



Inductive sensor

ITB3002BBPKG/V4A/AS



Product characteristics

Electrical design	PNP
Output function	normally open
Sensing range [mm]	2
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 open
Max. voltage drop switching output DC [V]	2.5
Permanent current rating of switching output DC [mA]	100
Switching frequency DC [Hz]	800
Short-circuit protection	yes
Overload protection	yes

Detection zone

Sensing range [mm]	2
Real sensing range S_r [mm]	$2 \pm 10 \%$
Operating distance [mm]	0...1.62

Accuracy / deviations

Correction factor	steel: 1 / stainless steel: 0.7 / brass: 0.4 / aluminium: 0.4 / copper: 0.3
Hysteresis [% of S_r]	1...20
Switch point drift [% of S_r]	-10...10

Operating conditions

Ambient temperature [°C]	-25...70
Protection	IP 65; (with ifm socket duly screwed on: IP 67)

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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]		2439
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]	16.8
Housing	cylindrical
Mounting	flush mountable
Dimensions [mm]	Ø 6.5 / L = 50
Materials	stainless steel (1.4404 / 316L); sensing face: PBT orange; LED window: PPSU

Displays / operating elements

Display	switching status	4 x 90° LED, yellow
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Accessories

Items supplied	Mounting clamps: 1
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Remarks

Pack quantity	1 pcs.
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Electrical connection - plug

Connector: 1 x M8; coding: A



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Connection

