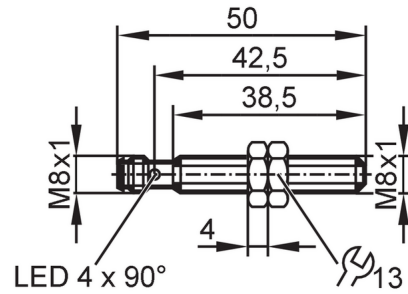




## Inductive full-metal sensor

IEB3002BBPKG/AM/AS



## Product characteristics

Electrical design		PNP
Output function		normally open
Sensing range	[mm]	2
Housing		threaded type
Dimensions	[mm]	M8 x 1 / L = 50

## Application

Special feature	Gold-plated contacts; Increased sensing range	
Application	Industrial applications / factory automation; Use in machine tools, coolants and lubricants	
Pressure rating	50 bar	10 MPa
Note on pressure rating	sensing face	

## Electrical data

Operating voltage	[V]	10...30 DC
Current consumption	[mA]	< 10
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]	100
Short-circuit protection		yes
Overload protection		yes

## Detection zone

Sensing range	[mm]	2
Real sensing range Sr	[mm]	2 ± 10 %
Operating distance	[mm]	0...1.6
Increased sensing range		yes

## Accuracy / deviations

Correction factor		steel: 1 / stainless steel: 0.7 / brass: 0.7 / aluminium: 0.6 / copper: 0.5
Hysteresis	[% of Sr]	1...20

# IEC201



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Switch point drift	[mm]	-10...10
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### Operating conditions

Ambient temperature	[°C]	-25...70
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Protection		IP 67
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### Tests / approvals

EMC	EN 61000-4-2 ESD	4 kV CD / 8 kV AD
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EN 61000-4-3 HF radiated	10 V/m
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EN 61000-4-4 Burst	2 kV
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EN 61000-4-6 HF conducted	10 V
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EN 55011	class B
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Impact resistance		1 J
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MTTF	[years]	1446
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Embedded software included		yes
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UL approval	Ta	-25...70 °C
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Enclosure type	Type 1
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voltage supply	Limited Voltage/Current
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UL approval no.	A017
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File number UL	E174191
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### Mechanical data

Weight	[g]	18.1
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Housing		threaded type
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Mounting		flush mountable
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Dimensions	[mm]	M8 x 1 / L = 50
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Thread designation		M8 x 1
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Materials		stainless steel (316L/1.4404); sensing face: stainless steel (316L/1.4404); LED window: PPSU; lock nuts: stainless steel (316L/1.4404)
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Tightening torque	[Nm]	< 5
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### Displays / operating elements

Display	switching status	4 LED, yellow
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### Accessories

Items supplied		lock nuts: 2
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### Remarks

Pack quantity		1 pcs.
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### Electrical connection - plug

Connector: 1 x M8; coding: A; Contacts: 3, gold-plated



# IEC201



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### Connection

