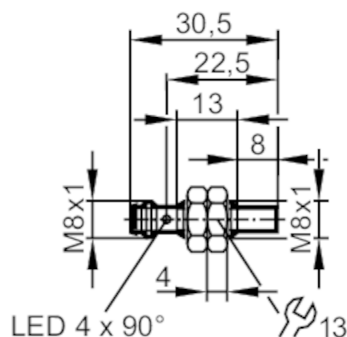




Inductive sensor

IEB3004-BPKG/V4A/AS



Product characteristics

Electrical design	PNP
Output function	normally open
Sensing range [mm]	4
Housing	Threaded type
Dimensions [mm]	M8 x 1 / L = 30.5

Electrical data

Operating voltage [V]	10...30 DC; (; to PELV)
Current consumption [mA]	15; (24 V)
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]	800
Short-circuit protection	yes
Type of short-circuit protection	yes (non-latching)
Overload protection	yes

Monitoring range

Sensing range [mm]	4
Real sensing range Sr [mm]	4 ± 10 %
Operating distance [mm]	0...3.25

Accuracy / deviations

Correction factor	steel: 1 / stainless steel: 0.7 / brass: 0.5 / aluminum: 0.4 / copper: 0.3
Hysteresis [% of Sr]	1...20
Switch-point drift [% of Sr]	-10...10

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Inductive sensor

IEB3004-BPKG/V4A/AS

Operating conditions		
Ambient temperature	[°C]	-20...70
Protection		IP 65; IP 67; (with ifm socket duly screwed on)
Tests / approvals		
EMC	EN 55011 emission	class B
	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 61000-4-5 Surge	0,5 kV line to line, Ri: 2 Ohm
	EN 61000-4-6 HF conducted	10 V
MTTF	[years]	1447
UL approval	Ta	-20...70 °C
	Enclosure type	Type 1
	voltage supply	Class 2
	File number UL	E174191
Mechanical data		
Weight	[g]	14.9
Housing		Threaded type
Mounting		non-flush mountable
Dimensions	[mm]	M8 x 1 / L = 30.5
Thread designation		M8 x 1
Material		housing: stainless steel; cover: LCP orange; lock nuts: stainless steel
Tightening torque	[Nm]	A = 5 mm: ≤ 2 Nm; B: ≤ 6 Nm
Displays / operating elements		
Display	Switching status	4 x 90° LED, yellow
Accessories		
Items supplied		lock nuts: 2
Remarks		
Pack quantity		1 pcs.
Electrical connection - plug		
Connector: 1 x M8; coding: A		
		

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Inductive sensor

IEB3004-BPKG/V4A/AS

Connection



Diagrams and graphs

Installation

