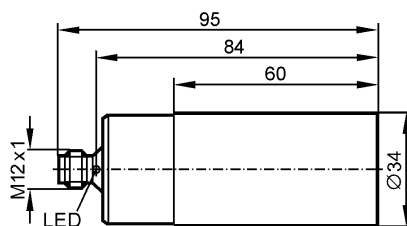


IB5171

IB-4030-CPKG/US

Inductive sensors



Made in Germany

Product characteristics

Inductive sensor

Plastic housing Ø 34 mm

Connector

Sensing range 30 mm; [nf] non-flush mountable

Electrical data

Electrical design	DC PNP
Operating voltage [V]	10...30 DC
Current consumption [mA]	< 15
Protection class	II
Reverse polarity protection	yes

Outputs

Output function	complementary
Voltage drop [V]	< 2.5
Current rating [mA]	200
Short-circuit protection	pulsed
Overload protection	yes
Switching frequency [Hz]	350

Range

Sensing range [mm]	30
Real sensing range (Sr) [mm]	30 ± 10 %
Operating distance [mm]	0...24.3

Accuracy / deviations

Correction factors	mild steel = 1 / stainless steel approx. 0.7 / brass approx. 0.4 / Al approx. 0.4 / Cu approx. 0.3
Hysteresis [% of Sr]	3...15
Switch-point drift [% of Sr]	-10...10

Environment

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
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IB5171

IB-4030-CPKG/US

Inductive sensors

	EN 61000-4-3 HF radiated: 10 V/m (80...2000 MHz) EN 61000-4-4 Burst: 2 kV EN 61000-4-5 Surge: 0.5 kV (line to line, Ri: 20hm) EN 61000-4-6 HF conducted: 10 V (0.15...80 MHz) EN 55011: class B
MTTF	[Years] 1334

Mechanical data

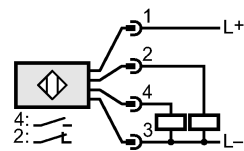
Mounting	non-flush mountable
Housing materials	PBT; connector housing: Brass PTFE-coated
Weight	[kg] 0.246

Displays / operating elements

Output status indication	LED yellow
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Electrical connection

Connection	M12 connector
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Wiring

Accessories

Accessories (included)	Mounting clamp
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Remarks

Pack quantity	[piece] 1
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