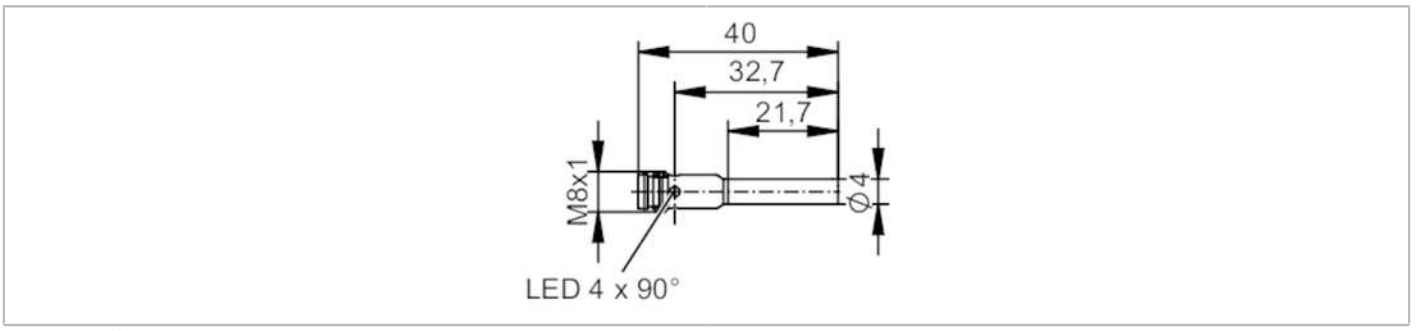
IZ5057

Inductive sensor

IZB31.5-BPKG/AS



Product characteristics		
Electrical design		PNP
Output function		normally open
Sensing range	[mm]	1.5
Housing		cylindrical
Dimensions	[mm]	Ø 4 / L = 40
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]	100
Switching frequency DC	[Hz]	2000
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...1.2
Accuracy / deviations		
Correction factor		steel: 1 / stainless steel: 0.7 / brass: 0.5 / aluminium: 0.4 / copper: 0.3
Hysteresis	[% of Sr]	1...15
Switch point drift	[% of Sr]	-10...10
Operating conditions		
Ambient temperature	[°C]	-25...70
Protection		IP 65; 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	class B
UL approval		Ta	-25...70 °C
		Enclosure type	Type 1
		power supply	Limited Voltage/Current
		UL Approval no.	A053
		File number UL	E174191

Mechanical data		
Weight	[g]	12.4
Housing		cylindrical
Mounting		flush mountable
Dimensions	[mm]	Ø 4 / L = 40
Materials		housing: stainless steel (303/1.4305); LED window: PPSU; sensing face: POM

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

Accessories	
Items supplied	Mounting clamps: 1

Remarks	
Pack quantity	1 pcs.

Electrical connection - plug

Connector: 1 x M8; coding: A



Connection

