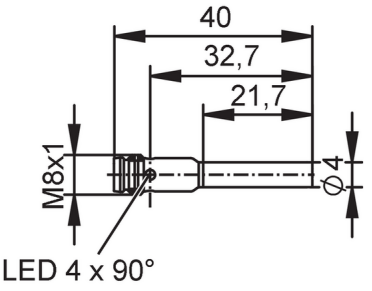
IZ5035

Inductive sensor

IZB30,8-BPKG/V2A/AS-514 RT



Product characteristics		
Electrical design		PNP
Output function		normally open
Sensing range	[mm]	0.8
Housing		tubular
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		yes (non-latching)
Overload protection		yes
Monitoring range		
Sensing range	[mm]	0.8
Real sensing range Sr	[mm]	0.8 ± 10 %
Operating distance	[mm]	0...0.65
Accuracy / deviations		
Correction factor		steel: 1 / stainless steel: 0.7 / brass: 0.5 / aluminum: 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

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Tests / approvals			
EMC		EN 61000-4-2 ESD	4 kV CD / 8 kV AD
		EN 61000-4-3 HF radiated	3 V/m
		EN 61000-4-4 Burst	2 kV
		EN 61000-4-6 HF conducted	3 V
		EN 55011	class B
MTTF	[years]	1999	
UL approval		Ta	-25...70 °C
		Enclosure type	Type 1
		voltage supply	Limited Voltage/Current
		UL approval number	A053
		File number UL	E174191

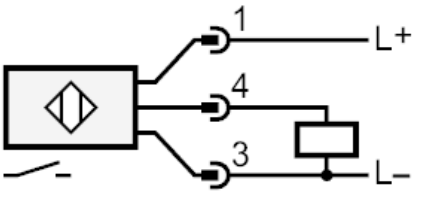
Mechanical data		
Weight	[g]	13
Housing		tubular
Mounting		flush mountable
Dimensions	[mm]	Ø 4 / L = 40
Material		housing: stainless steel (1.4305 / 303); LED window: PA; sensing face: POM

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

Accessories	
Items supplied	Mounting clamp: 1

Remarks	
Pack quantity	1 pcs.

Electrical connection - plug

Connector: 1 x M8; coding: A; Contacts: 3

Connection