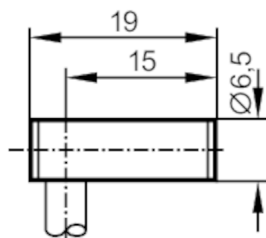




Inductive sensor

ITB3002-BPKG/2M PVC



Product characteristics

Electrical design	PNP
Output function	normally open
Sensing range [mm]	2
Housing	cylindrical
Dimensions [mm]	Ø 6.5 / L = 19

Electrical data

Operating voltage [V]	10...30 DC
Current consumption [mA]	20; (24 V)
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]	1000
Short-circuit protection	yes
Type of short-circuit protection	pulsed
Overload protection	no

Detection zone

Sensing range [mm]	2
Real sensing range S_r [mm]	$2 \pm 10 \%$
Operating distance [mm]	0...1.6

Accuracy / deviations

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

Operating conditions

Ambient temperature [°C]	-25...70
Protection	IP 67



Inductive sensor

ITB3002-BPKG/2M PVC

Tests / approvals

EMC	EN 60947-5-2	
	EN 55011	class B
MTTF [years]		1045
UL approval	Ta	0...40 °C
	power supply	Class 2
	File number UL	E174191

Mechanical data

Weight [g]	57
Housing	cylindrical
Mounting	flush mountable
Dimensions [mm]	Ø 6.5 / L = 19
Materials	housing: stainless steel; sensing face: PBT

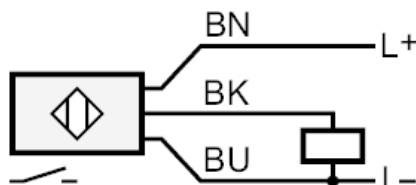
Remarks

Pack quantity	1 pcs.
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Electrical connection

Cable: 2 m, PVC; 3 x 0.14 mm²

Connection



Core colours :

BK = black

BN = brown

BU = blue