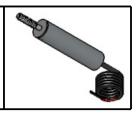


5903 Series

5/16 In. Dia. LINEAR MOTION PRECISION POTENTIOMETERS 1/2 In. ACTIVE STROKE

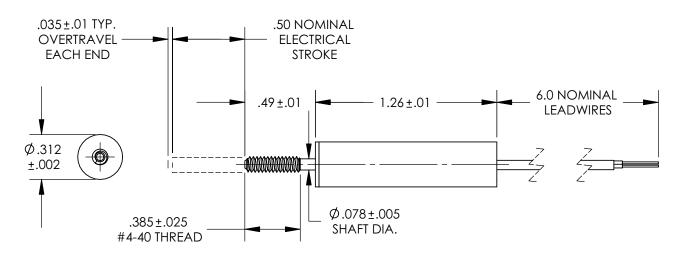


STANDARD PRODUCT OFFERING

SS&C PART NUMBER RESISTANCE

5903-0105-030 1KΩ ±10% 1K₁₂ ±10/0 5KΩ ±10% 5903-0505-030 **5903-1005-030** $10K\Omega \pm 10\%$

STANDARD PRODUCTS ALSO AVAILABLE WITH .75 In., 1.0 In., 1.5 In. AND 2.0 In. **STROKE LENGTHS**



STANDARD MODEL **ELECTRICAL CHARACTERISTICS**

RESISTANCE: ACTIVE ELECTRICAL STROKE:

1kΩ TO 10kΩ ±10 0.50 In. NOMINAL OTHER STROKE LENGTHS **AVAILABLE AS NOTED**

ELECTRICAL CONTINUITY STROKE: INDEPENDENT LINEARITY:

+1.0 END VOLTAGE: 0.5 MAX. **VOLTAGE RESOLUTION:** VIRTUALLY INFINITE **OUTPUT SMOOTHNESS:** 0.1 MAX. RESISTANCE TEMP. COEFFICIENT: 500PPM/°C MAX. 0.75 WATT MAX. POWER RATING @ 70°C: WIPER CONTACT CURRENT: 10 MilliAmps MAX.

DIELECTRIC STRENGTH: 1000 VRMS **INSULATION RESISTANCE:** 100 Meg Ω MIN.

SHAFT ROTATION: TOTAL WEIGHT (1-GANG): ALLOWABLE SHAFT PLAY: OVER MECH. STROKE

STANDARD ENVIRONMENTAL CHARACTERISTICS OPERATING TEMP. RANGE: -65°C To +125°C

100 x 10 STROKES MIN. **OPERATING LIFE:**

STANDARD MODEL

MECHANICAL CHARACTERISTICS

0.570±.020

0.75 Oz. MAX.

0.70 Oz. MAX.

CONTINUOUS (NO EFFECT)

.005 MAX. MISALIGNMENT

STANDARD MATERIALS OF CONSTRUCTION

HOUSING: SHAFT AND GUIDE RODS: RESISTANCE ELEMENT: **ELECTRICAL CONTACTS:** BEARINGS:

MECHANICAL STROKE:

ACTUATING FORCE:

LEADWIRES / JACKET:

STAINLESS STEEL (TUBING) STAINLESS STEEL CO-MOLDED CONDUCTIVE PLASTIC

MULTI-FINGER PRECIOUS METAL VECTRA E130i PLASTIC #30 AWG TYPE ET (TEFLON)

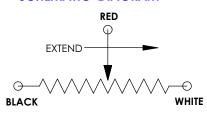
SHRINK TUBING JACKET

CONTACT:

SPECTRUM SENSORS & CONTROLS, INC. 424 CROWN POINT CIRCLE, GRASS VALLEY, CA 95945 (800) 880-7730 (530) 273-4608 FAX: (530) 273-0769

E-MAIL: sales@specsensors.com

SCHEMATIC DIAGRAM

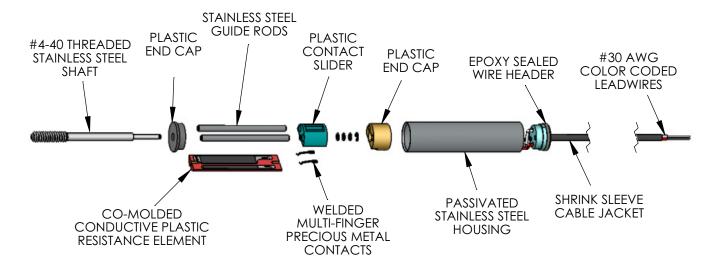




5903 Series

5/16 In. Dia. LINEAR MOTION PRECISION POTENTIOMETERS





STANDARD ELECTRICAL CHARACTERISTICS

RESISTANCES (±10): $1 K\Omega, \, 2 K\Omega, \, and \, 5 k\Omega$ ACTIVE ELECTRICAL STROKE: 0.5, 0.75, 1.0, 1.5, and 2.0 Inches **ELECTRICAL CONTINUITY:** THROUGHOUT MECH. STROKE INDEPENDENT LINEARITY: ±1.0 **END VOLTAGE:** 0.5 MAX. **VOLTAGE RESOLUTION:** VIRTUALLY INFINITE **OUTPUT SMOOTHNESS:** 0.1 MAX. RESISTANCE TEMP. COEFFICIENT: 500PPM/°C MAX.

POWER RATING @ 70°C: 1.0 WATT MAX. PER STROKE INCH WIPER CONTACT CURRENT: 10 Milliamps MAX. DIELECTRIC STRENGTH: 1000 VRMS

 $\begin{array}{ll} \text{DIELECTRIC STRENGTH:} & 1000 \text{ VRMS} \\ \text{INSULATION RESISTANCE:} & 100 \text{ Meg}\Omega \text{ Min.} \end{array}$

STANDARD MECHANICAL CHARACTERISTICS

MECHANICAL STROKE: ACTIVE STROKE + 0.07 IN. SHAFT ACTIVATION FORCE: 0.75 Oz. MAX. MAX. SHAFT MISALIGNMENT: 0.005 In. PERMISSIBLE

STANDARD ENVIRONMENTAL CHARACTERISTICS

OPERATING TEMP. RANGE: -65°C TO +125°C ROTATIONAL OPERATING LIFE: 100 x 10 6 STROKES MIN.

STANDARD MATERIALS OF CONSTRUCTION

HOUSING: SHAFT AND GUIDE RODS: RESISTANCE ELEMENT: ELECTRICAL CONTACTS: LEADWIRES / CABLE: STAINLESS STEEL
STAINLESS STEEL
CO-MOLDED CONDUCTIVE PLASTIC
MULTI-FINGER PRECIOUS METAL
#30 AWG TYPE ET (TEFLON)

AVAILABLE OPTIONS

CUSTOM RESISTANCE VALUES (500 Ω TO 30k Ω) AND TOLERANCES AS LOW AS ±5

SPECIAL LINEARITIES AS LOW AS 0.2 , ABSOLUTE (INDEXED) OR INDEPENDENT OVER SPECIFIED REGIONS.

SPECIAL ELECTRICAL STROKES (3.5 Inch MAX.)

SPECIAL CABLE OR CONNECTORS

SPECIAL SHAFT LENGTHS AND FEATURES SUCH AS FLATS, SLOTS, STEPS, YOKES, CLAMPS, AND ROD ENDS.

SPECIAL ENVIRONMENTAL CAPABILITES SUCH AS MOISTURE SEALS, HIGH SHOCK AND VIBRATION CAPABILITIES.

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E-MAIL: sales@specsensors.com

单击下面可查看定价,库存,交付和生命周期等信息

>>TE Connectivity(泰科)