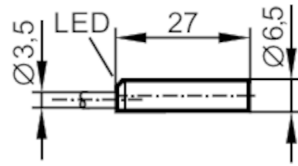


IT5042



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

IT5042



Inductive sensor

ITB3002BBPKG/V4A/2M

Tests / approvals		
EMC		EN 60947-5-2
MTTF	[years]	3408
UL approval	Ta	-20...70 °C
	Enclosure type	Type 1
	voltage supply	Class 2
	File number UL	E174191

Mechanical data		
Weight	[g]	44.5
Housing		cylindrical
Mounting		flush mountable
Dimensions	[mm]	Ø 6.5 / L = 27
Materials		stainless steel; LCP

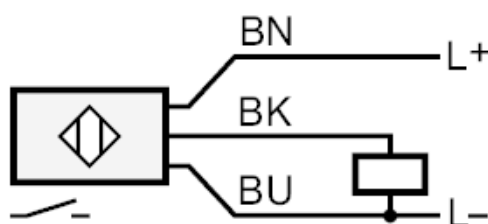
Displays / operating elements		
Display	switching status	1 x LED, yellow

Accessories		
Accessories (supplied)		Mounting clamps: 1

Remarks		
Pack quantity		1 pcs.

Electrical connection		
Cable: 2 m, PUR; 3 x 0.14 mm ²		

Connection



	Core colours
BK	black
BN	brown
BU	blue