

IT5002

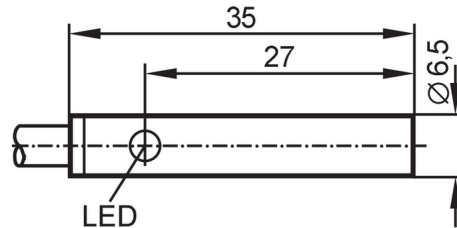


Inductive sensor

ITB3001-APKG

Article to be discontinued
Discontinuation date: 03/31/2026

Alternative articles: IT5020
When selecting an alternative article and accessories please note that technical data may differ!



Product characteristics

Electrical design		PNP
Output function		normally closed
Sensing range	[mm]	1
Housing		tubular
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 closed
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

Monitoring range

Sensing range	[mm]	1
Real sensing range Sr	[mm]	1 ± 10 %
Operating distance	[mm]	0...0.8
Increased sensing range		no

Accuracy / deviations

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

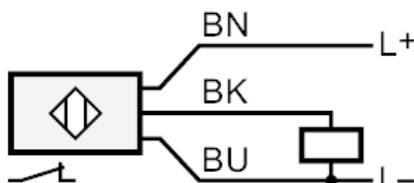
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Inductive sensor

ITB3001-APKG

Operating conditions		
Ambient temperature	[°C]	-25...80
Protection		IP 67
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]	5651
Mechanical data		
Weight	[g]	49.7
Housing		tubular
Mounting		flush mountable
Dimensions	[mm]	Ø 6.5 / L = 35
Material		housing: brass white bronze coated; sensing face: PBT
Displays / operating elements		
Display	Power	1 x LED, yellow
Accessories		
Items supplied		Mounting clamp: 1
Remarks		
Pack quantity		1 pcs.
Electrical connection		
Cable: 2 m, PVC; 3 x 0.14 mm ²		
Connection		



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