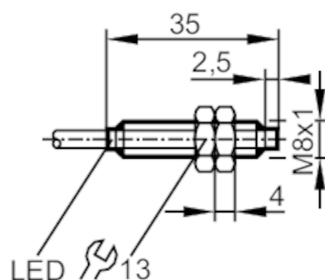




Inductive sensor

IEB3003-BPKG/V4A/3,5M/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

IE5378



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Tests / approvals

EMC	EN 60947-5-2	
	EN 55011	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
Material	stainless steel; 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: 3.5 m, PVC; 3 x 0.14 mm²

Connector: 1 x M12



Connection

