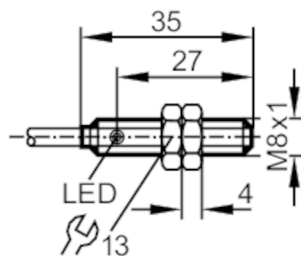


Inductive sensor

IEB3001-BPKG/2M/BH/AS



Product characteristics

Electrical design	PNP
Output function	normally open
Sensing range [mm]	1
Housing	threaded type
Dimensions [mm]	M8 x 1 / L = 35

Electrical data

Operating voltage [V]	10...36 DC
Current consumption [mA]	10; (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
Notes on switching frequency [Hz]	1000 nb
Short-circuit protection	yes
Overload protection	yes

Detection zone

Sensing range [mm]	1
Real sensing range S_r [mm]	$1 \pm 10\%$
Operating distance [mm]	0...0.81

Accuracy / deviations

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

Operating conditions

Ambient temperature [°C]	-25...80
Protection	IP 67

IE5385



Inductive sensor

IEB3001-BPKG/2M/BH/AS

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

Mechanical data		
Weight	[g]	50.2
Housing		threaded type
Mounting		flush mountable
Dimensions	[mm]	M8 x 1 / L = 35
Thread designation		M8 x 1
Materials		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

Accessories		
Items supplied		lock nuts: 2

Remarks		
Pack quantity		1 pcs.

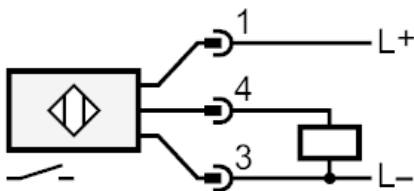
Electrical connection - plug

Cable: 2 m, PUR; 3 x 0.14 mm²

Connector: 1 x M8; coding: A



Connection



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Inductive sensor

IEB3001-BPKG/2M/BH/AS

Diagrams and graphs

Installation

