



Inductive sensor

IFB3007-APKG/V4A/US-104



Product characteristics		
Electrical design		PNP
Output function		normally closed
Sensing range	[mm]	7
Housing		threaded type
Dimensions	[mm]	M12 x 1 / L = 50
Application		
Special feature		Gold-plated contacts; Increased sensing range
Application		Use in hygienic areas / regular cleaning processes
Electrical data		
Operating voltage	[V]	10...30 DC
Current consumption	[mA]	< 10
Protection class		II
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]	800
Short-circuit protection		yes
Type of short-circuit protection		pulsed
Overload protection		yes
Detection zone		
Sensing range	[mm]	7
Real sensing range Sr	[mm]	7 ± 10 %
Operating distance	[mm]	0...5.67
Increased sensing range		yes



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Accuracy / deviations		
Correction factor		steel: 1 / stainless steel: 0.7 / brass: 0.5 / aluminium: 0.4 / copper: 0.3
Hysteresis	[% of Sr]	1...20
Switch point drift	[% of Sr]	-10...10
Operating conditions		
Ambient temperature		0...100 °C
Protection		IP 68; IP 69K; ("COP")
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
MTTF	[years]	1134
UL approval	Ta	0...40 °C
	Enclosure type	Type 1
	power supply	Limited Voltage/Current
	UL approval no.	A001
File number UL		E174191
Mechanical data		
Weight	[g]	25.5
Housing	threaded type	
Mounting	non-flush mountable	
Dimensions	[mm]	M12 x 1 / L = 50
Thread designation	M12 x 1	
Materials	housing: stainless steel (316L/1.4404); sensing face: PEEK natural; LED window: PEI; lock nuts: stainless steel (316L/1.4404)	
Tightening torque	[Nm]	15
Displays / operating elements		
Display	switching status	4 x 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		
2 1 3 		



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Connection

