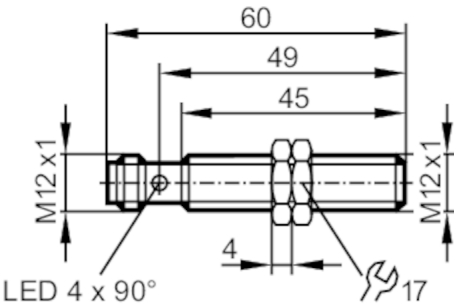




Inductive full-metal sensor

IFK3003BANKG/AM/V4A/US-104



Product characteristics		
Electrical design	NPN	
Output function	normally open	
Sensing range	[mm]	3
Housing	Threaded type	
Dimensions	[mm]	M12 x 1 / L = 60
Application		
System	gold-plated contacts; Full-metal housing	
Application	Oils and coolants	
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	NPN	
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	yes (non-latching)	
Overload protection	yes	
Monitoring range		
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 / aluminum: 0.6 / copper: 0.3
Hysteresis	[% of Sr]	1...20
Operating conditions		
Ambient temperature		[-25...70 °C]
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
MTTF	[years]	1177
Embedded software included		yes
UL approval	Ta	-25...70 °C
	Enclosure type	Type 1
	voltage supply	Limited Voltage/Current
	UL approval number	A012
	File number UL	E174191
Mechanical data		
Weight	[g]	28.3
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); sensing face: stainless steel (1.4404 / 316L); LED window: PEI; lock nuts: stainless steel (1.4404 / 316L)
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		



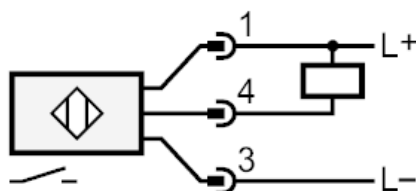
IFC266



Inductive full-metal sensor

IFK3003BANKG/AM/V4A/US-104

Connection



Electrical connection - plug

Connector: 1 x M12; Contacts: gold-plated