



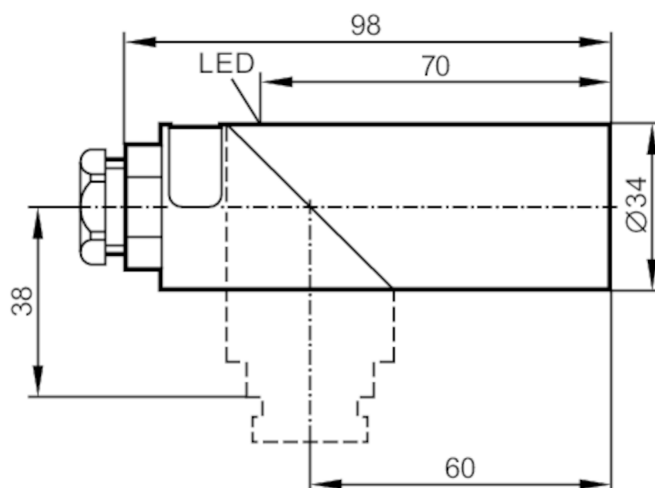
Inductive sensor

IBE3020-FNKG

Article no longer available - archive entry

Alternative articles: IB5124

When selecting an alternative article and accessories please note that technical data may differ!



Product characteristics

Electrical design	NPN
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...36 DC
Current consumption [mA]	15; (24 V)
Protection class	II
Reverse polarity protection	yes

Outputs

Electrical design	NPN
Output function	normally open / normally closed; (selectable)
Max. voltage drop switching output DC [V]	2.5
Permanent current rating of switching output DC [mA]	250
Switching frequency DC [Hz]	350
Short-circuit protection	yes
Type of short-circuit protection	pulsed
Overload protection	yes

Detection zone

Sensing range [mm]	20
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Inductive sensor

IBE3020-FNKG

Real sensing range S_r	[mm]	20 ± 10 %
Operating distance	[mm]	0...16.2

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

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

Tests / approvals		
EMC	EN 60947-5-2	

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

Accessories		
Items supplied		Mounting clamps: 1

Remarks		
Pack quantity		1 pcs.

Electrical connection

terminals: ...2.5 mm²; Cable sheath: Ø 7...13 mm

Connection

