



**REED SWITCH DEVELOPMENTS CORP.**

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## SPECIFICATION SHEET

**2451-1301-400**

Alternate Part Number:

**AM2451-1301-10K01**

### Active / Equivalent Part Numbers:

**2451-1301-400 - KIT - Contains**

(1) 2451-1301-100 REV 001 - Magnetic Reed Sensor

(1) 2451-4006-000 - Magnetic Actuator

**AM2451-1301-10K01 - KIT - Contains**

(1) AM2451-1301-10-01 - Magnetic Reed Sensor

(1) AM2451-4006-00-01 - Magnetic Actuator

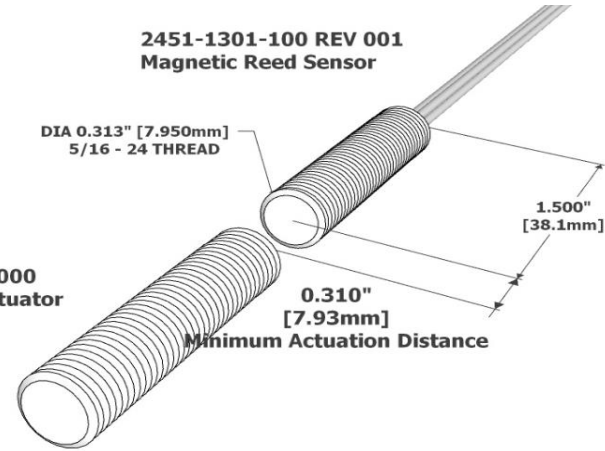
### Sensor (Reed) - Specifications 1901 \*\*

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

\* Pre-processed, bare reed element

\*\* THIS ASSEMBLY USES ALTERNATE REED

**2451-1301-100 REV 001  
Magnetic Reed Sensor**



**2451-4006-000  
Magnetic Actuator**

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

### Housing Characteristics 2451

Cylindrical Threaded (5/16-24)	
Length	1.500"/31.75mm
Diameter	0.313"/7.95mm
Material	Aluminum

### Standard Actuator: 2451-4006-000

Specifications	Description	UM
Magnetic Orientation	Through Length	
Max Operating Temp.	210/100	°F/°C
Curie Temp.	590/310	°F/°C
BR max	12.2	kGauss
BH max	35	MGOe
Coercive Force Hc	11.5	kOe
Intrinsic Coercive Force Hci	18	kOe

### Std. Sensor/Actuator - Min. Actuation Dist.

2451-4006-000	0.31"/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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