

Inductive sensor

IIK3022-APKG/V4A/US-104



Product characteristics

Electrical design	PNP
Output function	normally closed
Sensing range [mm]	22
Housing	threaded type
Dimensions [mm]	M30 x 1.5 / L = 70

Application

Special feature	Gold-plated contacts
Application	Use in wet areas and in the food and beverage industry

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]	100
Short-circuit protection	yes
Type of short-circuit protection	pulsed
Overload protection	yes

Detection zone

Sensing range [mm]	22
Real sensing range S_r [mm]	$22 \pm 10 \%$
Operating distance [mm]	0...17.82



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Accuracy / deviations		
Correction factor	steel: 1 / stainless steel: 0.7 / brass: 0.5 / aluminium: 0.4 / copper: 0.3	
Hysteresis	[X01]	1...20
Switch point drift	[X01]	-10...10
Operating conditions		
Ambient temperature	[°C]	0...100
Protection	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 61000-4-5 Surge	0,5 kV line to line, Ri: 2 Ohm
	EN 61000-4-6 HF conducted	10 V
	EN 55011	class B
MTTF	[ANN]	1134
Mechanical data		
Weight	[g]	121.7
Housing	threaded type	
Mounting	non-flush mountable	
Dimensions	[mm]	M30 x 1.5 / L = 70
Thread designation	M30 x 1.5	
Materials	housing: stainless steel (1.4404 / 316L); sensing face: PEEK natural; LED window: PEI; lock nuts: stainless steel (1.4404 / 316L)	
Tightening torque	[Nm]	80
Displays / operating elements		
Display	switching status	4 x LED, yellow
Аксессуары		
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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Connection

