



REED SWITCH DEVELOPMENTS CORP.

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SPECIFICATION SHEET

2451-1901-100

Alternate Part Number:

AM2451-1901-10-01

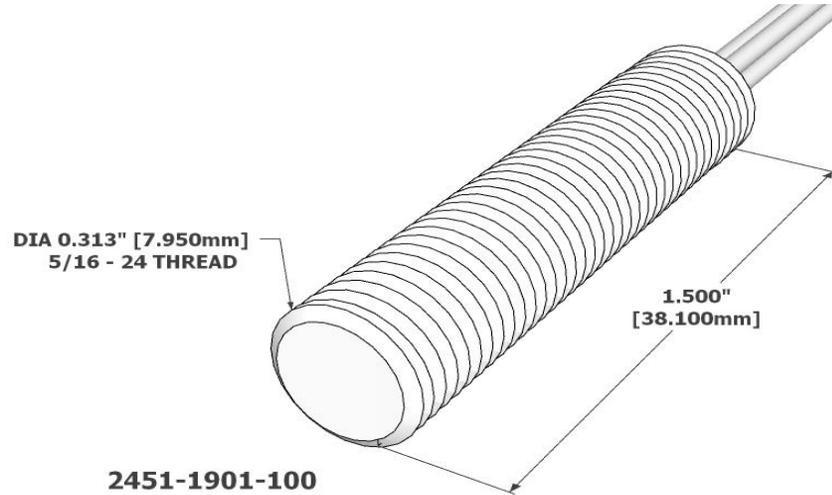
Active / Equivalent Part Numbers:

2451-1901-100 - Magnetic Reed Sensor Only

AM2451-1901-10-01 - Magnetic Reed Sensor Only

Sensor (Reed) - Specifications		1901	
Physical	Configuration	SPDT	
	Form	C	
	Contact Position	OFFSET	
	Glass L	14.00	mm
	Glass D	2.30	mm
	Total L*	55.00	mm
	Wire D	0.53	mm
	Gap Location		
	Mount Spec*	THRU	
	Contact Material	RHODIUM	
	Max Vibration Resistance	20	G
	Max Shock Resistance (11ms)	50	G
	Lead Tensile Strength	N/A	KG
Operating	Pull in (+/- 2AT)*	15-20	AT
	Drop out*	5	AT
	Operate Time	2.0	ms
	Bounce Time	0.60	ms
	Release Time	0.50	µs
	Resonant Frequency	N/A	Hz
	Max Operating Frequency	250	Hz
	Operating Temperature Range	-40 - 105	°C
	Storage Temperature	N/A	°C
	Electrical	DC Contact Rating	20
AC Contact Rating		20	VA
DC Switching Voltage		150	VDC
AC Switching Voltage		150	VAC
DC Switching Current		1.00	A
AC Switching Current		1.00	A
DC Max Carry Current		2.00	A
AC Max Carry Current		2.00	A
Min Breakdown Voltage		200	VDC
Max Initial Contact Resistance		150	mOhm
Typical Initial Contact Resistance		N/A	mOhm
Max Contact Capacitance		0.80	pF
Min Insulation Resistance		10 ⁹	Ohm

* Pre-processed, bare reed element



**2451-1901-100
Magnetic Reed Sensor**

All measurements are in Inches [millimeters]

Sensor - Wire/Cable Characteristics (cont.)

Type	Wire
Conductor Count	3
Length	6.0"/152.4mm
Colors	RED, BLK, WHT
Insulation Material	PVC
Gauge	24 AWG
Stranded Copper	7 STR-TC
Maximum Temp	105°C

Conductor Configuration

Common (COM) - WHITE
Normally Open (NO) - RED
Normally Closed (NC) - BLACK

For More Information Visit:

www.reedswitchdevelopments.com

Or Call Us At:

262-883-9060

Housing Characteristics 2451

Cylindrical Threaded (5/16-24)	
Length	1.500"/38.10mm
Width	0.313"/7.95mm
Material	Aluminum

Standard Sensor/Actuator - Min. Actuation Distance

2451-4006-000	0.31"/7.9mm
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Assembly Certifications

UL Recognized (File #: E102207)	Y
RoHS / Reach Compliant	Y
Conflict Free Material	Y

REV DATE: 10/06/2021

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