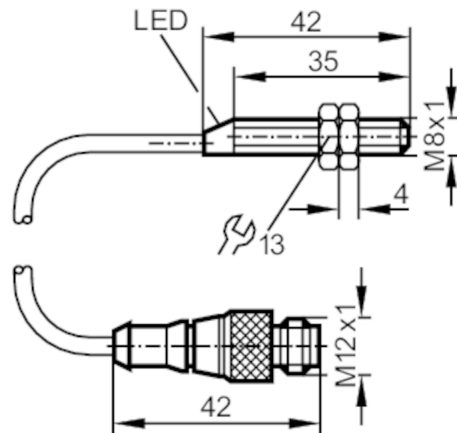


IE9902



Inductive sensor

IEB2002-BARKG/0,80M/PUR/US/RT



Electrical data

Operating voltage [V]	10...55 DC
Protection class	II
Reverse polarity protection	yes

Outputs

Electrical design	PNP/NPN
Output function	normally open
Max. voltage drop switching output DC [V]	4.5
Minimum load current [mA]	5
Max. leakage current [mA]	0.6
Permanent current rating of switching output DC [mA]	100
Switching frequency DC [Hz]	1000
Short-circuit protection	yes
Type of short-circuit protection	pulsed
Overload protection	yes

Detection zone

Sensing range [mm]	2
Real sensing range S_r [mm]	$2 \pm 10\%$
Operating distance [mm]	0...1.62

Accuracy / deviations

Correction factor	steel: 1 / stainless steel: 0.7 / brass: 0.5 / aluminium: 0.4 / copper: 0.3
Hysteresis [% of S_r]	3...15
Switch point drift [% of S_r]	-10...10

Operating conditions

Ambient temperature [°C]	-25...80
Protection	IP 67

IE9902



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Tests / approvals

EMC	EN 60947-5-2	
	EN 55011	class B
MTTF [years]		2460

Mechanical data

Weight [g]	44.4
Housing	threaded type
Mounting	flush mountable
Dimensions [mm]	M8 x 1 / L = 42
Thread designation	M8 x 1
Materials	brass white bronze coated

Displays / operating elements

Display	switching status	1 x LED, red
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Electrical connection

Connection	plug
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Accessories

Accessories (supplied)	lock nuts: 2
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Remarks

Pack quantity	1 pcs.
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Electrical connection - plug

Cable: 0.8 m, PUR
Connector: 1 x M12; Locking: rotatable



Connection

