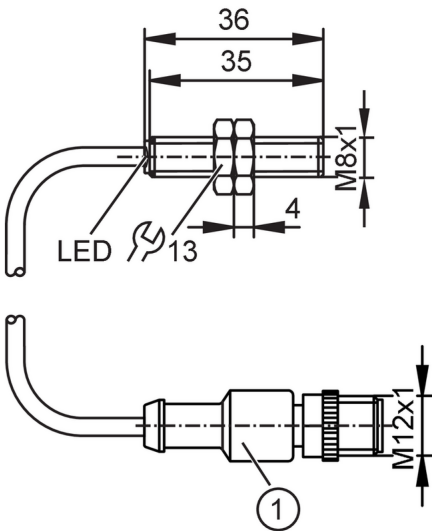




Inductive sensor

IEBC003BASKG/0,3M/US



1 illustration (example)



Product characteristics		
Electrical design		PNP/NPN
Output function		normally open
Sensing range	[mm]	3
Housing		Threaded type
Dimensions	[mm]	M8 x 1 / L = 36
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 Sr	[mm]	3 ± 10 %

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Inductive sensor

IEBC003BASKG/0,3M/US

Operating distance	[mm]	0...2.4
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Accuracy / deviations

Correction factor		steel: 1 / stainless steel: 0.7 / brass: 0.5 / aluminum: 0.4 / copper: 0.3
Hysteresis	[% of Sr]	1...15
Switch-point drift	[% of Sr]	-10...10

Operating conditions

Ambient temperature	[°C]	0...60
Protection		IP 67

Tests / approvals

EMC	EN 60947-5-2	
MTTF	[years]	1517
UL approval	Ta	-25...70 °C
	Enclosure type	Type 1
	voltage supply	Limited Voltage/Current
	UL approval number	A057
	File number UL	E174191

Mechanical data

Weight	[g]	31.2
Housing		Threaded type
Mounting		flush mountable
Dimensions	[mm]	M8 x 1 / L = 36
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
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Accessories

Items supplied	lock nuts: 2
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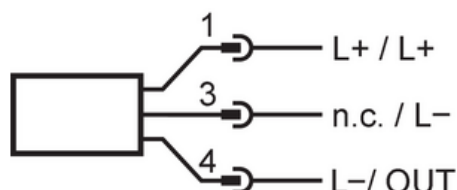
Remarks

Pack quantity	1 pcs.
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Electrical connection - plug

Cable: 0.3 m, PVC, black, Ø 3.4 mm; 3 x 0.14 mm²

Connector: 1 x M12; coding: A; Contacts: 4; Locking: rotatable



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2-wire PNP			
1	L+		
3	n.c.		
4	L-	DO (NO) (PNP)	

2-wire NPN			
1	L+	DO (NO) (NPN)	
3	n.c.		
4	L-		

3-wire PNP			
1	L+		
3	L-		
4	OUT	DO (NO) (PNP)	

DO: digital output; NO: normally open

Diagrams and graphs

Installation

