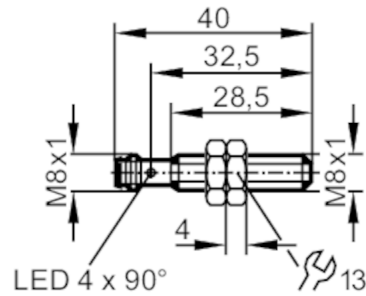


IE5356



Inductive sensor

IEBC002BASKG/AS



Product characteristics

Electrical design		PNP/NPN
Output function		normally open
Sensing range	[mm]	2
Housing		threaded type
Dimensions	[mm]	M8 x 1 / L = 40

Electrical data

Operating voltage	[V]	10...30 DC
Current consumption	[mA]	< 15; (only in 3-wire operation)
Protection class		III
Reverse polarity protection		yes

Outputs

Electrical design		PNP/NPN
Output function		normally open
Max. voltage drop switching output DC	[V]	2.8
Minimum load current	[mA]	2; (only in 2-wire operation)
Max. leakage current	[mA]	0.1; (only in 2-wire operation)
Permanent current rating of switching output DC	[mA]	100
Switching frequency DC	[Hz]	800
Max. voltage drop across load for nominal current	[V]	3.5
Short-circuit protection		yes
Overload protection		yes

Detection zone

Sensing range	[mm]	2
Operating distance	[mm]	0...1.6

Accuracy / deviations


Correction factor		steel: 1 / stainless steel: 0.7 / brass: 0.5 / aluminium: 0.4 / copper: 0.3
Hysteresis	[% of Sr]	1...10

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Operating conditions		
Ambient temperature	[°C]	0...60
Protection		IP 65; IP 67; (with ifm socket duly screwed on)
Tests / approvals		
EMC	EN 61000-4-2 ESD	4 kV CD / 8kV 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
MTTF	[years]	2071
UL approval	Ta	0...60 °C
	Enclosure type	Type 1
	voltage supply	Class 2
	File number UL	E174191
Mechanical data		
Weight	[g]	17
Housing		threaded type
Mounting		flush mountable
Dimensions	[mm]	M8 x 1 / L = 40
Thread designation		M8 x 1
Materials		brass white bronze coated; LCP
Tightening torque for cable gland	[Nm]	A = 5 mm: max. 1,5 Nm ; B: max. 2 Nm
Displays / operating elements		
Display	switching status	4 x 90° LED, yellow
Accessories		
Accessories (supplied)		lock nuts: 2
Remarks		
Pack quantity		1 pcs.
Electrical connection - plug		
Connector: 1 x M8		
		

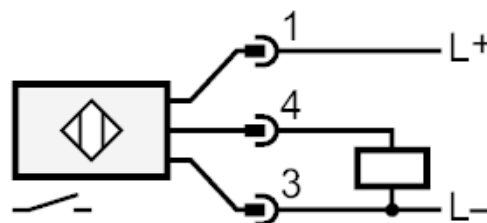
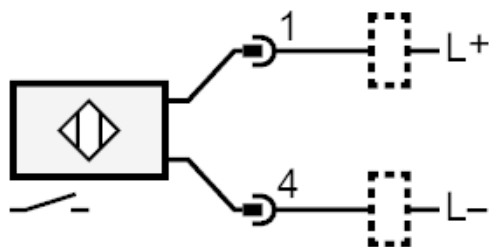


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Diagrams and graphs

Installation

