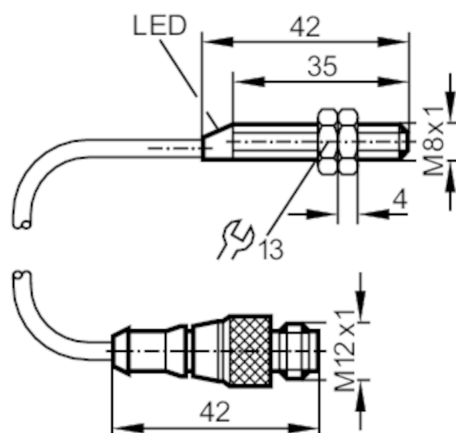




Inductive sensor

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	yes (non-latching)
Overload protection	yes

Monitoring range

Sensing range [mm]	2
Real sensing range Sr [mm]	2 ± 10 %
Operating distance [mm]	0...1.62

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Accuracy / deviations		
Correction factor	steel: 1 / stainless steel: 0.7 / brass: 0.5 / aluminum: 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
Material		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		
		

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Connection

