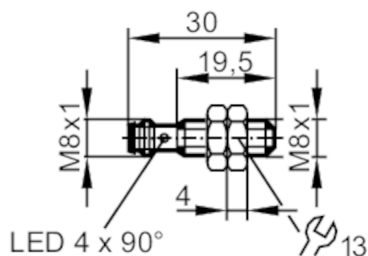


IE5412



Inductive sensor

IEB31,5-BPKG/AS-514-TPS



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 S_r	[mm]	$1.5 \pm 10 \%$
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 S_r]	< 15
Switch point drift	[% of S_r]	-10...10

Operating conditions

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

Tests / approvals

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

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Mechanical data

Weight	[g]	20
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
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Accessories

Accessories (supplied)	lock nuts: 2
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Remarks

Pack quantity	1 pcs.
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Electrical connection - plug

Connector: 1 x M8



Connection

