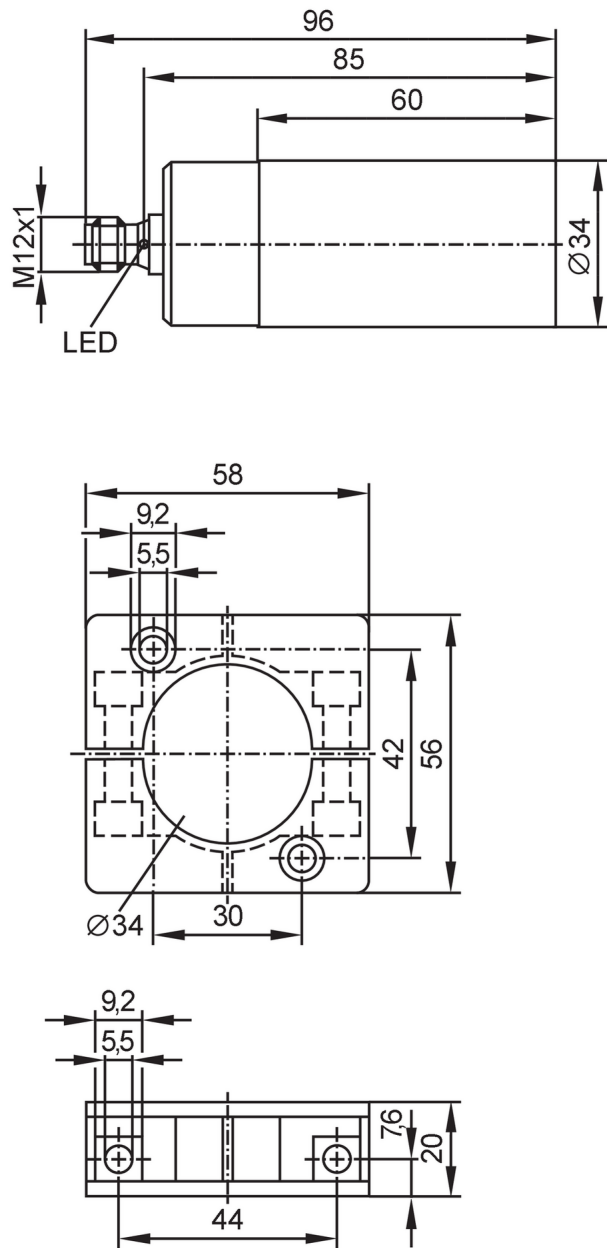


IB5171

Inductive sensor

IB-4030-CPKG/US



Product characteristics

Electrical design	PNP
Output function	complementary
Sensing range [mm]	30
Housing	tubular
Dimensions [mm]	Ø 34 / L = 96

Application

Special feature	gold-plated contacts
Application	Industrial applications

Electrical data

Operating voltage [V]	10...30 DC
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Inductive sensor

IB-4030-CPKG/US

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		yes (non-latching)
Overload protection		yes

Monitoring range

Sensing range	[mm]	30
Real sensing range S_r	[mm]	$30 \pm 10 \%$
Operating distance	[mm]	0...24.3

Accuracy / deviations

Correction factor		steel: 1 / stainless steel: 0.7 / brass: 0.4 / aluminum: 0.4 / copper: 0.3
Hysteresis	[% of S_r]	3...15
Switch-point drift	[% of S_r]	-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, R_i : 2 Ohm
	EN 61000-4-6 HF conducted	10 V
	EN 55011	class B
MTTF	[years]	1334

Mechanical data

Weight	[g]	247
Housing		tubular
Mounting		non-flush mountable
Dimensions	[mm]	$\varnothing 34$ / $L = 96$
Material		housing: PBT; sensing face: PBT orange; clamp: PBT black

Displays / operating elements

Display	Switching status	1 x LED, yellow
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Accessories

Items supplied		Mounting clamp: 1
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Remarks

Pack quantity 1 pcs.

Electrical connection - plug

Connector: 1 x M12; coding: A; Contacts: 4, gold-plated; Locking: brass, white bronze coated



Connection

