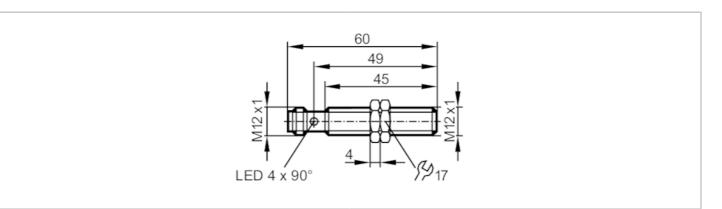
## IFR200

#### Inductive full-metal sensor



IFK3004BBPKG/AM/SC/V4A/US-104



# $\mathsf{C} \in \operatorname{Constant}^{\mathrm{U}} \mathsf{E} \mathsf{H} \mathsf{L} \mathsf{C} \mathsf{A}$

Due do et als ana stanistica					
Product characteristics					
Electrical design					
Output function		normally open			
Sensing range	[mm]	4			
Housing		Threaded type			
Dimensions	[mm]	M12 x 1 / L = 60			
Application					
System	stem gold-plated contacts; Increased sensing range; Full- metal housing; Magnetic-field immune; weld coated				
Application	plication Use in welding applications				
Pressure rating	[bar]	100			
Note on pressure rating	ote on pressure rating sensing face				
Magnetic-field immune	netic-field immune yes; (pulse duration of the welding current: < 200 ms)				
Electrical data					
Operating voltage	[V]	1030 DC			
Current consumption	[mA]	< 20			
Protection class	tection class III				
Reverse polarity protection	veverse 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		yes (non-latching)			
Overload protection		yes			

## IFR200

#### Inductive full-metal sensor

IFK3004BBPKG/AM/SC/V4A/US-104



Monitoring range					
Sensing range	[mm]	4			
Operating distance	[mm]	03.25			
Increased sensing range		yes			
Accuracy / deviations					
Correction factor		steel: 1 / stainless steel: 0.6 / brass: 0.7 / aluminum: 0.6 / copper: 0.3			
Hysteresis	[% of Sr]	120			
Operating conditions					
Ambient temperature	[°C]	085			
Protection	[ ]	IP 67			
		IP 67			
Tests / approvals					
		EN 61000-4-2 ESD	4 kV CD / 8 kV AD		
		EN 61000-4-3 HF radiated	10 V/m		
EMC		EN 61000-4-4 Burst	2 kV		
		EN 61000-4-6 HF conducted	10 V		
		EN 55011 emission	class B		
Impact resistance			1 J		
Embedded software included			yes		
UL approval		Та	-2570 °C		
		Enclosure type	Туре 1		
		voltage supply	Limited Voltage/Current		
		UL approval number	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			
Material		housing: stainless steel (1.4404 / 316L) weld coated; sensing face: stainless steel (1.4404 / 316L) weld coated; LED window: PEI; lock nuts: stainless steel (1.4404 / 316L) weld coated			
Tightening torque	[Nm]	6			
Full-metal housing		yes			
Displays / operating ele	ements				
		Switching status	4 x 90° LED, yellow		
Display		Power	1 x LED, green		
Accessories					
Items supplied lock nuts: 2			nuts: 2		
Remarks					
Pack quantity		1 pcs.			
Electrical connection - plug					
Connector: 1 x M12; coding: A: Contacts; gold-plated					

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

## IFR200

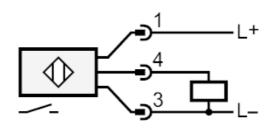
#### Inductive full-metal sensor

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Connection



### Diagrams and graphs

Installation

