



REED SWITCH DEVELOPMENTS CORP.

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SPECIFICATION SHEET

2451-1900-400

Alternate Part Number:

AM2451-1900-10K01

Active / Equivalent Part Numbers:

2451-1900-400 - KIT - Contains

(1) 2451-1900-100 - Magnetic Reed Sensor

(1) 2451-4006-000 - Magnetic Actuator

AM2451-1900-10K01 - KIT - Contains

(1) AM2451-1900-10-01 - Magnetic Reed Sensor

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

Sensor (Reed) - Specifications 1900

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 ⁹	Ohm	
Pull in (+/- 2AT)*	20-25				
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

Sensor - Wire/Cable Characteristics (cont.)

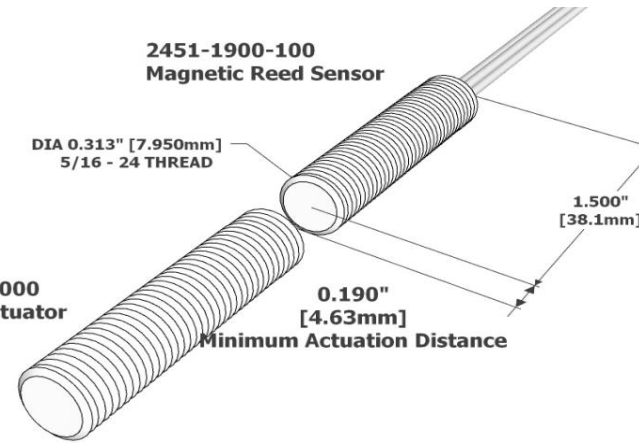
Type	Wire
Conductor Count	3
Length	6.0"/152.4mm
Colors	RED, BLK, WHT
Insulation Material	PVC
Gauge	24 AWG
Stranded Copper	7 STR-TC
Maximum Temp	105°C

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



All measurements are in Inches [millimeters]

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	0.19"/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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