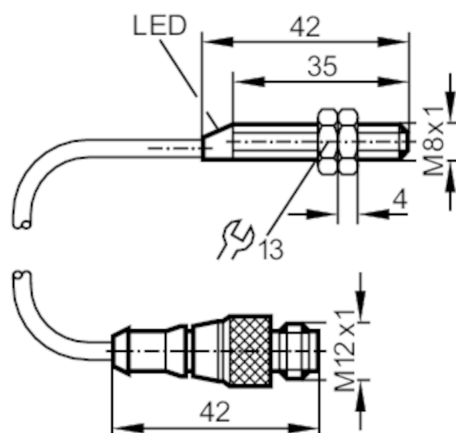


Inductive sensor

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



Product characteristics

Electrical design	PNP/NPN
Output function	normally open
Sensing range [mm]	2
Housing	threaded type
Dimensions [mm]	M8 x 1 / L = 42

Electrical data

Operating voltage [V]	10...55 DC
Protection class	III
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



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Accuracy / deviations			
Correction factor		steel: 1 / stainless steel: 0.7 / brass: 0.5 / aluminium: 0.4 / copper: 0.3	
Hysteresis	[% of Sr]	3...15	
Switch point drift	[% of Sr]	-10...10	
Operating conditions			
Ambient temperature		[°C]	-25...80
Protection		IP 67	
Tests / approvals			
EMC		EN 60947-5-2	
		EN 55011	class B
MTTF		[years]	2460
Mechanical data			
Weight		[g]	43
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
Accessories			
Items supplied		lock nuts: 2	
Remarks			
Pack quantity		1 pcs.	
Electrical connection - plug			
Cable: 0.8 m, PUR			
Connector: 1 x M12; coding: A; Locking: rotatable			
			

IE9902



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Connection

