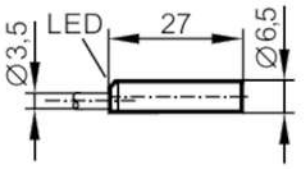
IT5042

Inductive sensor

ITB3002BBPKG/V4A/2M



Product characteristics		
Electrical design		PNP
Output function		normally open
Sensing range	[mm]	2
Housing		cylindrical
Dimensions	[mm]	Ø 6.5 / L = 27
Electrical data		
Operating voltage	[V]	10...30 DC
Current consumption	[mA]	< 15
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]	100
Switching frequency DC	[Hz]	1500
Short-circuit protection		yes
Type of short-circuit protection		pulsed
Overload protection		yes
Detection zone		
Sensing range	[mm]	2
Real sensing range Sr	[mm]	2 ± 10 %
Operating distance	[mm]	0...1.62
Accuracy / deviations		
Correction factor		steel: 1 / stainless steel: 0.7 / brass: 0.5 / aluminium: 0.4 / copper: 0.3
Hysteresis	[% of Sr]	1...15
Operating conditions		
Ambient temperature	[°C]	-20...70
Protection		IP 67
Tests / approvals		
EMC		EN 60947-5-2
MTTF	[years]	3408

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UL approval		Ta	-20...70 °C
		Enclosure type	Type 1
		power supply	Class 2
		File number UL	E174191

Mechanical data		
Weight	[g]	44.3
Housing		cylindrical
Mounting		flush mountable
Dimensions	[mm]	Ø 6.5 / L = 27
Materials		stainless steel; LCP

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

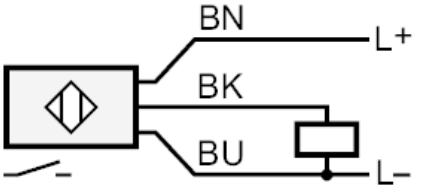
Accessories	
Items supplied	Mounting clamps: 1

Remarks	
Pack quantity	1 pcs.

Electrical connection

Cable: 2 m, PUR; 3 x 0.14 mm²

Connection



	Core colours
BN	brown
BK	black
BU	blue