## Compact String Pot Precision Potentiometric Output

# multicomp PRO



#### 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

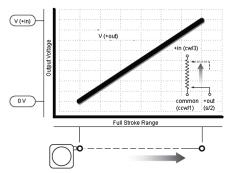
### **Specifications**

#### General

Full stroke range options Output signal Accuracy Repeatability Resolution Measuring cable Enclosure material Sensor Weight Electrical Input Resistance Power rating, watts Recommended Max. input voltage Output signal change over full stroke range **Environmental** Enclosure

Operating temperature Vibration

## **Output Signal**



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: 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 KΩ, ±10%
: 2 at 70°F derated to 0 at 250°C
: 30 V (AC/DC)
: 94% ±4% of input voltage
: IP 50
: 0º to 160ºE (-18º to 71ºC)

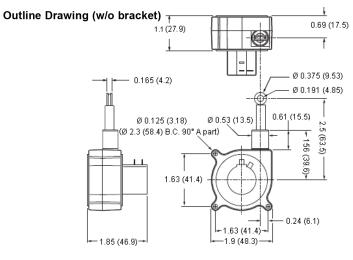
: 0° to 160°F (-18° to 71°C) :up to 10 G's to 2,000 Hz maximum

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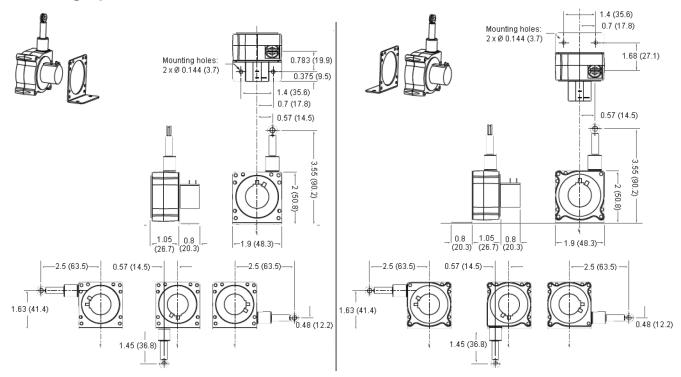
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### Installation Information



Electrical Connection +in (CW/3) CCW (1) S (2) +Out Common (S/2) (ccw/1)

## **Mounting Options**



Dimensions : Inches (Millimetres)

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### **Specification Table**

Part Number	Full Stroke Range	Accuracy (% of f.s.)	Potentiometer Cycle Life	Cable Tension (±25%)	Max. Cable Acceleration
SP1-4	4.75 Inches	1	2.5 M cycles	7 oz	30 G
SP1-12	12.5 Inches	0.25	500 K cycles	7 02	30 G

### Part Number Table

Description	Part Number
Transducer, Cable Extension, 4.75in	SP1-4
Transducer, Cable Extension, 12.5in	SP1-12

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