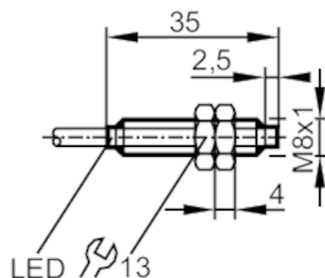


IE5406



Inductive sensor

IEB3003-BPKG/V4A/5M/US



Product characteristics

Electrical design	PNP
Output function	normally open
Sensing range [mm]	3
Housing	threaded type
Dimensions [mm]	M8 x 1 / L = 35

Electrical data

Operating voltage [V]	10...36 DC
Current consumption [mA]	< 15
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]	200
Switching frequency DC [Hz]	300
Short-circuit protection	yes
Type of short-circuit protection	pulsed
Overload protection	yes

Detection zone

Sensing range [mm]	3
Real sensing range S_r [mm]	$3 \pm 10\%$
Operating distance [mm]	0...2.4

Accuracy / deviations

Correction factor	steel: 1 / stainless steel: 0.7 / brass: 0.5 / aluminium: 0.4 / copper: 0.3
Hysteresis [% of S_r]	1...20
Switch point drift [% of S_r]	-10...10

Operating conditions

Ambient temperature [°C]	0...70
Protection	IP 67

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Tests / approvals

EMC	EN 61000-4-2 ESD	4 kV CD / 8 kV AD
	EN 61000-4-3 HF radiated	3 V/m
	EN 61000-4-4 Burst	2 kV
	EN 61000-4-5 Surge	0,5 kV line to line, Ri: 2 Ohm
	EN 61000-4-6 HF conducted	3 V
	EN 55011 emission	class B
MTTF	[years]	2819

Mechanical data

Weight	[g]	108
Housing		threaded type
Mounting		non-flush mountable
Dimensions	[mm]	M8 x 1 / L = 35
Thread designation		M8 x 1
Materials		stainless steel (1.4571/316Ti); sensing face: PBT

Displays / operating elements

Display	switching status	1 x LED, red
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Accessories

Items supplied		lock nuts: 2
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Remarks

Pack quantity		1 pcs.
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Electrical connection - plug

Cable: 5 m, PVC; 3 x 0.14 mm²

Connector: 1 x M12; coding: A



Connection

