

IE5258



Inductive sensor

IEB3001-APKG/AS



Electrical data

Operating voltage	[V]	10...36 DC; (to PELV; "supply class 2" to cULus)
Current consumption	[mA]	15; (24 V)
Protection class		III
Reverse polarity protection		yes

Outputs

Electrical design		PNP
Output function		normally closed
Max. voltage drop switching output DC	[V]	2.5
Permanent current rating of switching output DC	[mA]	200
Switching frequency DC	[Hz]	2000
Short-circuit protection		yes
Type of short-circuit protection		pulsed
Overload protection		yes

Detection zone

Sensing range	[mm]	1
Real sensing range Sr	[mm]	1 ± 10 %
Operating distance	[mm]	0...0.8

Accuracy / deviations

Correction factor		steel: 1 / stainless steel: 0.7 / brass: 0.5 / aluminium: 0.4 / copper: 0.3
Hysteresis	[% of Sr]	1...20
Switch point drift	[% of Sr]	-10...10

Operating conditions

Ambient temperature	[°C]	-25...80
Protection		IP 65; IP 67; (with ifm socket duly screwed on)

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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 60947-5-2		
	EN 55011		class B
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]	18.5
Housing		threaded type
Mounting		flush mountable
Dimensions	[mm]	M8 x 1 / L = 50
Thread designation		M8 x 1
Materials		threaded sleeve: brass white bronze coated; sensing face: LCP; lock nuts: brass
Tightening torque	[Nm]	A = 5 mm: 1,5 Nm; B: 2 Nm

Displays / operating elements

Display	switching status	4 x 90° LED, yellow
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Accessories

Accessories (supplied)	lock nuts: 2
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Remarks

Pack quantity	1 pcs.
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Electrical connection - plug

Connector: 1 x M8



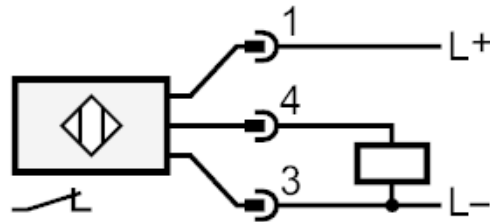
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Connection



Diagrams and graphs

Installation

