

Inductive sensor

ITB3001-APKG/AS



Product characteristics

Electrical design	PNP
Output function	normally closed
Sensing range [mm]	1
Housing	cylindrical
Dimensions [mm]	Ø 6.5 / L = 50

Electrical data

Operating voltage [V]	10...30 DC
Current consumption [mA]	10
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]	100
Switching frequency DC [Hz]	2000
Short-circuit protection	yes
Overload protection	yes

Detection zone

Sensing range [mm]	1
Real sensing range S_r [mm]	$1 \pm 10\%$
Operating distance [mm]	0...0.81

Accuracy / deviations

Correction factor	steel: 1 / stainless steel: 0.7 / brass: 0.3 / aluminium: 0.3 / copper: 0.1
Hysteresis [% of S_r]	1...20
Switch point drift [% of S_r]	-10...10

Operating conditions

Ambient temperature [°C]	-25...80
Protection	IP 65; (with ifm socket duly screwed on: IP 67)

IT5020



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Tests / approvals		
EMC	EN 61000-4-2 ESD	4 kV CD / 8 kV AD
	EN 61000-4-3 HF radiated	10 V/m
	EN 61000-4-4 Burst	2 kV
	EN 61000-4-6 HF conducted	10 V
	EN 55011 emission	class B
MTTF	[years]	1379
Embedded software included		yes
UL approval	Ta	-25...70 °C
	Enclosure type	Type 1
	power supply	Limited Voltage/Current
	UL Approval no.	A017
	File number UL	E174191

Mechanical data		
Weight	[g]	16.7
Housing		cylindrical
Mounting		flush mountable
Dimensions	[mm]	Ø 6.5 / L = 50
Materials		brass white bronze coated; sensing face: PBT orange; LED window: PPSU

Displays / operating elements		
Display	switching status	4 x 90° LED, yellow

Accessories		
Items supplied		Mounting clamps: 1

Remarks		
Pack quantity		1 pcs.

Electrical connection - plug		
Connector: 1 x M8; coding: A		



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Connection

