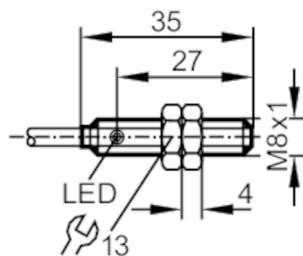


IE5406



Inductive sensor

IEB3003-BPKG/V4A/5M/US



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]	136.2
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
Electrical connection		
Connection		plug
Accessories		
Accessories (supplied)		lock nuts: 2
Remarks		
Pack quantity		1 pcs.
Electrical connection - plug		
Cable: 5 m, PVC; 3 x 0.14 mm ²		
Connector: 1 x M12		
		

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Connection

