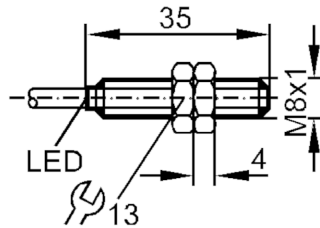


# IE5430



## Inductive sensor

IEB3001-BPKG/3M/ZH/RT



### 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]	< 15
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]	2000
Short-circuit protection		yes
Overload protection		yes

### Detection zone

Sensing range	[mm]	1
Real sensing range Sr	[mm]	1 ± 10 %

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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...15
Switch point drift [% of Sr]	-10...10

### Operating conditions

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

### 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]	61.7
Housing	threaded type
Mounting	flush mountable
Dimensions [mm]	M8 x 1 / L = 35
Thread designation	M8 x 1
Materials	threaded sleeve: brass white bronze coated; sensing face: PBT; end cap: TPU
Tightening torque [Nm]	A = 5 mm: 1 Nm; B: 2 Nm

### Displays / operating elements

Display	switching status	1 x LED, red
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### Accessories

Items supplied	lock nuts: 2
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### Remarks

Remarks	
Pack quantity	1 pcs.

# IE5430



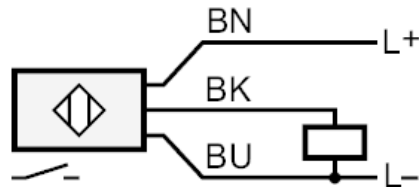
## Inductive sensor

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### Electrical connection

Cable: 3 m, PUR; 3 x 0.14 mm<sup>2</sup>

### Connection



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

### Diagrams and graphs

#### Installation

