

**SPECIFICATIONS**

**ELECTRICAL**

RESISTANCE: SEE TABLE  
 ELECTRICAL STROKE: 1.00 INCH, APPROX. CENTERED WITHIN THE MECHANICAL STROKE.  
 ELECTRICAL OVERTRAVEL: (0.035) EACH END  
 ELECTRICAL CONTINUITY: THROUGHOUT MECHANICAL STROKE  
 STROKE VELOCITY: 50 IN / SEC  
 LINEARITY: ±1% INDEPENDENT  
 OUTPUT SMOOTHNESS: 0.1% MAX  
 RESISTANCE TEMPERATURE COEFFICIENT: 400 PPM/°C MAX  
 POWER RATING: 1.0 WATT MAX @ 70°C,  
 DERATED TO 0.0 WATT @ 125°C  
 WIPER CONTACT CURRENT: 10 MILLIAMPS MAX  
 DIELECTRIC STRENGTH: 500 VRMS @ 60 Hz  
 INSULATION RESISTANCE: 100 MEG OHMS @ 500 VDC

**MECHANICAL**

MECHANICAL STROKE: 1.070 ±.020  
 ACTIVATION FORCE: 20 GRAMS MAX

**ENVIRONMENTAL**

OPERATING TEMPERATURE: -65°C TO +125°C  
 CYCLE LIFE: 50 MILLION CYCLES MIN  
 SHOCK: SAWTOOTH 100G PEAK PER MIL-STD-202  
 METHOD 213, TEST CONDITION I  
 VIBRATION: HIGH FREQ; SWEPT 10 - 2000HZ, 15G PEAK  
 PER MIL-STD-202 TEST CONDITION B

**MATERIALS**

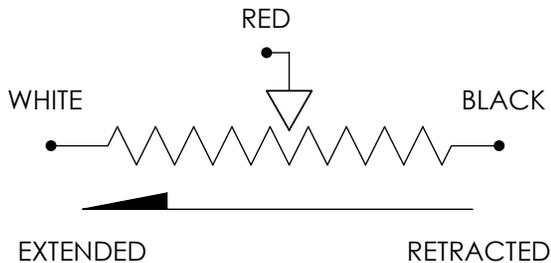
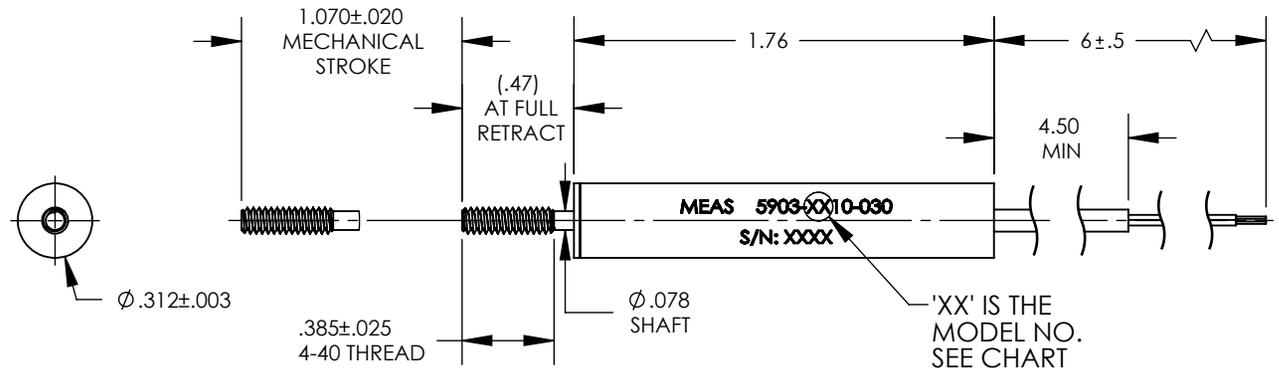
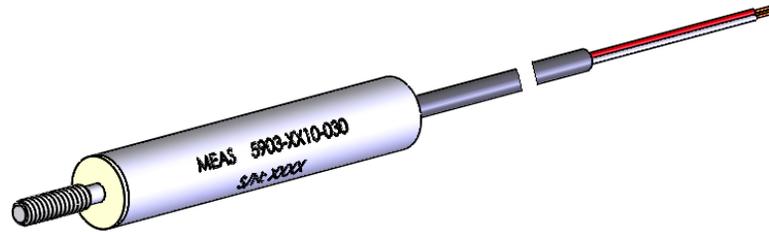
HOUSING: STAINLESS STEEL  
 SHAFT: PASSIVATED CENTERLESS GROUND SST  
 BEARINGS: VECTRA E130i  
 CONTACTS: MULTI-FINGER PRECIOUS METAL  
 ELEMENT: CO-MOLDED CONDUCTIVE PLASTIC  
 LEAD WIRES: 30 AWG TEFLON INSULATION, TYPE ET

**NOTES: UNLESS OTHERWISE SPECIFIED**

1. ALL ELECTRICAL, MECHANICAL, AND ENVIRONMENTAL SPECIFICATIONS ARE IAW MIL-PRF-39023

MODEL NO.	RESISTANCE (OHMS) ±10%
5903-0110-030	1,000Ω
5903-0210-030	2,000Ω
5903-0510-030	5,000Ω
5903-1010-030	10,000Ω

CHANGE HISTORY				
REV	DESCRIPTION	DATE	DRAWN	APPROVED
A	RELEASE	5/8/03	-	-
B0	ECN 2818-SSC	5/21/10	-	-
B1	ECN 2900-SSC	6/29/10	-	-
B2	ECN 4388-SSC	2/13/10	-	-
B3	ECN 5093	9/25/14	JDD	KJS
C0	ECN 5288	9/8/15	EML	BSJ



PROPRIETARY AND CONFIDENTIAL	EAR CONTROL	NAME	DATE
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		CHECKED	
		ENG APPR.	R. Privitt 5/8/03
		MFG APPR.	
DIMENSIONS ARE IN INCHES TOLERANCES: ANGULAR ±2° TWO PLACE DECIMAL ±.01 THREE PLACE DECIMAL ±.005 FOUR PLACE DECIMAL ±.0005	MATERIAL	Q.A.	
	FINISH	COMMENTS:	
	DO NOT SCALE DRAWING		

**measurement**  
SPECIALTIES™

**POTENTIOMETER**  
1" LINEAR MOTION - TABULATED

CAGE CODE 5W885 DWG. NO. 5903-XX10-030

SHEET 1 OF 1