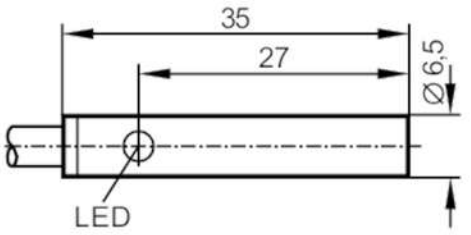
IT5001

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 Sr	[mm]	1 ± 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 Sr]	1...15
Switch point drift	[% of Sr]	-10...10
Operating conditions		
Ambient temperature	[°C]	-25...80
Protection		IP 67

IT5001

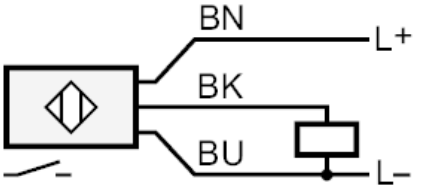
Inductive sensor

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			

Cable: 2 m, PVC; 3 x 0.14 mm²

Connection



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