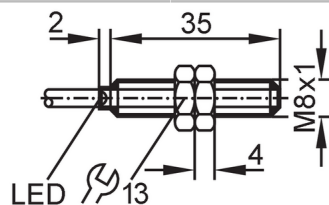




Inductive sensor

IEBC003BASKG/0,23M



Product characteristics

Electrical design	PNP/NPN
Output function	normally open
Sensing range [mm]	3
Housing	Threaded type
Dimensions [mm]	M8 x 1 / L = 35

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
Real sensing range S_r [mm]	$3 \pm 10\%$
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 S_r]	1...15
Switch-point drift [% of S_r]	-10...10

Operating conditions

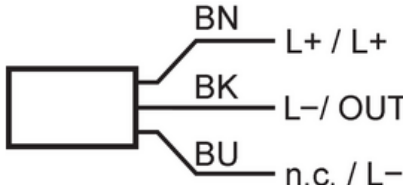
Ambient temperature [°C]	0...70
Protection	IP 67

IE5387



Inductive sensor

IEBC003BASKG/0,23M

Tests / approvals		
EMC	EN 60947-5-2	
MTTF	[years]	1517
Mechanical data		
Weight	[g]	22.5
Housing	Threaded type	
Mounting	flush mountable	
Dimensions	[mm]	M8 x 1 / L = 35
Thread designation	M8 x 1	
Material	housing: brass white bronze coated; sensing face: LCP black; lock nuts: brass	
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: 0.23 m, PVC, black, Ø 3.5 mm; 3 x 0.14 mm²		
Connection		
		
BK =	Core colors :	
BN =	black	
BU =	brown	
	blue	
2-wire PNP		
BN	L+	DO (NO) (PNP)
BK	L-	
BU	n.c.	
2-wire NPN		
BN	L+	DO (NO) (NPN)
BK	L-	
BU	n.c.	
3-wire PNP		
BN	L+	DO (NO) (PNP)
BK	L-	
BU	OUT	
DO: digital output; NO: normally open		

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Inductive sensor

IEBC003BASKG/0,23M



Diagrams and graphs

Installation

