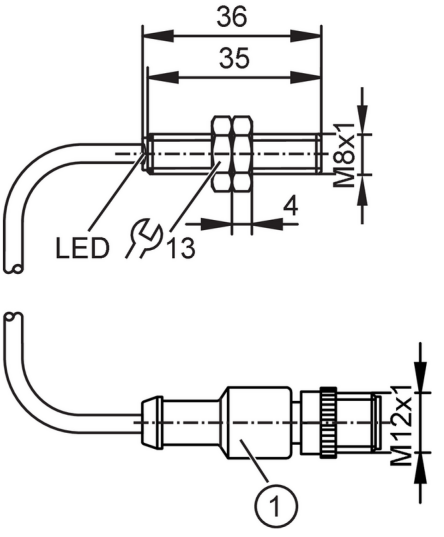
IE5351

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
Application		
Application		Industrial applications / factory automation; For use where space is restricted
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

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Detection zone			
Sensing range	[mm]	3	
Real sensing range Sr	[mm]	3 ± 10 %	
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	
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 no.	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	
Materials		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.	

IE5351

Inductive sensor

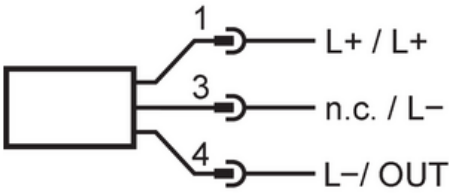
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Electrical connection - plug

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





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

