

Inductive sensor

IFC-04-ARKG SS-H-S

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Product characteristics

Electrical design		PNP/NPN
Output function		normally open
Sensing range	[mm]	4
Housing		Threaded type
Dimensions	[mm]	M12 x 1 / L = 42

Application

Installation		for valves; (38...63,5 (NW 40...65))
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Electrical data

Operating voltage	[V]	10...36 DC
Protection class		III
Reverse polarity protection		yes

Outputs

Electrical design		PNP/NPN
Output function		normally open
Max. voltage drop switching output DC	[V]	4.6
Minimum load current	[mA]	4
Max. leakage current	[mA]	0.6
Permanent current rating of switching output DC	[mA]	150
Switching frequency DC	[Hz]	1500
Short-circuit protection		yes
Type of short-circuit protection		yes (non-latching)
Overload protection		yes

Monitoring range

Sensing range	[mm]	4
Real sensing range Sr	[mm]	4 ± 10 %

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Operating distance	[mm]	0...3.25
Accuracy / deviations		
Correction factor		steel: 1 / stainless steel: 0.7 / brass: 0.4 / aluminum: 0.3 / copper: 0.2
Hysteresis	[% of Sr]	1...15
Switch-point drift	[% of Sr]	-10...10
Operating conditions		
Ambient temperature	[°C]	-25...80
Protection		IP 65
Tests / approvals		
EMC	EN 60947-5-2	
	EN 55011	class B
Mechanical data		
Weight	[g]	0.001
Housing		Threaded type
Mounting		non-flush mountable
Dimensions	[mm]	M12 x 1 / L = 42
Thread designation		M12 x 1
Material		PBT; Target: stainless steel (1.4301 / 304)
Displays / operating elements		
Display	Switching status	1 x LED, yellow
Accessories		
Items supplied		lock nuts: 2
		Target
Remarks		
Remarks		Note:
		The sensors are adjusted with the enclosed target flag.
		If an older type of target flag is used, there is a risk of mechanical damage to the sensor if they are not adjusted properly.
Pack quantity		1 pcs.

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Electrical connection - plug

Connector: 1 x valve plug type A DIN (DIN EN 175301-803)

