

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

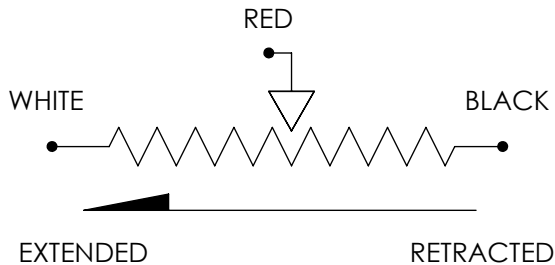
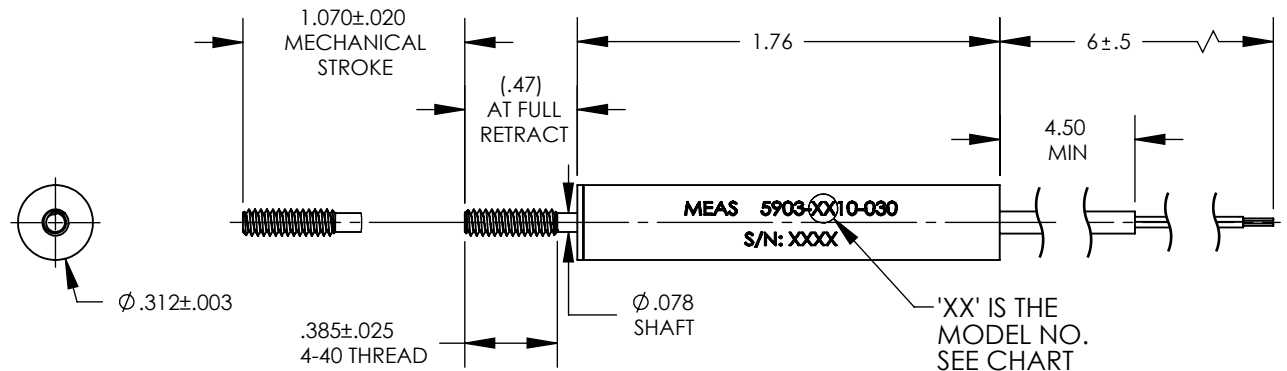
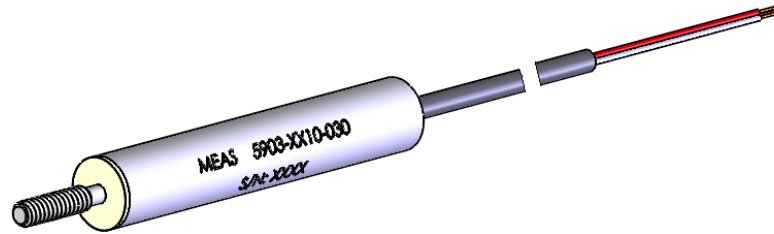
HOUSING: STAINLESS STEEL
 SHAFT: PASSIVATED CENTERLESS GROUND SST
 BEARINGS: VECTRA E130i
 CONTACTS: MULTI-FINGER PRECIOUS METAL
 ELEMENT: CO-MOLDED CONDUCTIVE PLASTIC
 LEAD WIRES: 30 AWG TEFLON INSULATION, TYPE ET

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



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

measurement SPECIALTIES™

POTENTIOMETER
1" LINEAR MOTION - TABULATED

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

SHEET 1 OF 1