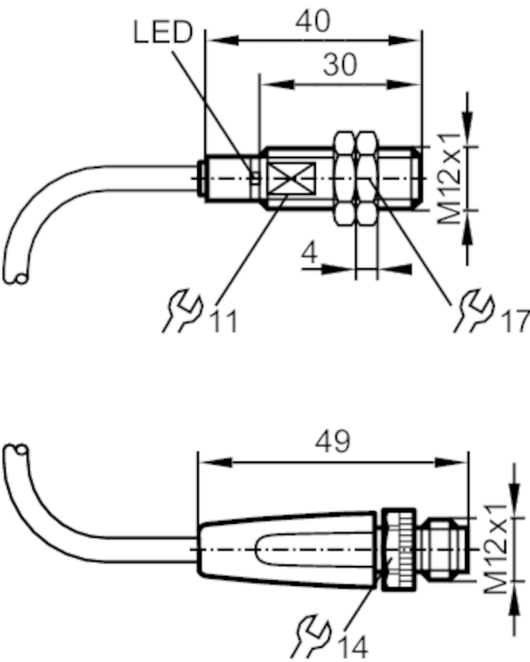


IFR203



Inductive full-metal sensor

IFB2004BARKG/AM/SC/0,3M/US/2LE



Product characteristics	
Electrical design	PNP/NPN
Output function	normally open
Sensing range [mm]	4
Housing	Threaded type
Dimensions [mm]	M12 x 1 / L = 40
Application	
System	gold-plated contacts; Increased sensing range; Full-metal housing; optical setting aid; weld coated
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]	0.6
Permanent current rating of switching output DC [mA]	100

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Switching frequency DC	[Hz]	75
Short-circuit protection		yes
Type of short-circuit protection		yes (non-latching)
Overload protection		yes
Monitoring range		
Sensing range	[mm]	4
Operating distance	[mm]	0...3.25
Increased sensing range		yes
Accuracy / deviations		
Correction factor		steel: 1 / stainless steel: 0.7 / brass: 0.2 / aluminum: 0.1 / copper: 0
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 emission	class B
Impact resistance		1 J
MTTF	[years]	960
UL approval	Ta	0...40 °C
	Enclosure type	Type 1
	voltage supply	Limited Voltage/Current
	File number UL	E174191
Mechanical data		
Weight	[g]	50
Housing		Threaded type
Mounting		flush mountable
Dimensions	[mm]	M12 x 1 / L = 40
Thread designation		M12 x 1
Material		housing: stainless steel (1.4404 / 316L) weld coated; sensing face: stainless steel (1.4404 / 316L) weld coated; cable plug: PA; 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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Inductive full-metal sensor

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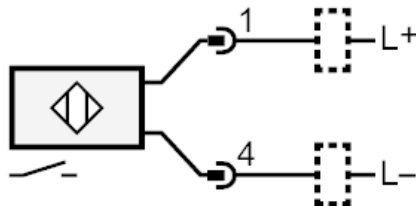
Electrical connection - plug

Cable: 0.3 m, PVC; 2 x 0.5 mm²

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



Connection



Diagrams and graphs

Installation

