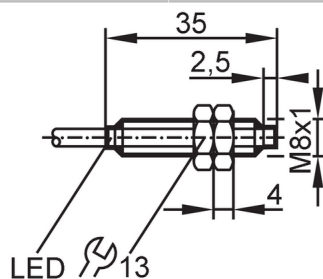




Inductive sensor

IEB3003-BPKG/V4A/2,5M/US RT



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	yes (non-latching)
Overload protection	yes

Monitoring range

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 / aluminum: 0.4 / copper: 0.3
Hysteresis [% of S_r]	1...15
Switch-point drift [% of S_r]	-10...10

Operating conditions

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

IE5377



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Tests / approvals		
EMC	EN 60947-5-2	
	EN 55011	class B
MTTF	[years]	2819

Mechanical data		
Weight	[g]	90.5
Housing		Threaded type
Mounting		non-flush mountable
Dimensions	[mm]	M8 x 1 / L = 35
Thread designation		M8 x 1
Material		stainless steel; sensing face: PBT

Displays / operating elements		
Display	Switching status	1 x LED, red

Accessories		
Items supplied		lock nuts: 2

Remarks		
Pack quantity		1 pcs.

Electrical connection - plug

Cable: 2.5 m, PVC; 3 x 0.14 mm²

Connector: 1 x M12; coding: A; Contacts: 4



Connection

