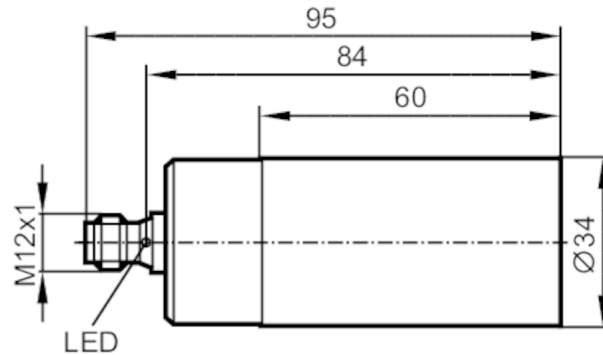


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Inductive sensor

IB-4030-CPKG/US



Product characteristics

Electrical design		PNP
Output function		complementary
Sensing range	[mm]	30
Housing		cylindrical
Dimensions	[mm]	Ø 34 / L = 95

Electrical data

Operating voltage	[V]	10...30 DC
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

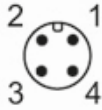
Correction factor		steel: 1 / stainless steel: 0.7 / brass: 0.4 / aluminium: 0.4 / copper: 0.3
Hysteresis	[% of Sr]	3...15
Switch point drift	[% of Sr]	-10...10

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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 = 95
Materials		PBT; connector housing: brass PTFE coated
Displays / operating elements		
Display	switching status	1 x LED, yellow
Accessories		
Accessories (supplied)		Mounting clamps: 1
Remarks		
Pack quantity		1 pcs.
Electrical connection - plug		
Connector: 1 x M12		
		

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Connection

