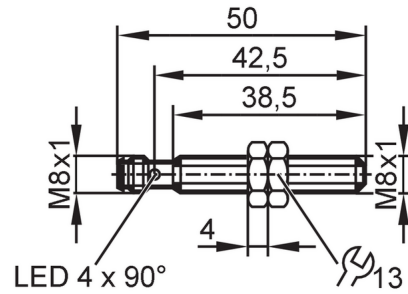


IE5287



Inductive sensor

IEB3002BBPKG/AS



Product characteristics

Electrical design		PNP
Output function		normally open
Sensing range	[mm]	2
Housing		threaded type
Dimensions	[mm]	M8 x 1 / L = 50

Application

Special feature		Increased sensing range
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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 open
Max. voltage drop switching output DC	[V]	2.5
Permanent current rating of switching output DC	[mA]	100
Switching frequency DC	[Hz]	1300
Short-circuit protection		yes
Overload protection		yes

Detection zone

Sensing range	[mm]	2
Real sensing range S_r	[mm]	$2 \pm 10\%$
Operating distance	[mm]	0...1.6
Increased sensing range		yes

Accuracy / deviations


Correction factor		steel: 1 / stainless steel: 0.7 / brass: 0.5 / aluminium: 0.4 / copper: 0.3
Hysteresis	[% of S_r]	1...20
Switch point drift	[mm]	-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	class B
MTTF	[years]	1379
Embedded software included		yes
UL approval	Ta	-25...70 °C
	Enclosure type	Type 1
	voltage supply	Limited Voltage/Current
	UL approval no.	A017
	File number UL	E174191
Mechanical data		
Weight	[g]	16
Housing		threaded type
Mounting		flush mountable
Dimensions	[mm]	M8 x 1 / L = 50
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		
		

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Connection



Diagrams and graphs

Installation

