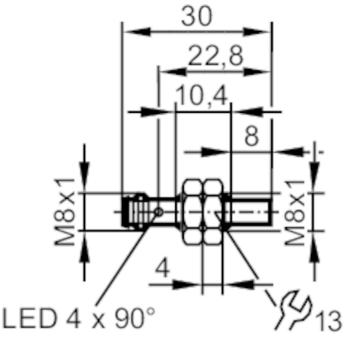
IE5422

Inductive sensor

IEB3004-APKG/V4A/AS



Product characteristics		
Electrical design		PNP
Output function		normally closed
Sensing range	[mm]	4
Housing		threaded type
Dimensions	[mm]	M8 x 1 / L = 30
Application		
Special feature		Gold-plated contacts; Increased sensing range
Electrical data		
Operating voltage	[V]	10...30 DC
Current consumption	[mA]	< 10
Protection class		III
Reverse polarity protection		yes
Outputs		
Electrical design		PNP
Output function		normally closed
Max. voltage drop switching output DC	[V]	2.5
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]	4
Real sensing range Sr	[mm]	4 ± 10 %
Operating distance	[mm]	0...3.25
Increased sensing range		yes
Accuracy / deviations		
Correction factor		steel: 1 / stainless steel: 0.7 / brass: 0.5 / aluminium: 0.5 / copper: 0.4
Hysteresis	[% of Sr]	1...20
Switch point drift	[% of Sr]	-10...10

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Operating conditions			
Ambient temperature	[°C]	-25...70	
Protection		IP 65; IP 67; (with ifm socket duly screwed on)	
Tests / approvals			
EMC		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 emission	class B
MTTF	[years]	1443	
Embedded software included		yes	
UL approval		Ta	-25...70 °C
		Enclosure type	Type 1
		power supply	Limited Voltage/Current
		UL Approval no.	A017
		File number UL	E174191
Mechanical data			
Weight	[g]	15	
Housing		threaded type	
Mounting		non-flush mountable	
Dimensions	[mm]	M8 x 1 / L = 30	
Thread designation		M8 x 1	
Materials		stainless steel; sensing face: LCP orange; LED window: PPSU; lock nuts: stainless steel (316 / 1.4401)	
Tightening torque	[Nm]	A = 5 mm: 2 Nm; B = 5 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: gold-plated

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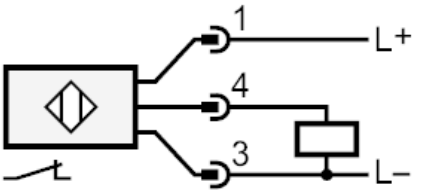
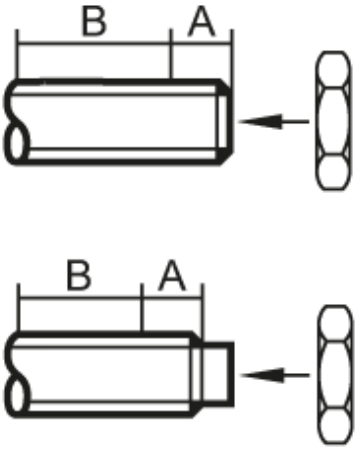
Connection



Diagrams and graphs

Installation