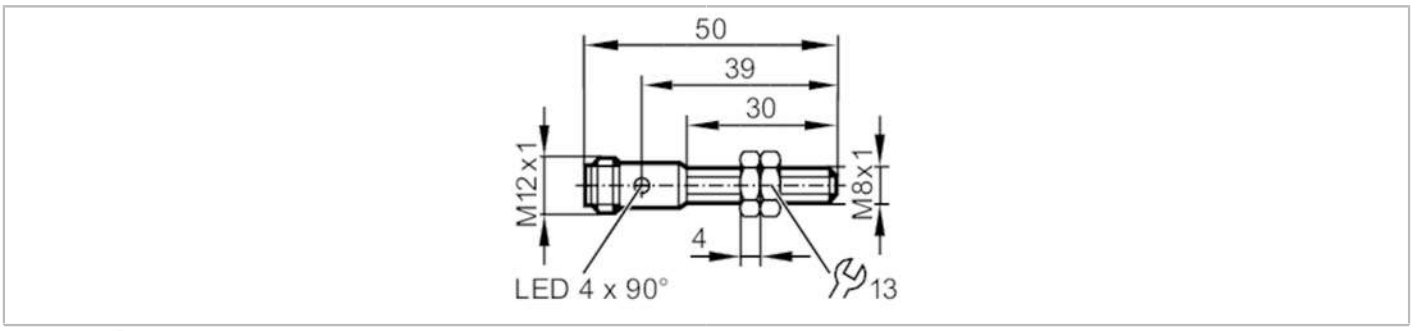
IE5092

Inductive sensor

IEB3001-ANKG/US-104



Product characteristics		
Electrical design		NPN
Output function		normally open
Sensing range	[mm]	1
Housing		threaded type
Dimensions	[mm]	M8 x 1 / L = 50
Electrical data		
Operating voltage	[V]	10...30 DC
Current consumption	[mA]	< 10
Protection class		III
Reverse polarity protection		yes
Outputs		
Electrical design		NPN
Output function		normally open
Max. voltage drop switching output DC	[V]	2.5
Permanent current rating of switching output DC	[mA]	100
Switching frequency DC	[Hz]	750
Short-circuit protection		yes
Overload protection		yes
Detection zone		
Sensing range	[mm]	1
Real sensing range Sr	[mm]	1 ± 10 %
Operating distance	[mm]	0...0.81
Increased sensing range		no
Accuracy / deviations		
Correction factor		steel: 1 / stainless steel: 0.7 / brass: 0.3 / aluminium: 0.3 / copper: 0.1
Hysteresis	[% of Sr]	1...20
Switch point drift	[% of Sr]	-10...10
Operating conditions		
Ambient temperature	[°C]	-25...80
Protection		IP 67

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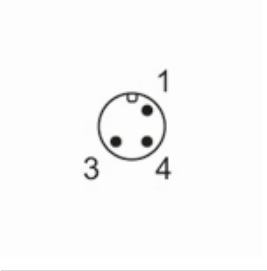
Tests / approvals			
EMC		EN 61000-4-2 ESD	4 kV CD / 8 kV AD
		EN 61000-4-3 HF radiated	3 V/m
		EN 61000-4-4 Burst	2 kV
		EN 61000-4-6 HF conducted	3 V
		EN 55011	class B
MTTF	[years]	1322	
UL approval		Ta	-25...70 °C
		Enclosure type	Type 1
		power supply	Limited Voltage/Current
		UL Approval no.	A028
		File number UL	E174191
Mechanical data			
Weight	[g]	20.5	
Housing		threaded type	
Mounting		flush mountable	
Dimensions	[mm]	M8 x 1 / L = 50	
Thread designation		M8 x 1	
Materials		brass white bronze coated; sensing face: LCP orange; LED window: PEI; lock nuts: brass white bronze coated	
Tightening torque	[Nm]	A = 5 mm: 1,5 Nm; B: 2 Nm	
Full-metal housing		no	
Displays / operating elements			
Display		switching status	1 x LED, yellow
Accessories			
Items supplied		lock nuts: 2	
Remarks			
Pack quantity		1 pcs.	

Electrical connection - plug

Connector: 1 x M12; coding: A



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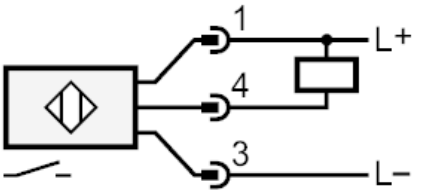
Connection



Diagrams and graphs

Installation

