

IS5044

Inductive sensor

IS-2002-FRKG/AS



Product characteristics

Electrical design	PNP/NPN
Output function	normally open / closed; (selectable)
Sensing range [mm]	2
Housing	rectangular
Dimensions [mm]	36.8 x 10.2 x 16

Application

System	Increased sensing range
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Electrical data

Operating voltage [V]	5...36 DC
Current consumption [mA]	< 15
Protection class	III
Reverse polarity protection	yes

Outputs

Electrical design	PNP/NPN
Output function	normally open / 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]	2000
Short-circuit protection	yes
Overload protection	yes

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Monitoring range		
Sensing range	[mm]	2
Real sensing range Sr	[mm]	2 ± 10 %
Operating distance	[mm]	0...1.62
Increased sensing range		yes
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 67
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
Impact resistance	EN 60068-2-75 Ehc	
Vibration resistance	EN 60068-2-6 Fc	
Shock resistance	EN 60068-2-27 Ea	
Continuous shock resistance	EN 60068-2-29 Eb	
Fast temperature changes	EN 60068-2-14 Na	
Salt spray test	EN 60068-2-52 Kb	
MTTF	[years]	2571
UL approval	Ta	-25...80 °C
	Enclosure type	Type 1
	voltage supply	Limited Voltage/Current
	File number UL	E174191
Mechanical data		
Weight	[g]	11.4
Housing		rectangular
Mounting		flush mountable
Dimensions	[mm]	36.8 x 10.2 x 16
Material		PBT
Tightening torque	[Nm]	< 0.5; (with washer)
Displays / operating elements		
Display	Switching status	4 x 90° LED, yellow
Remarks		
Pack quantity		1 pcs.

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Electrical connection - plug

Connector: 1 x M8; coding: A

