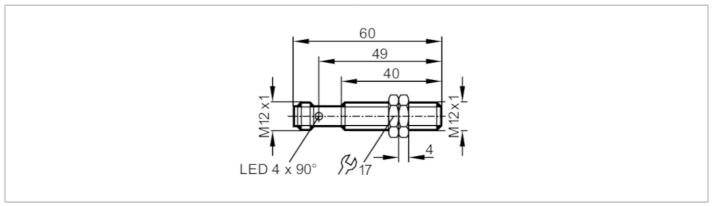
# **IFC263**

### Inductive full-metal sensor

IFK32,5BBPKG/AM/US-104/K0







Product characteristics			
Electrical design		PNP	
Output function		normally open	
Sensing range	[mm]	2.5	
Housing		threaded type	
Dimensions	[mm]	M12 x 1 / L = 60	
Application			
Special feature		Gold-plated contacts; Increased sensing range; Full-metal housing; Correction factor K = 0	
Application		Use in machine tools, coolants and lubricants	
Media		ferrous only; aluminium chip immune	
Pressure rating	[bar]	100	
Pressure rating	[MPa]	10	
Note on pressure rating		sensing face	
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]	100	
Short-circuit protection		yes	
Type of short-circuit protection		pulsed	
Overload protection		yes	
Detection zone			
Sensing range	[mm]	2.5	

# **IFC263**

## Inductive full-metal sensor



IFK32,5BBPKG/AM/US-104/K0

Operating distance	[mm]	02.02			
Increased sensing range		yes			
Accuracy / deviations					
Correction factor		steel: 1 / stainless steel: 0.5			
Hysteresis	[% of Sr]	120			
Correction factor K = 0		yes			
Operating conditions					
Ambient temperature	[°C]	-2570			
Protection		IP 68; ("Coolant")			
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	class B		
Impact resistance		EN 60068-2-27 Ehc	1 J		
MTTF	[years]		1258		
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]		28.1		
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); sensing face: stainless steel (316L/1.4404); LED window: PEI; lock nuts: brass white bronze coated			
Tightening torque	[Nm]	15			
Full-metal housing		yes			
Displays / operating ele	ments				
Display		switching status	4 x 90° LED, yellow		
Accessories					
Items supplied lock nuts: 2			lock nuts: 2		
Remarks					
Pack quantity		1 pcs.			

# **IFC263**

#### Inductive full-metal sensor

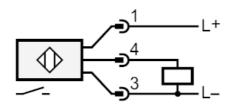


IFK32,5BBPKG/AM/US-104/K0

## **Electrical connection**



#### Connection



### Electrical connection - plug

Connector: 1 x M12; Contacts: gold-plated