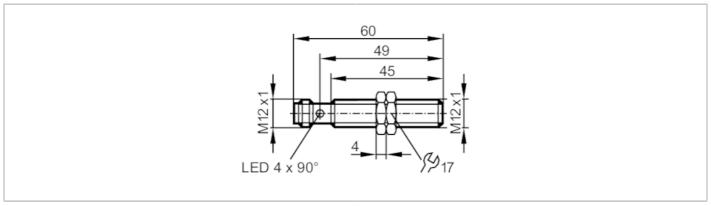
IFR200

Inductive full-metal sensor

IFK3004BBPKG/AM/SC/V4A/US-104







Product characteristics		
Electrical design		PNP
Output function		normally open
Sensing range	[mm]	4
Housing		threaded type
Dimensions	[mm]	M12 x 1 / L = 60
Application		
Special feature		Gold-plated contacts; Increased sensing range; Full- metal housing; Magnetic-field immune; anti-spatter
Application		Use in welding applications
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]	1030 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		pulsed
protection		<u> </u>
Overload protection		yes
Detection zone		
Sensing range	[mm]	4
Operating distance	[mm]	03.25

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Inductive full-metal sensor





Increased sensing range		yes		
Accuracy / deviations				
Correction factor		steel: 1 / stainless steel:	0.6 / brass: 0.7 / aluminium: 0.6 / copper: 0.3	
Hysteresis	[% of Sr]	120		
Operating conditions				
Ambient temperature	[°C]	085		
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]	1152		
Embedded software inclu	ıded	yes		
UL approval		Ta	-2570 °C	
		Enclosure type	Type 1	
		power supply	Limited Voltage/Current	
		UL Approval no.	A012	
		File number UL	E174191	
Mechanical data				
Weight	[g]		35	
Housing		threaded type		
Mounting		flush mountable		
Dimensions	[mm]	M12 x 1 / L = 60		
Thread designation		M12 x 1		
Materials		housing: stainless steel (316L/1.4404) anti-spatter; sensing		
		face: stainless steel (316L/1.4404) anti-spatter; LED window: PEI; lock nuts: stainless steel (316L/1.4404) anti-spatter		
Tiebte eine steuene	[N.I]	PEI; lock nuts: sta		
Tightening torque	[Nm]		6	
Full-metal housing			yes	
Displays / operating ele	ements			
Display		switching status	4 x 90° LED, yellow	
		operation	1 x LED, green	
Accessories				
Items supplied		lock nuts: 2		
Remarks				
Pack quantity			1 pcs.	
- 17			_ poo.	

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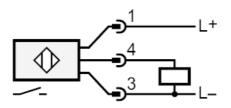


Electrical connection - plug

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



Connection



Diagrams and graphs

Installation

