



Inductive sensor

IFKC007-ASKG/M/V4A/6M/WH



Electrical data

Operating voltage	[V]	10...30 DC
Current consumption	[mA]	12; (24 V)
Protection class		II
Reverse polarity protection		yes

Outputs

Electrical design		PNP/NPN
Output function		normally open
Max. voltage drop switching output DC	[V]	2.8
Minimum load current	[mA]	2; (only in 2-wire operation)
Max. leakage current	[mA]	0.5; (only in 2-wire operation)
Permanent current rating of switching output DC	[mA]	100
Switching frequency DC	[Hz]	700
Short-circuit protection		yes
Type of short-circuit protection		pulsed
Overload protection		yes

Detection zone

Sensing range	[mm]	7
Real sensing range S_r	[mm]	$7 \pm 10 \%$
Operating distance	[mm]	0...5.7
Increased sensing range		yes

Accuracy / deviations

Correction factor		steel: 1 / stainless steel: 0.7 / brass: 0.5 / aluminium: 0.4 / copper: 0.3
Hysteresis	[% of S_r]	3...15
Switch point drift	[% of S_r]	-10...10

Operating conditions

Ambient temperature	[°C]	0...100
Protection		IP 68; IP 69K



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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]	1287	
UL approval	Ta		0...40 °C
	Enclosure type		Type 1
	voltage supply		Limited Voltage/Current
	File number UL		E174191

Mechanical data

Weight	[g]	256.4
Housing	threaded type	
Mounting	non-flush mountable	
Dimensions	[mm]	M12 x 1 / L = 79
Thread designation	M12 x 1	
Materials	stainless steel (1.4404 / 316L); sensing face: PEEK	

Displays / operating elements

Display	switching status	1 x LED, yellow
	setting aid	1 x LED, red
Optical setting aid	yes	

Accessories

Accessories (supplied)	lock nuts: 2
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Remarks

Remarks	suitable for PLC type 1 according to IEC 61131-2
Pack quantity	1 pcs.

Electrical connection

Cable: 6 m, PVC; 3 x 0.34 mm²

Connection

