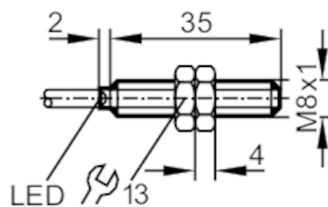




Inductive sensor

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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IE5343



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

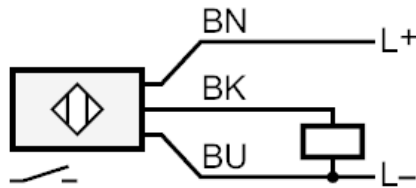
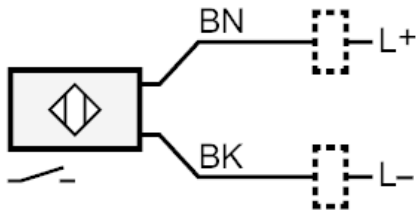
Mechanical data		
Weight	[g]	51.5
Housing		Threaded type
Mounting		flush mountable
Dimensions	[mm]	M8 x 1 / L = 37
Thread designation		M8 x 1
Material		brass white bronze coated; sensing face: LCP
Tightening torque	[Nm]	A = 5 mm: 1,5 Nm; B: 2 Nm

Displays / operating elements		
Display	Switching status	1 x LED, yellow

Accessories	
Items supplied	lock nuts: 2

Remarks	
Pack quantity	1 pcs.

Electrical connection	
Cable: 2 m, PVC; 3 x 0.14 mm²	
Connection	



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

IE5343

Inductive sensor

IEBC003BASKG



Diagrams and graphs

Installation

