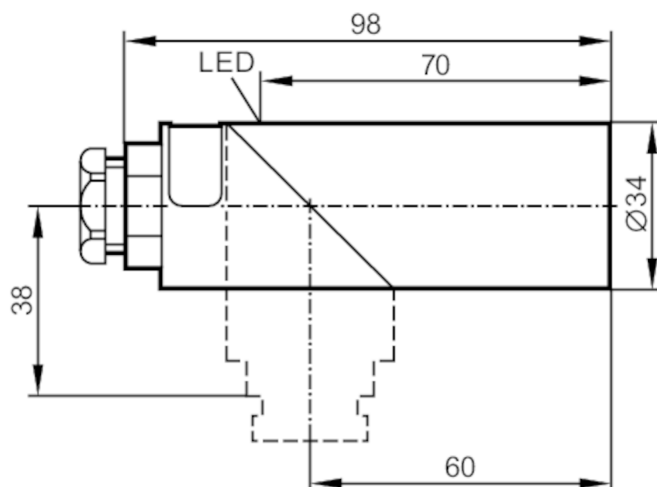




Inductive sensor

IBE2020SFROG

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Product characteristics

Electrical design	PNP; (Self-monitoring system)
Output function	normally open / closed; (selectable)
Sensing range [mm]	20
Housing	tubular
Dimensions [mm]	Ø 34 / L = 98

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
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]	20
Short-circuit protection	no
Overload protection	no

Monitoring range

Sensing range [mm]	20
Real sensing range S_r [mm]	$20 \pm 10 \%$
Operating distance [mm]	0...16.2

Accuracy / deviations

Correction factor	steel: 1 / stainless steel: 0.7 / brass: 0.4 / aluminum: 0.3 / copper: 0.2
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Hysteresis	[% of Sr]	1...15
Switch-point drift	[% of Sr]	-10...10

Operating conditions

Ambient temperature	[°C]	-25...80
Protection		IP 65

Tests / approvals

EMC	EN 60947-5-2	
	EN 55011	class B

Mechanical data

Housing		tubular
Mounting		non-flush mountable
Dimensions	[mm]	Ø 34 / L = 98
Material		PBT; end cap: PC

Displays / operating elements

Display	Switching status	1 x LED, yellow
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Accessories

Items supplied		Mounting clamp: 1
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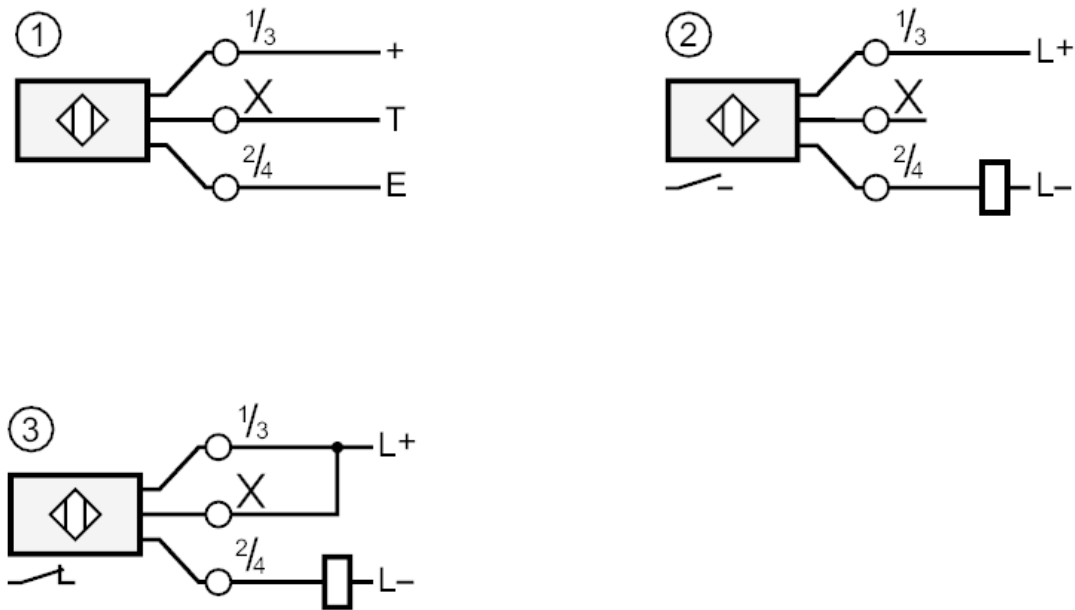
Remarks

Pack quantity		1 pcs.
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Electrical connection

terminals: ...2.5 mm²

Connection



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