

OPERATING TEMP. RANGE: OPERATING LIFE:

-65°C To +125°C 100 x 10 STROKES MIN.

STANDARD MATERIALS OF CONSTRUCTION

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

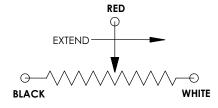
CONTACT:

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

ELECTRICAL CONTINUITY STROKE: INDEPENDENT LINEARITY: END VOLTAGE: VOLTAGE RESOLUTION: OUTPUT SMOOTHNESS: RESISTANCE TEMP. COEFFICIENT: POWER RATING @ 70°C: WIPER CONTACT CURRENT: DIELECTRIC STRENGTH: INSULATION RESISTANCE: 1kΩ TO 10kΩ ±10 0.50 In. NOMINAL OTHER STROKE LENGTH AVAILABLE AS NOTED OVER MECH. STROKE ±1.0 0.5 MAX. VIRTUALLY INFINITE 0.1 MAX. 500PPM/°C MAX. 0.75 WATT MAX. 10 MilliAmps MAX. 1000 VRMS 100 MegΩ MIN.

SCHEMATIC DIAGRAM

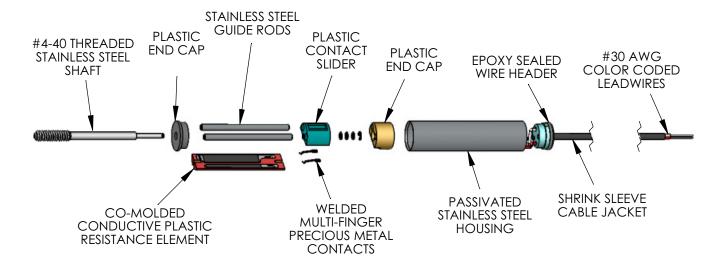




5903 Series

5/16 In. Dia. LINEAR MOTION PRECISION POTENTIOMETERS





STANDARD ELECTRICAL CHARACTERISTICS

RESISTANCES (±10): ACTIVE ELECTRICAL STROKE: ELECTRICAL CONTINUITY: INDEPENDENT LINEARITY: END VOLTAGE: VOLTAGE RESOLUTION: OUTPUT SMOOTHNESS: RESISTANCE TEMP. COEFFICIENT: POWER RATING @ 70°C: WIPER CONTACT CURRENT: DIELECTRIC STRENGTH: INSULATION RESISTANCE: 1KΩ, 2KΩ, and 5kΩ 0.5, 0.75, 1.0, 1.5, and 2.0 Inches THROUGHOUT MECH. STROKE ±1.0 0.5 MAX. VIRTUALLY INFINITE 0.1 MAX. 500PPM/°C MAX. 1.0 WATT MAX. PER STROKE INCH 10 MilliAmps MAX. 1000 VRMS 100 MegΩ MIN.

STANDARD MECHANICAL CHARACTERISTICS

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

STANDARD ENVIRONMENTAL CHARACTERISTICS

OPERATING TEMP. RANGE: ROTATIONAL OPERATING LIFE: -65°C To +125°C 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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