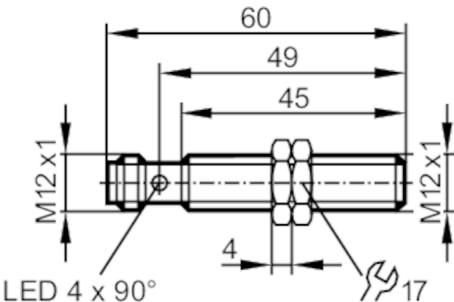


IFC261



Inductive full-metal sensor

IFK3003BAPKG/AM/V4A/US-104



Product characteristics		
Electrical design	PNP	
Output function	normally closed	
Sensing range [mm]	3	
Housing	threaded type	
Dimensions [mm]	M12 x 1 / L = 60	
Application		
Special feature	Gold-plated contacts; Full-metal housing	
Application	Use in machine tools, coolants and lubricants	
Pressure rating	100 bar	10 MPa
Note on pressure rating	sensing face	
Electrical data		
Operating voltage [V]	10...30 DC	
Current consumption [mA]	< 20	
Protection class	III	
Reverse polarity protection	yes	
Outputs		
Electrical design	PNP	
Output function	normally closed	
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]	3	
Operating distance [mm]	0...2.4	



Inductive full-metal sensor

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Accuracy / deviations		
Correction factor	steel: 1 / stainless steel: 0.6 / brass: 0.7 / aluminium: 0.6 / copper: 0.3	
Hysteresis	[% of Sr]	1...20
Operating conditions		
Ambient temperature	[°C]	-25...70
Protection	IP 67; 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 emission	class B
Impact resistance	1 J	
MTTF	[years]	1104
Embedded software included	no	
UL approval	Ta	-25...70 °C
	Enclosure type	Type 1
	power supply	Limited Voltage/Current
	UL approval no.	A012
	File number UL	E174191
Mechanical data		
Weight	[g]	28.7
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: stainless steel (316L/1.4404)	
Tightening torque	[Nm]	15
Full-metal housing	yes	
Displays / operating elements		
Display	switching status	4 x 90° LED, yellow
Accessories		
Items supplied	lock nuts: 2	
Remarks		
Pack quantity	1 pcs.	
Electrical connection - plug		
Connector: 1 x M12; coding: A; Contacts: gold-plated		
		

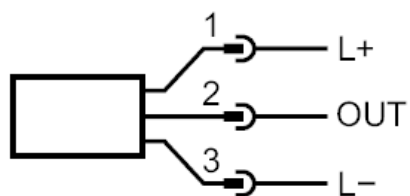
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Inductive full-metal sensor

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Connection



1	L+	
2	OUT	DO (NC)
3	L-	

DO: digital output; NC: normally closed