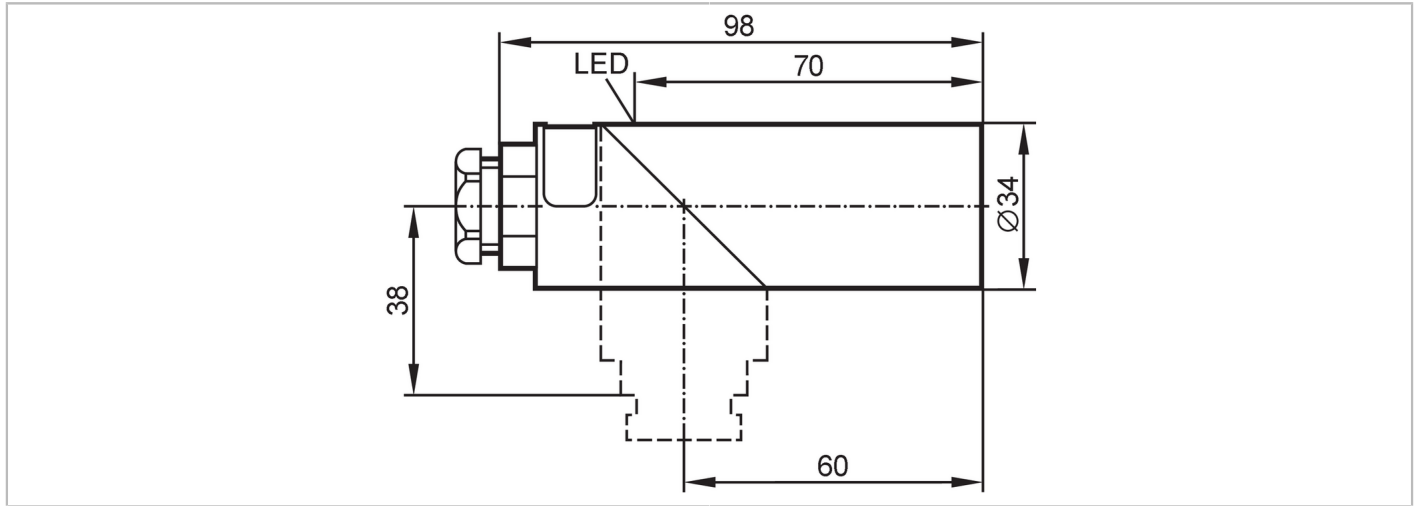


# IB5124



## Inductive sensor

IBE2020-FRKG



### Product characteristics

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

### Application

Application	Industrial applications
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### Electrical data

Operating voltage [V]	10...55 DC
Protection class	II
Reverse polarity protection	yes

### Outputs

Electrical design	PNP/NPN
Output function	normally open / closed; (selectable)
Max. voltage drop switching output DC [V]	4.6
Minimum load current [mA]	4
Max. leakage current [mA]	1
Permanent current rating of switching output DC [mA]	300
Switching frequency DC [Hz]	300
Short-circuit protection	yes
Type of short-circuit protection	yes (non-latching)
Overload protection	yes

### Monitoring range

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

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Accuracy / deviations		
Correction factor	steel: 1 / stainless steel: 0.7 / brass: 0.4 / aluminum: 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	
Tests / approvals		
EMC	EN 60947-5-2	
	EN 55011	class B
MTTF [years]	1647	
UL approval	Ta	0...40 °C
	Enclosure type	Type 1
	File number UL	E174191
Mechanical data		
Weight [g]	183	
Housing	tubular	
Mounting	non-flush mountable	
Dimensions [mm]	Ø 34 / L = 98	
Material	housing: PBT; bevelled housing part: PC	
Displays / operating elements		
Display	Switching status	1 x LED, yellow
Accessories		
Items supplied	Mounting clamp: 1	
Remarks		
Pack quantity	1 pcs.	
Electrical connection		
terminals: ...2.5 mm <sup>2</sup> ; Cable sheath: Ø 7...13 mm; Cable gland: M20 X 1.5		
Connection		

