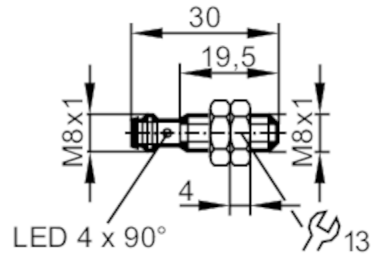


# IE5412



## Inductive sensor

IEB31,5-BPKG/AS-514-TPS



### Product characteristics

Electrical design	PNP
Output function	normally open
Sensing range [mm]	1.5
Housing	threaded type
Dimensions [mm]	M8 x 1 / L = 30

### Electrical data

Operating voltage [V]	10...30 DC
Current consumption [mA]	< 9
Protection class	II
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]	200
Switching frequency DC [Hz]	3000
Short-circuit protection	yes
Type of short-circuit protection	pulsed
Overload protection	no

### Detection zone

Sensing range [mm]	1.5
Real sensing range Sr [mm]	1.5 ± 10 %
Operating distance [mm]	0...1.2

### Accuracy / deviations

Correction factor	steel: 1 / stainless steel: 0.7 / brass: 0.4 / aluminium: 0.3 / copper: 0.2
Hysteresis [% of Sr]	< 15
Switch point drift [% of Sr]	-10...10

### Operating conditions

Ambient temperature [°C]	-25...70
Protection	IP 68

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## Inductive sensor

IEB31,5-BPKG/AS-514-TPS

Tests / approvals		
EMC	EN 60947-5-2	
MTTF [years]		835
UL approval	Ta	0...40 °C
	voltage supply	Class 2
	File number UL	E174191

Mechanical data		
Weight [g]		20.5
Housing		threaded type
Mounting		flush mountable
Dimensions [mm]		M8 x 1 / L = 30
Thread designation		M8 x 1
Materials		housing: stainless steel; sensing face: PA

Displays / operating elements		
Display	switching status	4 x 90° LED, yellow

Accessories		
Accessories (supplied)		lock nuts: 2

Remarks		
Pack quantity		1 pcs.

### Electrical connection - plug

Connector: 1 x M8



### Connection

