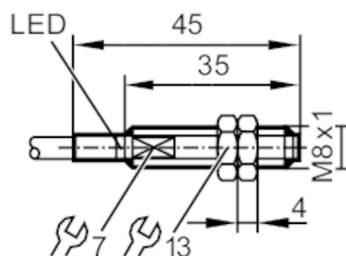


Inductive full-metal sensor

IEB2002BARKG/AM/SC/3,0M/2LED



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	Increased sensing range; Full-metal housing; Optical setting aid
Application	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]	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
Short-circuit protection	yes
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



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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]	1384
UL approval		Ta	0...40 °C
		Enclosure type	Type 1
		power supply	Limited Voltage/Current
		File number UL	E174191
Mechanical data			
Weight		[g]	73
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.

IER204



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Electrical connection

Cable: 3 m, PUR; 2 x 0.34 mm²

Connection



BN = Core colours :
brown
BU = blue