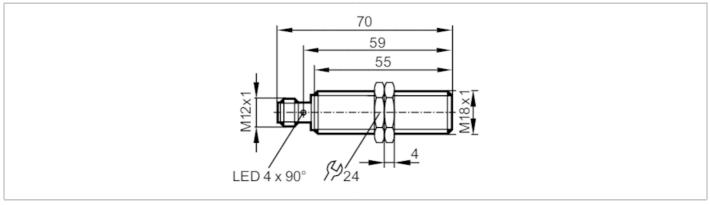
# **IGR200**

### Inductive full-metal sensor

IGK3006BBPKG/AM/SC/US-104







Product characteristics				
Electrical design		PNP		
Output function		normally open		
Sensing range	[mm]	6		
Housing		threaded type		
Dimensions	[mm]	M18 x 1 / L = 70		
Application				
Special feature		Gold-plated contacts; Increased sensing range; Full-metal housing; Magnetic-field immune		
Application		Use in welding applications		
Pressure rating	[bar]	100		
Pressure rating	[MPa]	10		
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		pulsed		
Overload protection		yes		
Detection zone				
Sensing range	[mm]	6		

# **IGR200**

## Inductive full-metal sensor



IGK3006BBPKG/AM/SC/US-104

Operating distance	[mm]	04.9				
Increased sensing range		yes				
Accuracy / deviations						
Correction factor		steel: 1 / stainless steel: 0.7 / brass: 0.7 / aluminium: 0.5 / copper: 0.2				
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		
		power supply		Limited Voltage/Current		
		UL Approval no.		A012		
		File number UL		E174191		
Mechanical data						
Weight	[9]	61.5				
Housing		threaded type				
Mounting		flush mountable				
Dimensions	[mm]	M18 x 1 / L = 70				
Thread designation		M18 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				
Tightening torque	[Nm]	20				
Full-metal housing		yes				
Displays / operating elements						
Display		switching status		4 x 90° LED, yellow		
		operation		1 x LED, green		
Accessories						
Items supplied		lock nuts: 2				
Remarks						
Pack quantity		1 pcs.				

# **IGR200**

#### Inductive full-metal sensor

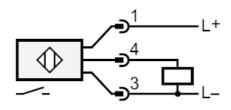




### **Electrical connection**



#### Connection



## Electrical connection - plug

Connector: 1 x M12; Contacts: gold-plated

## Diagrams and graphs

Installation

