

IE5412



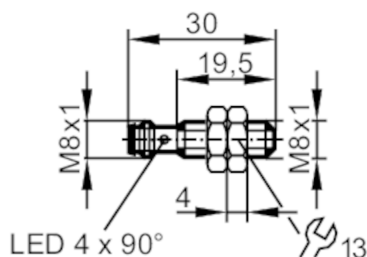
Inductive sensor

IEB31,5-BPKG/AS-514-TPS

phase-out article

Alternative articles: IE5416

When selecting an alternative article and accessories please note that technical data may differ!



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
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Hysteresis	[% of Sr]	< 15
Switch point drift	[% of Sr]	-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
	power 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
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Accessories

Items supplied		lock nuts: 2
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Remarks

Notes		phase-out article
Pack quantity		1 pcs.

Electrical connection - plug

Connector: 1 x M8; coding: A





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Connection

