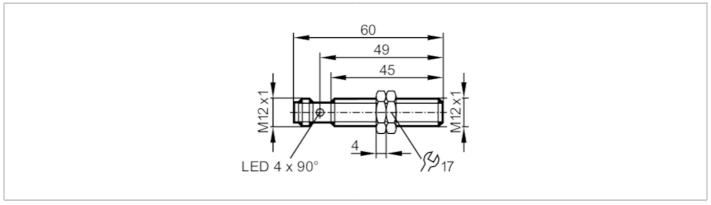
## **IFR200**

#### Inductive full-metal sensor

IFK3004BBPKG/AM/SC/V4A/US-104







Electrical design		PNP	
Output function	[	normally open	
Sensing range	[mm]	4	
Housing		Threaded type	
Dimensions	[mm]	M12 x 1 / L = 60	
Application			
System		gold-plated contacts; Increased sensing range; Full- metal housing; Magnetic-field immune; weld coated	
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 protection		yes (non-latching)	
Overload protection		yes	
Monitoring range			
Sensing range	[mm]	4	
Operating distance	[mm]	03.25	

## **IFR200**

#### Inductive full-metal sensor





Increased sensing range		yes		
Accuracy / deviations				
Correction factor		steel: 1 / stainless steel: 0	1.6 / brass: 0.7 / aluminum: 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	uded	yes		
UL approval		Ta	-2570 °C	
		Enclosure type	Type 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			
Display		Switching status	4 x 90° LED, yellow	
		Power	1 x LED, green	
Accessories				
Items supplied		lock nuts: 2		
Remarks				
Pack quantity		1 pcs.		

## **IFR200**

#### Inductive full-metal sensor



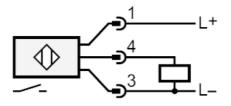


# Electrical connection - plug

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



### Connection



### Diagrams and graphs

Installation

