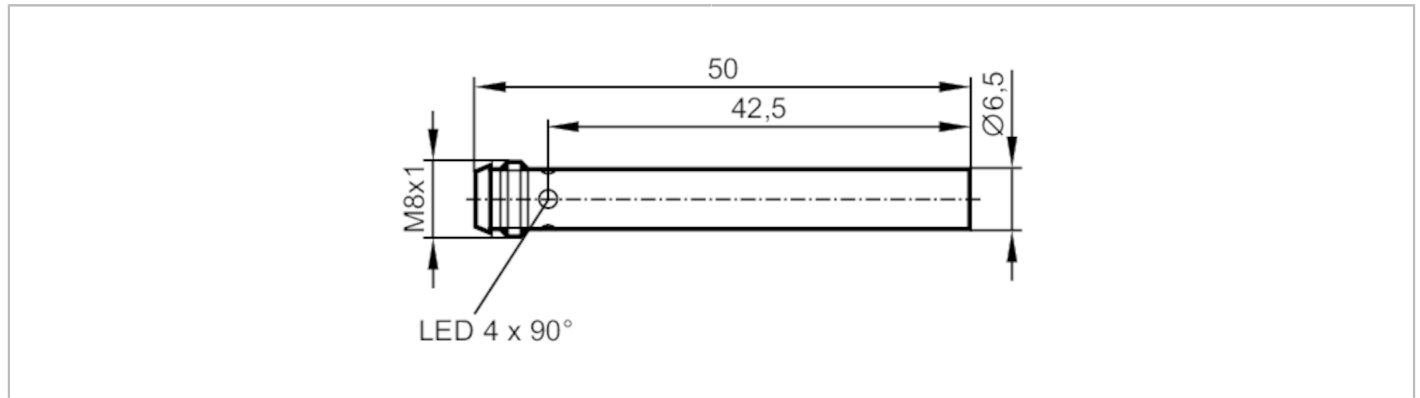


IT5034



Inductive sensor

ITB31,5BBPKG/AS




Product characteristics		
Electrical design		PNP
Output function		normally open
Sensing range	[mm]	1.5
Housing		cylindrical
Dimensions	[mm]	Ø 6.5 / L = 50
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 open
Max. voltage drop switching output DC	[V]	2.5
Permanent current rating of switching output DC	[mA]	200
Switching frequency DC	[Hz]	1700
Short-circuit protection		yes
Type of short-circuit protection		pulsed
Overload protection		yes
Detection zone		
Sensing range	[mm]	1.5
Real sensing range Sr	[mm]	1.5 ± 10 %
Operating distance	[mm]	0...1.22
Accuracy / deviations		
Correction factor		stainless steel: 0.7 / brass: 0.4 / aluminium: 0.3 / copper: 0.2
Hysteresis	[% of Sr]	1...20
Switch point drift	[% of Sr]	-10...10

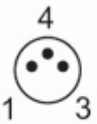
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Inductive sensor

ITB31,5BBPKG/AS

Operating conditions		
Ambient temperature	[°C]	0...60
Protection		IP 65; (with ifm socket duly screwed on: IP67)
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
Vibration resistance	EN 60947-5-2	
Shock resistance	EN 60947-5-2	
MTTF	[years]	2359
UL approval	Ta	-25...80 °C
	Enclosure type	Type 1
	voltage supply	Class 2
	File number UL	E174191
Mechanical data		
Weight	[g]	16.8
Housing		cylindrical
Mounting		flush mountable
Dimensions	[mm]	Ø 6.5 / L = 50
Materials		brass special coating; sensing face: LCP orange
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

