

Inductive sensor

IS-3002-APKG/AS



Product characteristics

Electrical design	PNP
Output function	normally closed
Sensing range [mm]	2
Housing	rectangular
Dimensions [mm]	28 x 10 x 16

Electrical data

Operating voltage [V]	10...30 DC
Current consumption [mA]	15; (24 V)
Protection class	III
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]	200
Switching frequency DC [Hz]	800
Short-circuit protection	yes
Overload protection	yes

Detection zone

Sensing range [mm]	2
Real sensing range S_r [mm]	$2 \pm 10 \%$
Operating distance [mm]	0...1.6

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Accuracy / deviations			
Correction factor		steel: 1 / stainless steel: 0.7 / brass: 0.4 / aluminium: 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; IP 67; (with ifm socket duly screwed on)	
Tests / approvals			
EMC		EN 61000-4-2 ESD	- 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	[years]	3060	
Mechanical data			
Weight		[g]	11.1
Housing		rectangular	
Mounting		flush mountable	
Dimensions		[mm]	28 x 10 x 16
Materials		PBT	
Tightening torque		[Nm]	< 0.5; (with washer)
Displays / operating elements			
Display		switching status	4 x 90° LED, yellow
Remarks			
Pack quantity		1 pcs.	
Electrical connection - plug			
Connector: 1 x M8; coding: A			
			

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Connection

