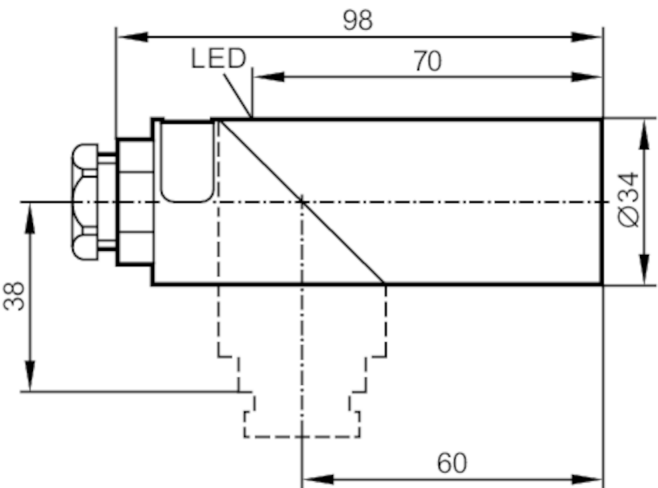


IB5124



Inductive sensor

IBE2020-FRKG



Product characteristics

Electrical design	PNP/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...55 DC
Protection class	II
Reverse polarity protection	yes

Outputs

Electrical design	PNP/NPN
Output function	normally open / normally 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	pulsed
Overload protection	yes

Detection zone

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



Inductive sensor

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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		
Tests / approvals				
EMC		EN 60947-5-2		
		EN 55011	class B	
MTTF		[years]	1647	
UL approval		Ta		0...40 °C
		Enclosure type		Type 1
		power supply		Hazardous voltage
		File number UL		E174191
Mechanical data				
Weight		[g]	183	
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; Cable gland: M20 X 1.5				
Connection				

