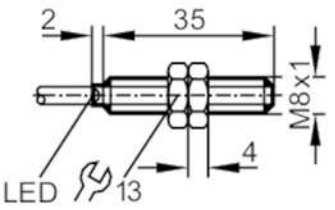
IE5461

Inductive sensor

IEBC003BASKG/1M



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		pulsed
Overload protection		yes
Detection zone		
Sensing range	[mm]	3
Operating distance	[mm]	0...2.4
Accuracy / deviations		
Correction factor		steel: 1 / stainless steel: 0.7 / brass: 0.5 / aluminium: 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

IE5461

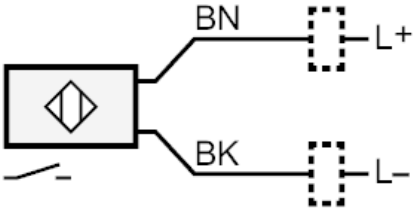
Inductive sensor

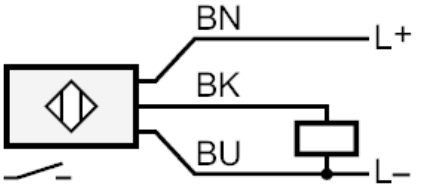
IEBC003BASKG/1M

MTTF	[years]	1517
Mechanical data		
Weight	[g]	35.7
Housing		threaded type
Mounting		flush mountable
Dimensions	[mm]	M8 x 1 / L = 37
Thread designation		M8 x 1
Materials		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: 1 m, PVC; 3 x 0.14 mm²

Connection





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

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Inductive sensor

IEBC003BASKG/1M

Diagrams and graphs

Installation

