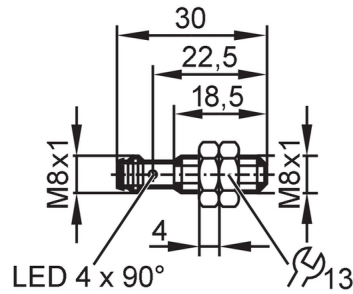


# IE5366



## Inductive sensor

IEB3002BBPKG/V4A/AS



### Product characteristics

Electrical design		PNP
Output function		normally open
Sensing range	[mm]	2
Housing		threaded type
Dimensions	[mm]	M8 x 1 / L = 30

### Application

Special feature		Gold-plated contacts; Increased sensing range
Application		Industrial applications / factory automation; Use in machine tools, coolants and lubricants

### 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]	800
Short-circuit protection		yes
Overload protection		yes

### Detection zone

Sensing range	[mm]	2
Real sensing range Sr	[mm]	2 ± 10 %
Operating distance	[mm]	0...1.62
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 Sr]	1...20
Switch point drift	[% of Sr]	-10...10

# IE5366



## Inductive sensor

IEB3002BBPKG/V4A/AS

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]	1462
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]	13.2
Housing		threaded type
Mounting		flush mountable
Dimensions	[mm]	M8 x 1 / L = 30
Thread designation		M8 x 1
Materials		stainless steel (316 / 1.4401); 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 x LED, yellow
Accessories		
Items supplied		lock nuts: 2
Remarks		
Pack quantity		1 pcs.
Electrical connection - plug		
Connector: 1 x M8; coding: A; Contacts: 3, gold-plated		
		

# IE5366



## Inductive sensor

IEB3002BBPKG/V4A/AS

### Connection



### Diagrams and graphs

#### Installation

