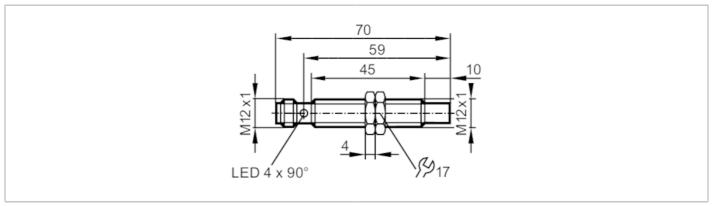
IFT245

Inductive full-metal sensor

IFK3006-BPKG/AM/P/US







Product characteristics			
Electrical design		PNP	
Output function		normally open	
Sensing range	[mm]	6	
Housing		threaded type	
Dimensions	[mm]	$M12 \times 1 / L = 70$	
Application			
Special feature		Gold-plated contacts; Increased sensing range; Full-metal housing	
Application		constant cleaning with aggressive cleaning agents; regular cleaning processes	
Pressure rating	[bar]	100	
Pressure rating	[MPa]	10	
Note on pressure rating		sensing face	
Electrical data			
Operating voltage	[V]	1030 DC	
Current consumption	[mA]	< 25	
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]	250	
Short-circuit protection		yes	
Overload protection		yes	
Detection zone			
Sensing range	[mm]	6	
Real sensing range Sr	[mm]	6 ± 10 %	
Operating distance	[mm]	04.9	
Increased sensing range		yes	

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IFK3006-BPKG/AM/P/US

Accuracy / deviations					
Correction factor		steel: 1 / stainless steel: 1 / brass: 0.9 / aluminium: 0.8 / copper: 0.6			
Hysteresis	[% of Sr]	120			
Switch point drift	[% of Sr]	-1010			
Operating conditions					
Ambient temperature	[°C]		0100		
Protection		IP 65; IP 67; IP 68; IP 69K			
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		EN 60068-2-75 Ehc	1 J		
MTTF	[years]	1265			
Embedded software inclu	uded	yes			
UL approval		Ta	070 °C		
		Enclosure type	Type 1		
		power supply	Limited Voltage/Current		
		UL Approval no.	A012		
		File number UL	E174191		
Mechanical data					
Weight	[g]	29.75			
Housing		threaded type			
Mounting		non-flush mountable			
Dimensions	[mm]	M12 x 1 / L = 70			
Thread designation		M12 x 1			
Materials		housing: stainless steel (316L/1.4404); sensing face: stainless steel (316L/1.4404); 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.		

IFT245

Inductive full-metal sensor



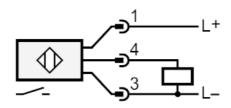


Electrical connection - plug

Connector: 1 x M12; coding: A; Contacts: gold-plated



Connection



Diagrams and graphs

