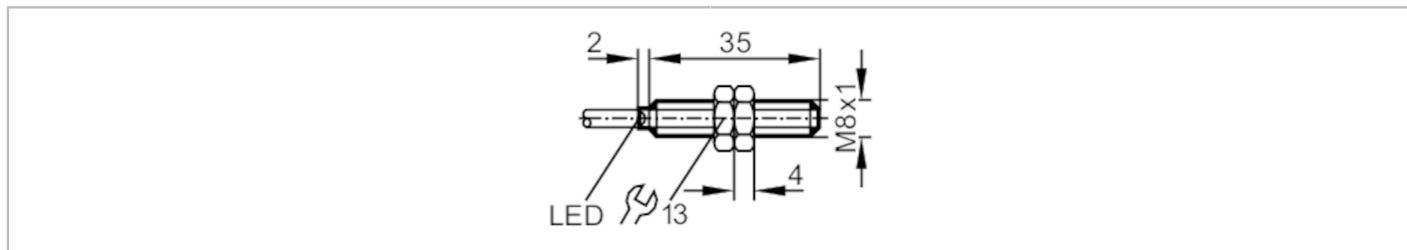


**Inductive sensor**

IEBC003BASKG

**Product characteristics**

Electrical design		PNP/NPN
Output function		normally open
Sensing range [mm]		3
Housing		Threaded type
Dimensions [mm]		M8 x 1 / L = 37

**Electrical data**

Operating voltage [V]		10...30 DC
Current consumption [mA]		< 10; (only in 3-wire operation)
Protection class		III
Reverse polarity protection		yes

**Outputs**

Electrical design		PNP/NPN
Output function		normally open
Max. voltage drop switching output DC [V]		2.8
Minimum load current [mA]		2; (only in 2-wire operation)
Max. leakage current [mA]		0.5; (only in 2-wire operation)
Permanent current rating of switching output DC [mA]		100
Switching frequency DC [Hz]		1000
Short-circuit protection		yes
Type of short-circuit protection		yes (non-latching)
Overload protection		yes

**Monitoring range**

Sensing range [mm]		3
Operating distance [mm]		0...2.4

**Accuracy / deviations**

Correction factor		steel: 1 / stainless steel: 0.7 / brass: 0.5 / aluminum: 0.4 / copper: 0.3
Hysteresis [% of Sr]		1...15

**Operating conditions**

Ambient temperature [°C]		0...70
Protection		IP 67

**Tests / approvals**

EMC		EN 60947-5-2
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**Inductive sensor**

IEBC003BASKG

MTTF	[years]	1517
UL approval		Ta -25...80 °C
		Enclosure type Type 1
		voltage supply Limited Voltage/Current
		File number UL E174191

**Mechanical data**

Weight	[g]	51.5
Housing		Threaded type
Mounting		flush mountable
Dimensions	[mm]	M8 x 1 / L = 37
Thread designation		M8 x 1
Material		brass white bronze coated; sensing face: LCP
Tightening torque	[Nm]	A = 5 mm: 1,5 Nm; B: 2 Nm

**Displays / operating elements**

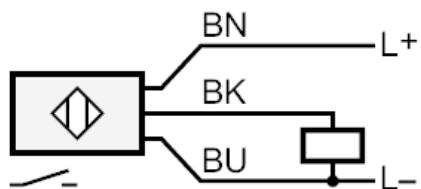
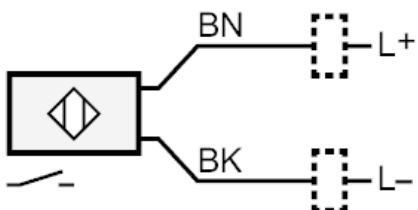
Display	Switching status	1 x LED, yellow
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**Accessories**

Items supplied	lock nuts: 2
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**Remarks**

Pack quantity	1 pcs.
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**Electrical connection**Cable: 2 m, PVC; 3 x 0.14 mm<sup>2</sup>**Connection**

Core colors :

- BK = black  
 BN = brown  
 BU = blue

## Inductive sensor

IEBC003BASKG

### Diagrams and graphs

#### Installation

