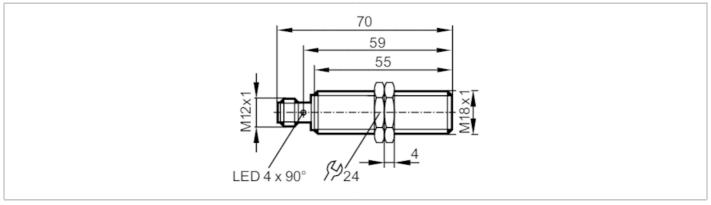
# **IGR200**

### 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; 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 protection		pulsed	
Overload protection		yes	
Detection zone			
Sensing range	[mm]	6	
Operating distance	[mm]	04.9	

# **IGR200**

### Inductive full-metal sensor



Increased sensing range



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 incli	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	[g]	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			
			el (316L/1.4404) anti-spatter; LED window: stainless steel (316L/1.4404) anti-spatter		
Tightening torque	[Nm]	20			
Full-metal housing		yes			
Displays / operating ele	ements		<u> </u>		
Display		switching status	4 x 90° LED, yellow		
والمناع		operation	1 x LED, green		
Accessories					
			lock nuts: 2		
Remarks					
Pack quantity		1 pcs.			
- aon quantity		± μcs.			

yes

# **IGR200**

#### Inductive full-metal sensor

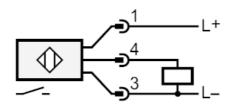




### Electrical connection



#### Connection



## Electrical connection - plug

Connector: 1 x M12; Contacts: gold-plated

## Diagrams and graphs

Installation

