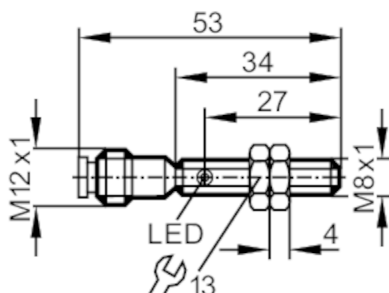


IE5090



Inductive sensor

IEB3001-BPKG/US-100-DPS



Product characteristics

Electrical design	PNP
Output function	normally open
Sensing range [mm]	1
Housing	Threaded type
Dimensions [mm]	M8 x 1 / L = 53

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]	750
Short-circuit protection	yes
Overload protection	yes

Monitoring range

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: 0.4 / aluminum: 0.3 / copper: 0.2
Hysteresis [% of Sr]	1...15
Switch-point drift [% of Sr]	-10...10

Operating conditions

Ambient temperature [°C]	-25...80
Protection	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		3 V/m
	EN 61000-4-4 Burst		2 kV
	EN 61000-4-6 HF conducted		3 V
	EN 55011		class B
MTTF	[years]	2804	
UL approval	Ta		-25...80 °C
	Enclosure type		Type 1
	voltage supply		Class 2
	File number UL		E174191

Mechanical data

Weight	[g]	20.7
Housing		Threaded type
Mounting		flush mountable
Dimensions	[mm]	M8 x 1 / L = 53
Thread designation		M8 x 1
Material		brass white bronze coated; PBT
Tightening torque	[Nm]	A = 5 mm: 1 Nm; B: 2 Nm

Displays / operating elements

Display	Switching status	1 x 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 M12



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Connection



Diagrams and graphs

Installation

