

Inductive sensor

IS-2002-FROG/0,14M/PH

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Product characteristics

Electrical design	PNP/NPN
Output function	normally open / normally closed; (selectable)
Sensing range [mm]	2
Housing	rectangular
Dimensions [mm]	28 x 10 x 16

Electrical data

Operating voltage [V]	5...36 DC
Reverse polarity protection	no

Outputs

Electrical design	PNP/NPN
Output function	normally open / normally closed; (selectable)
Max. voltage drop switching output DC [V]	4.6
Minimum load current [mA]	4
Max. leakage current [mA]	0.8
Permanent current rating of switching output DC [mA]	200
Switching frequency DC [Hz]	1000
Short-circuit protection	no
Overload protection	no

Detection zone

Sensing range [mm]	2
Real sensing range Sr [mm]	$2 \pm 10 \%$
Operating distance [mm]	0...1.62



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Accuracy / deviations			
Correction factor		steel: 1 / stainless steel: 0.9 / brass: 0.8 / aluminium: 0.6 / copper: 0.5	
Hysteresis	[% of Sr]	5	
Switch point drift	[% of Sr]	-10...10	
Operating conditions			
Ambient temperature		[°C]	-25...80
Protection			IP 67
Tests / approvals			
EMC		EN 60947-5-2	
Mechanical data			
Housing			rectangular
Mounting			flush mountable
Dimensions		[mm]	28 x 10 x 16
Materials			PBT
Displays / operating elements			
Display		switching status	1 x LED, yellow
Remarks			
Remarks		operating voltage "supply class 2" according to cULus	
		max. tightening torque 0.5 Nm with washer	
Pack quantity		1 pcs.	
Electrical connection			
Cable: 0.14 m, PUR / PVC; 2 x 0.14 mm²			
Connection			



Core colours :
BK = black
WH = white