



**REED SWITCH DEVELOPMENTS CORP.**

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**SPECIFICATION SHEET**

**2451-1900-100**

Alternate Part Number:  
**AM2451-1900-10-01**

Active / Equivalent Part Numbers:

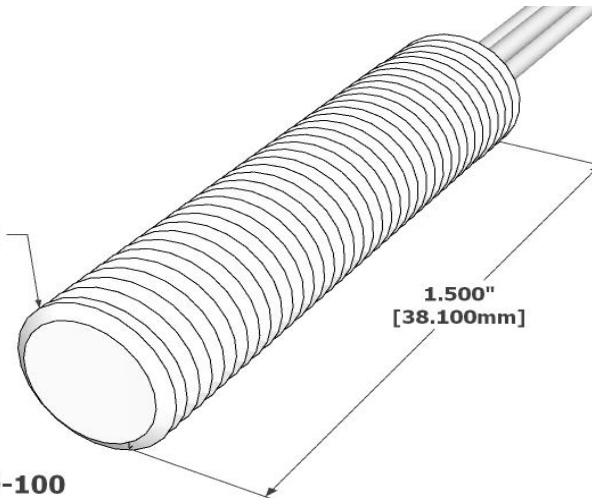
2451-1900-100 - Magnetic Reed Sensor Only

AM2451-1900-10-01 - Magnetic Reed Sensor Only

Sensor (Reed) - Specifications		1900	
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)*	20-25
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 <sup>9</sup>	Ohm

\* Pre-processed, bare reed element

DIA 0.313" [7.950mm]  
5/16 - 24 THREAD



**2451-1900-100  
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](http://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	0.19"/4.8mm
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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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**WBE Certified - State of Wisconsin - MFR CAGE CODE: 32604**

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