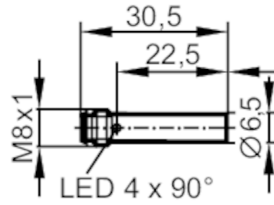


IT5040



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 = 30.5

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]	800
Short-circuit protection		yes
Type of short-circuit protection		pulsed
Overload protection		yes

Detection zone

Sensing range	[mm]	2
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...20

Operating conditions

Ambient temperature	[°C]	-20...70
Protection		IP 65; (with ifm socket duly screwed on: IP67)

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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 61000-4-5 Surge	0,5 kV line to line, Ri: 2 Ohm
	EN 61000-4-6 HF conducted	10 V
	EN 55011	class B
MTTF	[years]	1809
UL approval	Ta	-20...70 °C
	Enclosure type	Type 1
	voltage supply	Class 2
	File number UL	E174191

Mechanical data		
Weight	[g]	15.3
Housing		cylindrical
Mounting		flush mountable
Dimensions	[mm]	Ø 6.5 / L = 30.5
Materials		housing: stainless steel; sensing face: LCP

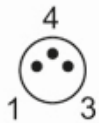
Displays / operating elements		
Display	switching status	4 x 90° LED, yellow

Accessories		
Accessories (supplied)		Mounting clamps: 1

Remarks		
Pack quantity		1 pcs.

Electrical connection - plug

Connector: 1 x M8



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Connection

