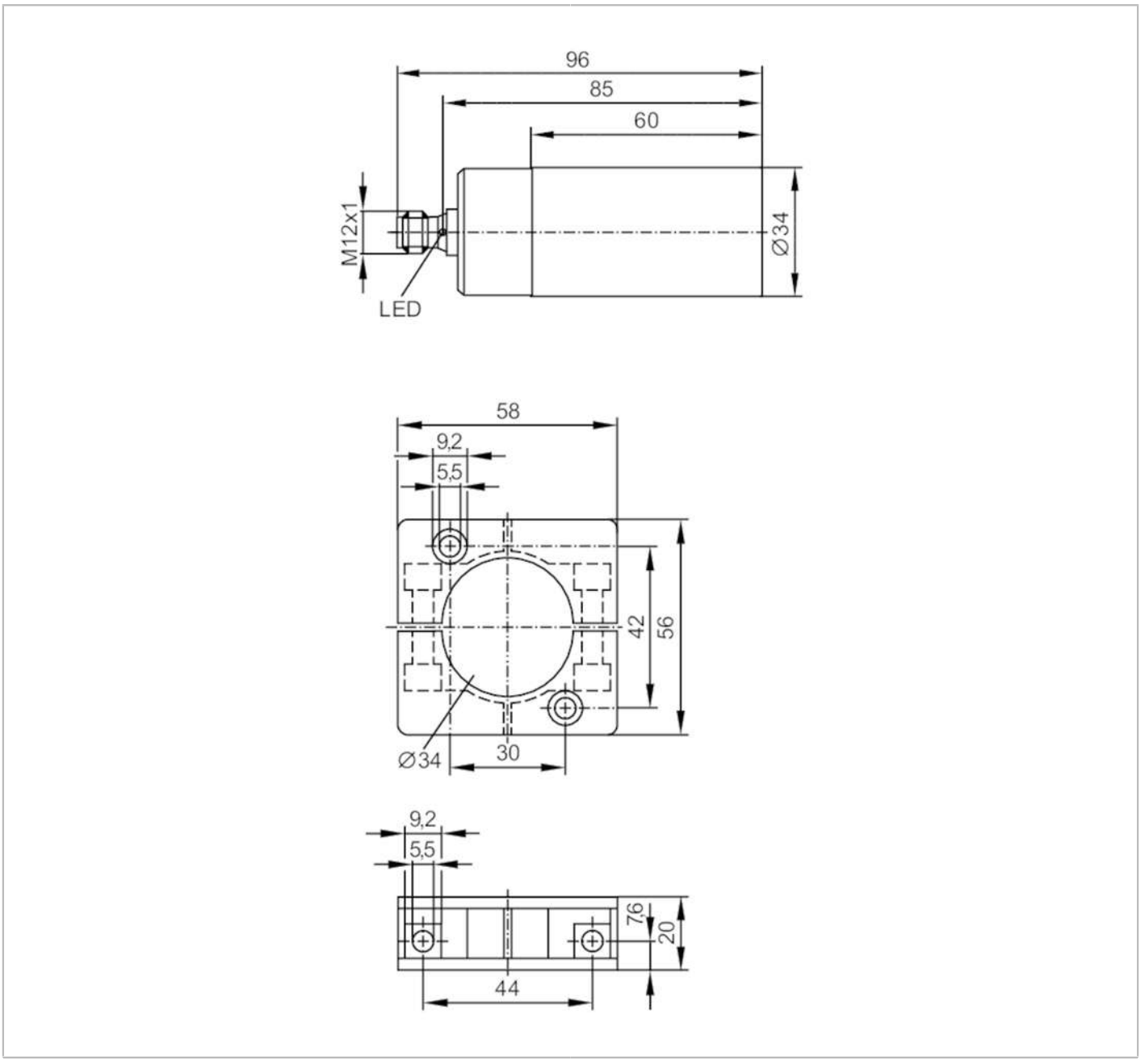
IB5171

Inductive sensor

IB-4030-CPKG/US



Product characteristics		
Electrical design		PNP
Output function		complementary
Sensing range	[mm]	30
Housing		cylindrical
Dimensions	[mm]	Ø 34 / L = 96
Application		
Special feature		Gold-plated contacts
Electrical data		
Operating voltage	[V]	10...30 DC

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Current consumption	[mA]	< 15	
Protection class		II	
Reverse polarity protection		yes	
Outputs			
Electrical design		PNP	
Output function		complementary	
Max. voltage drop switching output DC	[V]	2.5	
Permanent current rating of switching output DC	[mA]	200	
Switching frequency DC	[Hz]	350	
Short-circuit protection		yes	
Type of short-circuit protection		pulsed	
Overload protection		yes	
Detection zone			
Sensing range	[mm]	30	
Real sensing range Sr	[mm]	30 ± 10 %	
Operating distance	[mm]	0...24.3	
Accuracy / deviations			
Correction factor		steel: 1 / stainless steel: 0.7 / brass: 0.4 / aluminium: 0.4 / copper: 0.3	
Hysteresis	[% of Sr]	3...15	
Switch point drift	[% of Sr]	-10...10	
Operating conditions			
Ambient temperature	[°C]	-25...80	
Protection		IP 67	
Tests / approvals			
EMC		EN 60947-5-2	
		EN 61000-4-2 ESD	4 kV CD / 8 kV AD
		EN 61000-4-3 HF radiated	10 V/m
		EN 61000-4-4 Burst	2 kV
		EN 61000-4-5 Surge	0,5 kV line to line, Ri: 2 Ohm
		EN 61000-4-6 HF conducted	10 V
		EN 55011	class B
MTTF	[years]	1334	
Mechanical data			
Weight	[g]	247	
Housing		cylindrical	
Mounting		non-flush mountable	
Dimensions	[mm]	Ø 34 / L = 96	
Materials		housing: PBT; sensing face: PBT orange; clamp: PBT black	
Displays / operating elements			
Display		switching status	1 x LED, yellow
Accessories			
Items supplied		Mounting clamps: 1	

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Remarks

Pack quantity	1 pcs.

Electrical connection - plug

Connector: 1 x M12; coding: A; Locking: brass, white bronze coated; Contacts: gold-plated



Connection

