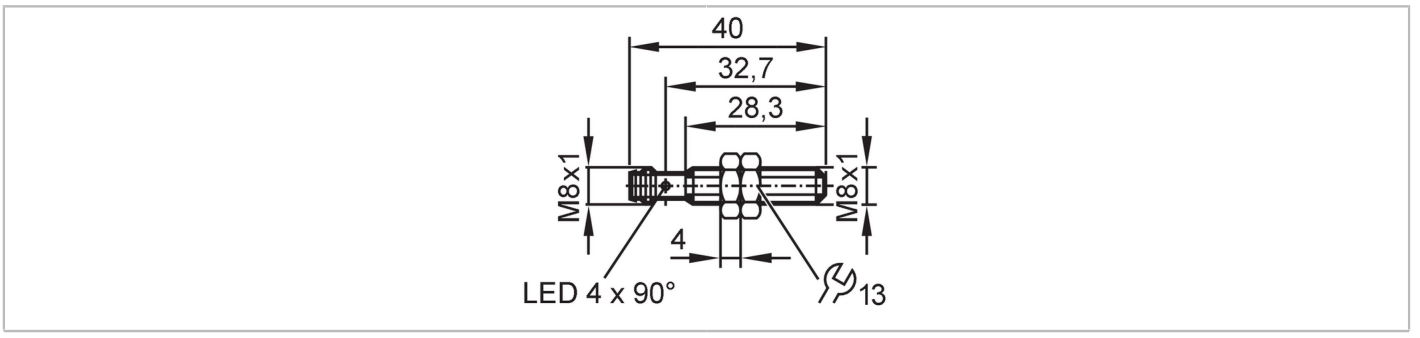
IE5349

Inductive sensor

IEBC003BBSKG/AS



Product characteristics		
Electrical design		PNP/NPN
Output function		normally closed
Sensing range	[mm]	3
Housing		threaded type
Dimensions	[mm]	M8 x 1 / L = 40
Application		
Application		Industrial applications / factory automation; For use where space is restricted
Electrical data		
Operating voltage	[V]	10...30 DC
Protection class		III
Reverse polarity protection		yes
Outputs		
Electrical design		PNP/NPN
Output function		normally closed
Max. voltage drop switching output DC	[V]	3.5
Minimum load current	[mA]	2; (only in 2-wire operation)
Max. leakage current	[mA]	0.5; (nur im 3-Leiter Betrieb)
Permanent current rating of switching output DC	[mA]	100
Switching frequency DC	[Hz]	800
Short-circuit protection		yes
Overload protection		yes
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...20
Switch point drift	[mm]	-10...10

IE5349

Inductive sensor

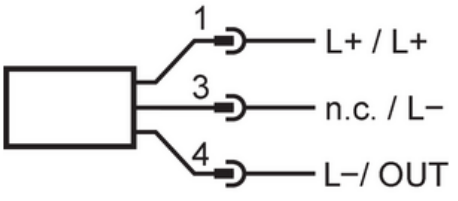
IEBC003BBSKG/AS

Operating conditions			
Ambient temperature	[°C]	0...60	
Protection		IP 65; IP 67; (with ifm socket duly screwed on)	
Tests / approvals			
EMC		EN 60947-5-2	
		EN 61000-4-2 ESD	4 kV CD / 8 kV AD
		EN 61000-4-3 HF radiated	10 V/m
		EN 61000-4-4 Burst	2 kV
		EN 61000-4-6 HF conducted	10 V
		EN 55011	class B
MTTF	[years]	403	
Embedded software included		no	
UL approval		Ta	0...60 °C
		Enclosure type	Type 1
		voltage supply	Limited Voltage/Current
		UL approval no.	A017
		File number UL	E174191
Mechanical data			
Weight	[g]	14.4	
Housing		threaded type	
Mounting		flush mountable	
Dimensions	[mm]	M8 x 1 / L = 40	
Thread designation		M8 x 1	
Materials		housing: brass white bronze coated; sensing face: LCP orange; LED window: PPSU; lock nuts: brass white bronze coated	
Tightening torque	[Nm]	A = 5 mm: 1,5 Nm; B = 2 Nm	
Displays / operating elements			
Display		switching status	4 LED, yellow
Accessories			
Items supplied		lock nuts: 2	
Remarks			
Pack quantity		1 pcs.	

Electrical connection - plug

Connector: 1 x M8; coding: A; Contacts: 3





IE5349

Inductive sensor

IEBC003BBSKG/AS

2-wire PNP		
1	L+	
3	n.c.	
4	L-	DO (NC) (PNP)

2-wire NPN		
1	L+	DO (NC) (NPN)
3	n.c.	
4	L-	

3-wire PNP		
1	L+	
3	L-	
4	OUT	DO (NC) (PNP)

DO: digital output; NC: normally closed

Diagrams and graphs

Installation

