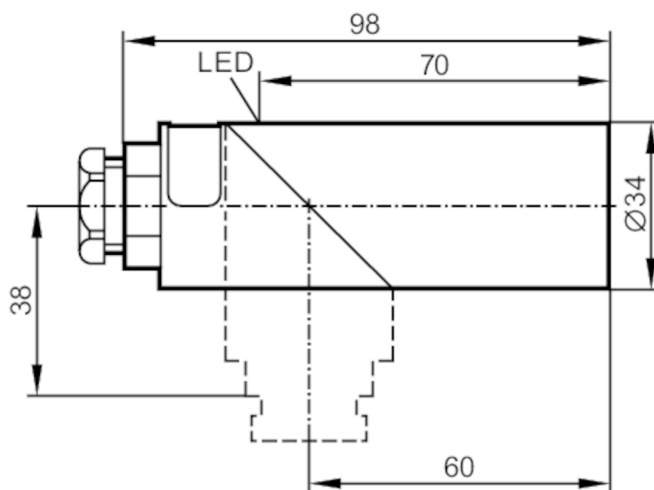




Inductive sensor

IBE3020-FPOG

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Product characteristics

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

Electrical data

Operating voltage [V]	10...55 DC
Current consumption [mA]	7; (24 V)
Reverse polarity protection	no

Outputs

Electrical design	PNP
Output function	normally open / normally closed; (selectable)
Max. voltage drop switching output DC [V]	1
Permanent current rating of switching output DC [mA]	400
Switching frequency DC [Hz]	40
Short-circuit protection	no
Overload protection	no

Detection zone

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: 0.85 / brass: 0.54 / aluminium: 0.5 / copper: 0.46
Hysteresis [% of S_r]	3...15
Switch point drift [% of S_r]	-10...10

IB5109



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Operating conditions

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

Tests / approvals

EMC	EN 60947-5-2	
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Mechanical data

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

Displays / operating elements

Display	switching status	1 x LED, yellow
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Accessories

Items supplied		Mounting clamps: 1
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Remarks

Pack quantity		1 pcs.
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Electrical connection

terminals: ...2.5 mm²

Connection

