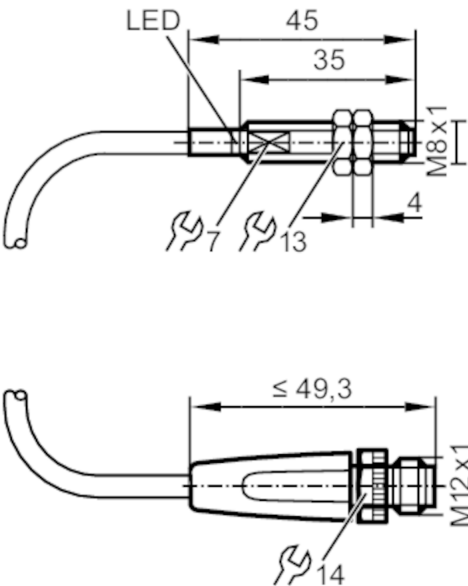


IER203



Inductive full-metal sensor

IEB2002BARKG/AM/SC/0,3M/US/2LE



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	
System	gold-plated contacts; Increased sensing range; Full-metal housing; optical setting aid
Application	Inductive sensors for 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]	2.5
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

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Short-circuit protection		yes	
Type of short-circuit protection		yes (non-latching)	
Overload protection		yes	
Monitoring range			
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 / aluminum: 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]	1384
UL approval		Ta	0...40 °C
		Enclosure type	Type 1
		voltage supply	Limited Voltage/Current
		File number UL	E174191
Mechanical data			
Weight		[g]	34.7
Housing		Threaded type	
Mounting		flush mountable	
Dimensions		[mm]	M8 x 1 / L = 45
Thread designation		M8 x 1	
Material		housing: stainless steel (1.4404 / 316L) weld coated; sensing face: stainless steel (1.4404 / 316L) weld coated; lock nuts: stainless steel (1.4404 / 316L) weld coated	
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: gold-plated



Connection

