

IE5412



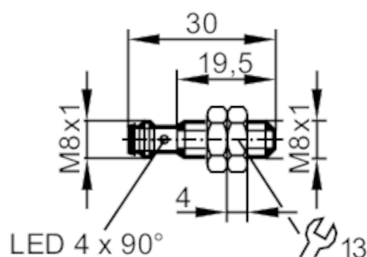
Inductive sensor

IEB31,5-BPKG/AS-514-TPS

Article to be discontinued

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	yes (non-latching)
Overload protection	no

Monitoring range

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 / aluminum: 0.3 / copper: 0.2
-------------------	--

IE5412



Inductive sensor

IEB31,5-BPKG/AS-514-TPS

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
	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
Material		housing: stainless steel; sensing face: PA

Displays / operating elements

Display	Switching status	4 x 90° LED, yellow
---------	------------------	---------------------

Accessories

Items supplied	lock nuts: 2
----------------	--------------

Remarks

Notes	Article to be discontinued
Pack quantity	1 pcs.

Electrical connection - plug

Connector: 1 x M8; coding: A



IE5412



Inductive sensor

IEB31,5-BPKG/AS-514-TPS

Connection

