



Inductive sensor

IEB3006-BNKG/V4A/K1/2M/PUR



1: LED yellow



Product characteristics

Electrical design	NPN
Output function	normally closed
Sensing range [mm]	6
Housing	threaded type
Dimensions [mm]	M8 x 1 / L = 37.5

Application

Special feature	Increased sensing range; Correction factor K = 1; Magnetic-field immune
Application	Industrial applications / factory automation
Magnetic-field immune	yes
Max. magnetic field immunity [mT]	300

Electrical data

Operating voltage [V]	10...30 DC
Current consumption [mA]	< 20
Protection class	III
Reverse polarity protection	yes

Outputs

Electrical design	NPN
Output function	normally closed
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
Overload protection	yes

Detection zone

Sensing range [mm]	6
Real sensing range Sr [mm]	6 ± 10 %
Operating distance [mm]	0...4.86
Increased sensing range	yes

Accuracy / deviations

Correction factor	steel: 1 / stainless steel: 1 / brass: 1 / aluminium: 1 / copper: 1
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Hysteresis	[X01]	3...15
Switch point drift	[X01]	-10...10
Correction factor K = 1		yes

Operating conditions

Ambient temperature	[°C]	-40...85
Protection		IP 65; IP 66; IP 67; IP 68; IP 69K

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 61000-4-6 HF conducted	10 V
	EN 55011	class B
Vibration resistance	EN 60068-2-6 Fc	20 g (10...3000 Hz) / 50 sweep cycles, 1 octave per minute, in 3 axes
Shock resistance	EN 60068-2-27 Ea	100 g 11 ms half-sine; 3 shocks each in every direction of the 3 coordinate axes
Continuous shock resistance	EN 60068-2-27	40 g 6 ms; 4000 shocks each in every direction of the 3 coordinate axes
Fast temperature change	EN 60068-2-14 Na	TA = -40 °C; TB = 85 °C; t1 = 30 min; t2 = < 10 s; 50 cycles
Salt spray test	EN 60068-2-52 Kb	severity level 5 (4 test cycles)
MTTF	[ANN]	701
Embedded software included		yes
UL approval	Ta	-25...70 °C
	Enclosure type	Type 1
	подача напруги	Limited Voltage/Current
	UL Approval no.	A013
	File number UL	E174191

Mechanical data

Weight	[g]	45
Housing		threaded type
Mounting		non-flush mountable
Dimensions	[mm]	M8 x 1 / L = 37.5
Thread designation		M8 x 1
Materials		stainless steel (1.4404 / 316L); sensing face: LCP white; LED window: PEI; lock nuts: stainless steel (1.4404 / 316L)
Tightening torque	[Nm]	A = 6 mm: 2 Nm; B: 5 Nm

Displays / operating elements

Display	switching status	1 x LED, yellow
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Аксессуары

Items supplied	lock nuts: 2
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Remarks

Pack quantity	1 pcs.
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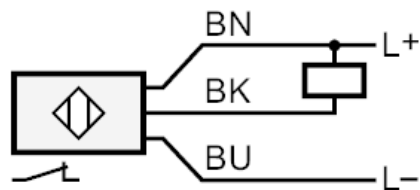
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Electrical connection

Cable: 2 m, PUR; 3 x 0.14 mm²

Connection



Core colours :
 BK = black
 BN = brown
 BU = blue

Diagrams and graphs

Installation

