Compact String Pot

Precision Potentiometric Output





Handy Mounting Bracket

Mounts easily and quickly in several directions

Designed for Cable Misalignment

Long cable life, even when installation isn't perfect

Polycarbonate Enclosure

Withstands impacts and chemicals

"Free-Release" Tolerant

Greatly reduces damage due to mis-handling of cable

The SP1 String Pot is a compact, economical and durable device that utilizes a flexible cable, a spring-loaded spool, and a potentiometer to detect and measure linear position

The SP1 is designed for tight spaces, high-cycle applications and generously allows cable misalignment with 4 different measurement ranges and handy mounting brackets, the SP1 is a perfect solution for many applications, from light industrial to OEM

Specifications

General

Full stroke range options

Output signal

Accuracy

Repeatability

Resolution

Measuring cable

Enclosure material

Sensor

Weight

Electrical

Input resistance

Power rating, watts

Recommended maximum input voltage

Output signal change over full stroke range

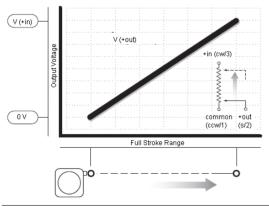
Environmental

Enclosure

Operating temperature

Vibration

Output Signal



: 0 - 4.75 and 0 - 12.5 inches

: Voltage divider (potentiometer)

: ±0.25 to ±1.00%

: ± 0.05% full stroke

: Essentially infinite

: 0.019-inch diameter nylon-coated stainless steel

: Polycarbonate

: Plastic-hybrid precision potentiometer

: 3 oz (w/o mounting bracket) maximum

: 10 K Ω , ±10%

: 2 at 70°F derated to 0 at 250°

: 30 V (ac/dc)

: 94% ±4% of input voltage

: IP 50

:0° to 160°F (-18° to 71°C)

:up to 10 G's to 2,000 Hz maximum

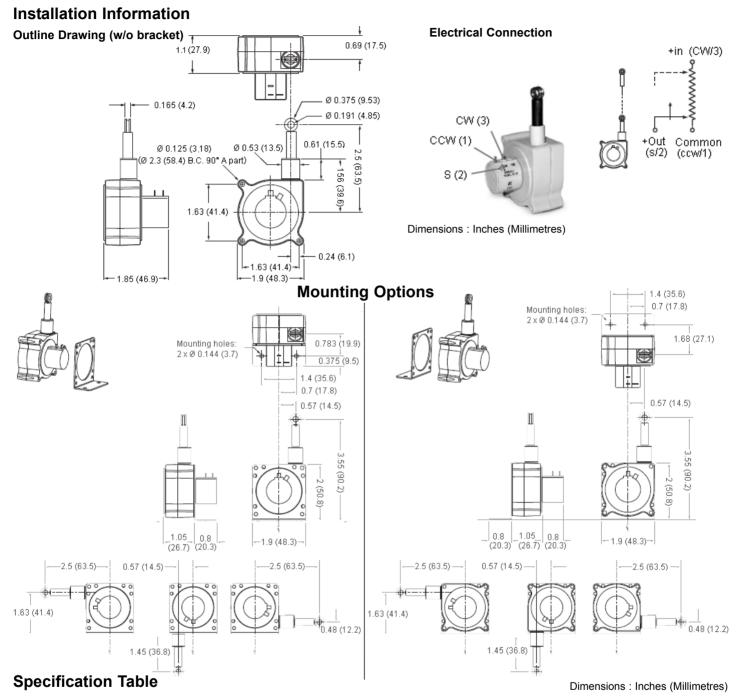
www.element14.com www.farnell.com www.newark.com



Compact String Pot



Precision Potentiometric Output



Description	Full Stroke Range	Accuracy (% of f.s.)	Potentiometer Cycle Life	Cable Tension (±25%)	Maximum Cable Acceleration	Part Number
Transducer, Cable Extension, 4.75in	4.75 Inches	1	2.5 M cycles	7 oz	30 G	SP1-4
Transducer, Cable Extension, 12.5in	12.5 Inches	0.25	500 K cycles	7 oz	30 G	SP1-12

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