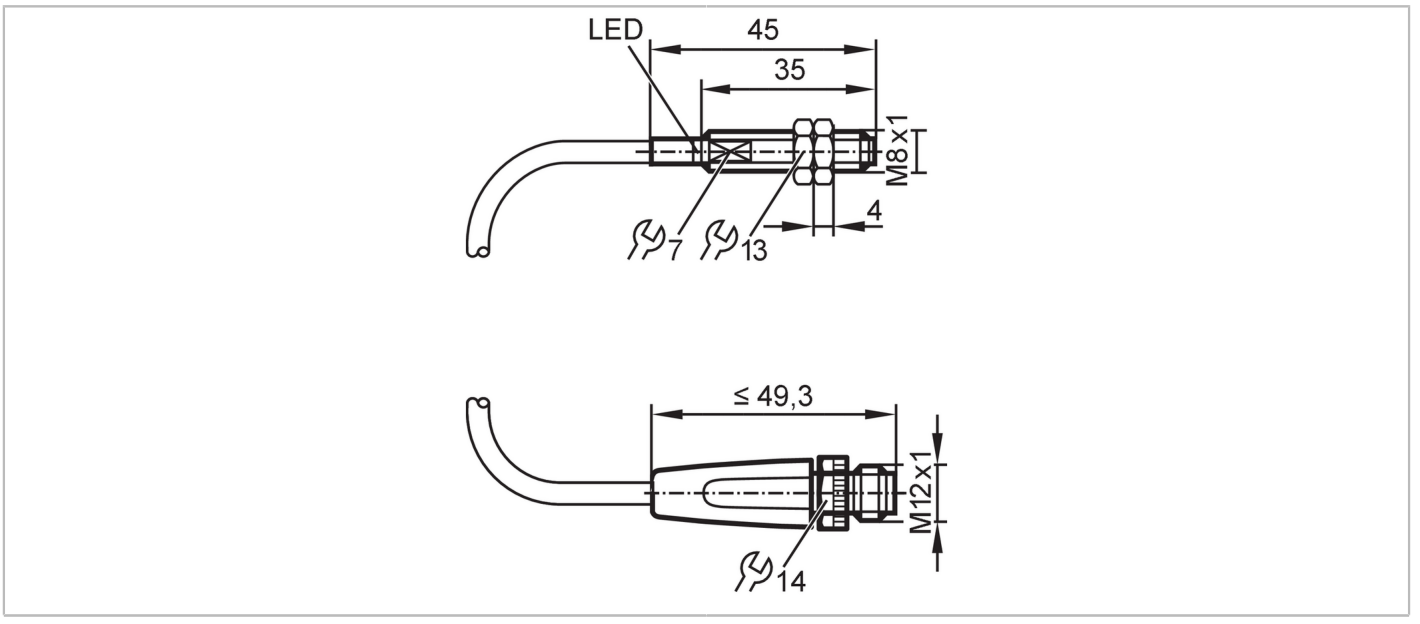
IER206

Inductive full-metal sensor

IEB2002BARKG/AM/SC/UP/0,3M/US/



Product characteristics		
Electrical design		PNP/NPN
Output function		normally open
Sensing range	[mm]	2
Housing		threaded type
Dimensions	[mm]	M8 x 1 / L = 45
Application		
Special feature		Gold-plated contacts; Increased sensing range; Full-metal housing; Optical setting aid
Application		For use where space is restricted; Use in welding applications
Pressure rating	[bar]	50
Note on pressure rating		sensing face
Electrical data		
Operating voltage	[V]	10...36 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]	2
Max. leakage current	[mA]	0.75
Permanent current rating of switching output DC	[mA]	100
Switching frequency DC	[Hz]	150
Short-circuit protection		yes

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Type of short-circuit protection			pulsed
Overload protection			yes
Detection zone			
Sensing range	[mm]		2
Operating distance	[mm]		0...1.6
Increased sensing range			yes
Accuracy / deviations			
Correction factor			steel: 1 / stainless steel: 0.6 / brass: 0.4 / aluminium: 0.3 / copper: 0.2
Hysteresis	[% of Sr]		1...20
Operating conditions			
Ambient temperature	[°C]		-25...70
Protection			IP 67
Tests / approvals			
EMC		EN 61000-4-2 ESD	4 kV CD / 8 kV AD
		EN 61000-4-3 HF radiated	10 V/m
		EN 61000-4-4 Burst	2 kV
		EN 61000-4-6 HF conducted	10 V
		EN 55011	class B
Impact resistance			1 J
MTTF	[years]		1460
UL approval		Ta	0...40 °C
		Enclosure type	Type 1
		voltage supply	Limited Voltage/Current
		File number UL	E174191
Mechanical data			
Weight	[g]		35.9
Housing			threaded type
Mounting			flush mountable
Dimensions	[mm]		M8 x 1 / L = 45
Thread designation			M8 x 1
Materials			housing: stainless steel (316L/1.4404) anti-spatter; sensing face: stainless steel (316L/1.4404) anti-spatter; lock nuts: stainless steel (316L/1.4404) anti-spatter
Full-metal housing			yes
Displays / operating elements			
Display		switching status	1 x LED, green
		setting aid	1 x LED, red
Optical setting aid			yes
Accessories			
Items supplied			lock nuts: 2
Remarks			
Pack quantity			1 pcs.

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Electrical connection - plug

Cable: 0.3 m, PUR; 2 x 0.34 mm²

Connector: 1 x M12; coding: A; Contacts: 2, gold-plated



