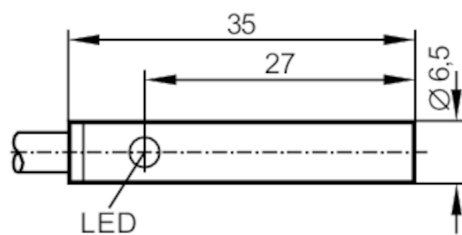


Inductive sensor

ITB3001-BPKG



Product characteristics

Electrical design	PNP
Output function	normally open
Sensing range [mm]	1
Housing	cylindrical
Dimensions [mm]	Ø 6.5 / L = 35

Electrical data

Operating voltage [V]	10...36 DC
Current consumption [mA]	15; (24 V)
Protection class	III
Reverse polarity protection	yes

Outputs

Electrical design	PNP
Output function	normally open
Max. voltage drop switching output DC [V]	2.5
Permanent current rating of switching output DC [mA]	200
Switching frequency DC [Hz]	900
Short-circuit protection	yes
Overload protection	yes

Detection zone

Sensing range [mm]	1
Real sensing range S_r [mm]	$1 \pm 10\%$
Operating distance [mm]	0...0.8

Accuracy / deviations

Correction factor	steel: 1 / stainless steel: 0.7 / brass: 0.4 / aluminium: 0.3 / copper: 0.2
Hysteresis [% of S_r]	1...15
Switch point drift [% of S_r]	-10...10

Operating conditions

Ambient temperature [°C]	-25...80
Protection	IP 67

IT5001



Inductive sensor

ITB3001-BPKG

Tests / approvals		
EMC	EN 61000-4-2 ESD	4 kV CD / 8 kV AD
	EN 61000-4-3 HF radiated	3 V/m
	EN 61000-4-4 Burst	2 kV
	EN 61000-4-6 HF conducted	3 V
	EN 55011	class B
MTTF	[years]	2804

Mechanical data		
Weight	[g]	49.5
Housing		cylindrical
Mounting		flush mountable
Dimensions	[mm]	Ø 6.5 / L = 35
Materials		brass white bronze coated; sensing face: PBT

Displays / operating elements		
Display	switching status	1 x LED, yellow

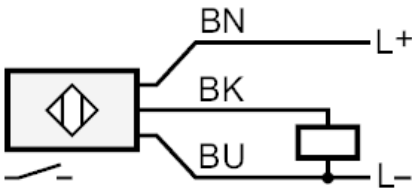
Accessories		
Items supplied		Mounting clamps: 1

Remarks		
Pack quantity		1 pcs.

Electrical connection		
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Cable: 2 m, PVC; 3 x 0.14 mm²

Connection		
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BN =	Core colours :
BU =	brown
BK =	blue
	black