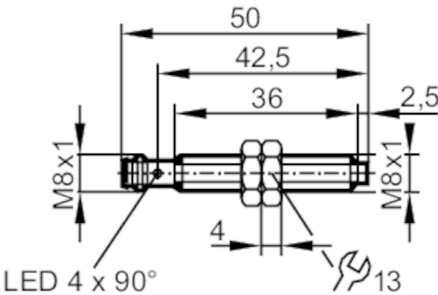




Inductive sensor

IEB30,2-BPKG/AS



Product characteristics		
Electrical design		PNP
Output function		normally open
Sensing range	[mm]	0.2; (for target made of mild steel)
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		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]	300
Short-circuit protection		yes
Overload protection		yes
Detection zone		
Sensing range	[mm]	0.2; (for target made of mild steel)
Real sensing range Sr	[mm]	0.2 ± 10 %
Accuracy / deviations		
Correction factor		steel: 1 / stainless steel: 0.7 / brass: 0.5 / aluminium: 0.4 / copper: 0.3
Hysteresis	[mm]	0.002...0.025
Switch point drift	[mm]	> 0.04
Repeatability	[mm]	< 0.015
Operating conditions		
Ambient temperature	[°C]	0...80
Protection		IP 65; IP 67; (with ifm socket duly screwed on)

IE5339



Inductive sensor

IEB30,2-BPKG/AS

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
Impact resistance	EN 60068-2-75 Ehc	
Vibration resistance	EN 60068-2-6 Fc	
Shock resistance	EN 60068-2-27 Ea	
Continuous shock resistance	EN 60068-2-29 Eb	
Fast temperature change	EN 60068-2-14 Na	
Salt spray test	EN 60068-2-52 Kb	
MTTF [years]		1379
Embedded software included		yes
UL approval	Ta	0...80 °C
	Enclosure type	Type 1
	power supply	Limited Voltage/Current
	UL Approval no.	A017
	File number UL	E174191

Mechanical data

Weight [g]	18.8
Housing	threaded type
Mounting	non-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: 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 x LED, yellow
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Accessories

Items supplied	lock nuts: 2
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Remarks

Pack quantity	1 pcs.
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Electrical connection - plug

Connector: 1 x M8; coding: A



IE5339



Inductive sensor

IEB30,2-BPKG/AS

Connection



Diagrams and graphs

Installation

