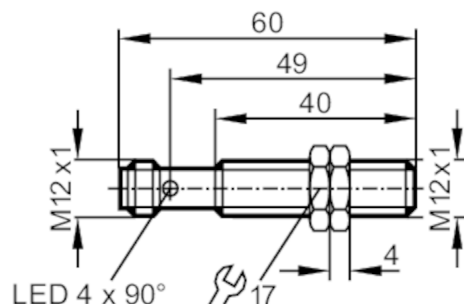


IFR200



Inductive full-metal sensor

IFK3004BBPKG/AM/SC/US-104-DPS



Application

Pressure rating	[bar]	100
Note on pressure rating		sensing face
Magnetic-field immune		yes; (pulse duration of the welding current: < 200 ms)

Electrical data

Operating voltage	[V]	10...36 DC
Current consumption	[mA]	< 20
Protection class		III
Reverse polarity protection		yes

Outputs

Electrical design		PNP
Output function		normally open
Max. voltage drop switching output DC	[V]	2.5
Permanent current rating of switching output DC	[mA]	100
Switching frequency DC	[Hz]	2
Short-circuit protection		yes
Type of short-circuit protection		pulsed
Overload protection		yes

Detection zone

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 / aluminium: 0.1 / copper: 0
Hysteresis	[% of Sr]	1...20

Operating conditions

Ambient temperature	[°C]	0...85
Protection		IP 67

IFR200



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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
MTTF	[years]	1315
UL approval	Ta	0...40 °C
	Enclosure type	Type 1
	voltage supply	Limited Voltage/Current
	File number UL	E174191

Mechanical data		
Weight	[g]	34.5
Housing		threaded type
Mounting		flush mountable
Dimensions	[mm]	M12 x 1 / L = 60
Thread designation		M12 x 1
Materials		housing: stainless steel (1.4404 / 316L) anti-spatter; sensing face: stainless steel (1.4404 / 316L) anti-spatter; plug: PA; lock nuts: stainless steel (1.4404 / 316L) anti-spatter
Tightening torque	[Nm]	10
Full-metal housing		yes

Displays / operating elements		
Display	switching status	4 x 90° LED, yellow
	operation	1 x LED, green

Accessories		
Accessories (supplied)		lock nuts: 2

Remarks		
Pack quantity		1 pcs.

Electrical connection - plug

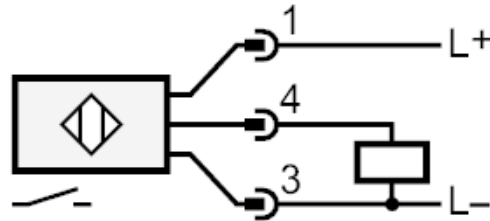
Connector: 1 x M12; Contacts: gold-plated



Inductive full-metal sensor

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Connection



Diagrams and graphs

Installation

