Compact String Pot

Precision Potentiometric Output

multicomp

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

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Full stroke range options	: 0 - 4.75 and 0 - 12.5 inches
Output signal	: Voltage divider (potentiometer)
Accuracy	: ±0.25 to ±1.00%
Repeatability	: ± 0.05% full stroke
Resolution	: Essentially infinite
Measuring cable	: 0.019-inch diameter nylon-coated stainless steel
Enclosure material	: Polycarbonate
Sensor	: Plastic-hybrid precision potentiometer
Weight	: 3 oz (w/o mounting bracket) maximum

Electrical

Input resistance	: 10 KΩ, ±10%
Power rating, watts	: 2 at 70ºF derated to 0 at 250º
Recommended maximum input voltage	: 30 V (ac/dc)
Output signal change over full stroke range	: 94% ±4% of input voltage

Environmental

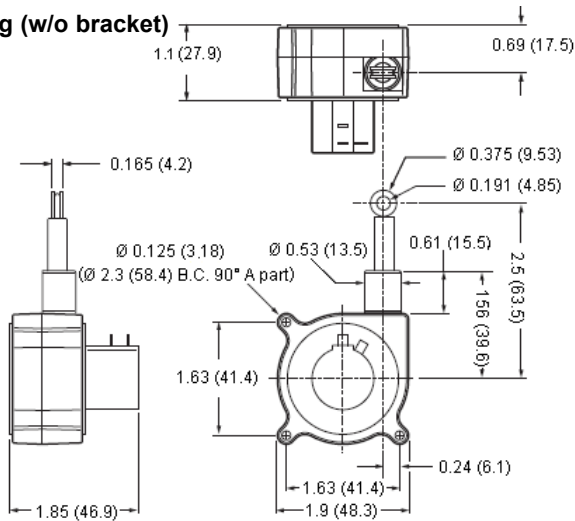|	
Enclosure	: IP 50
Operating temperature	:0º to 160ºF (-18º to 71ºC)
Vibration	:up to 10 G's to 2,000 Hz maximum

Output Signal

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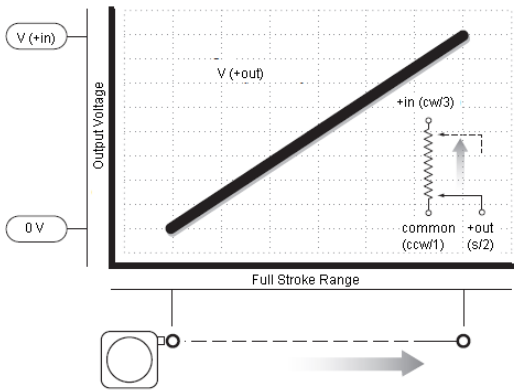
Compact String Pot

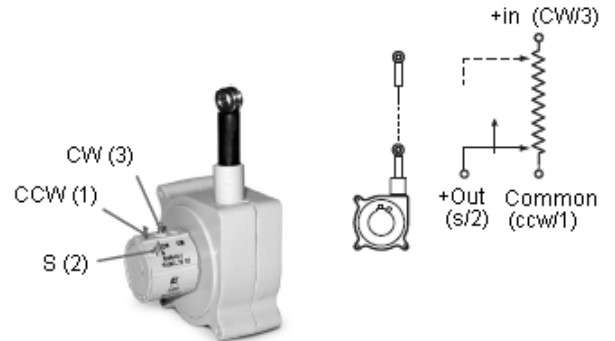## Precision Potentiometric Output

Installation Information
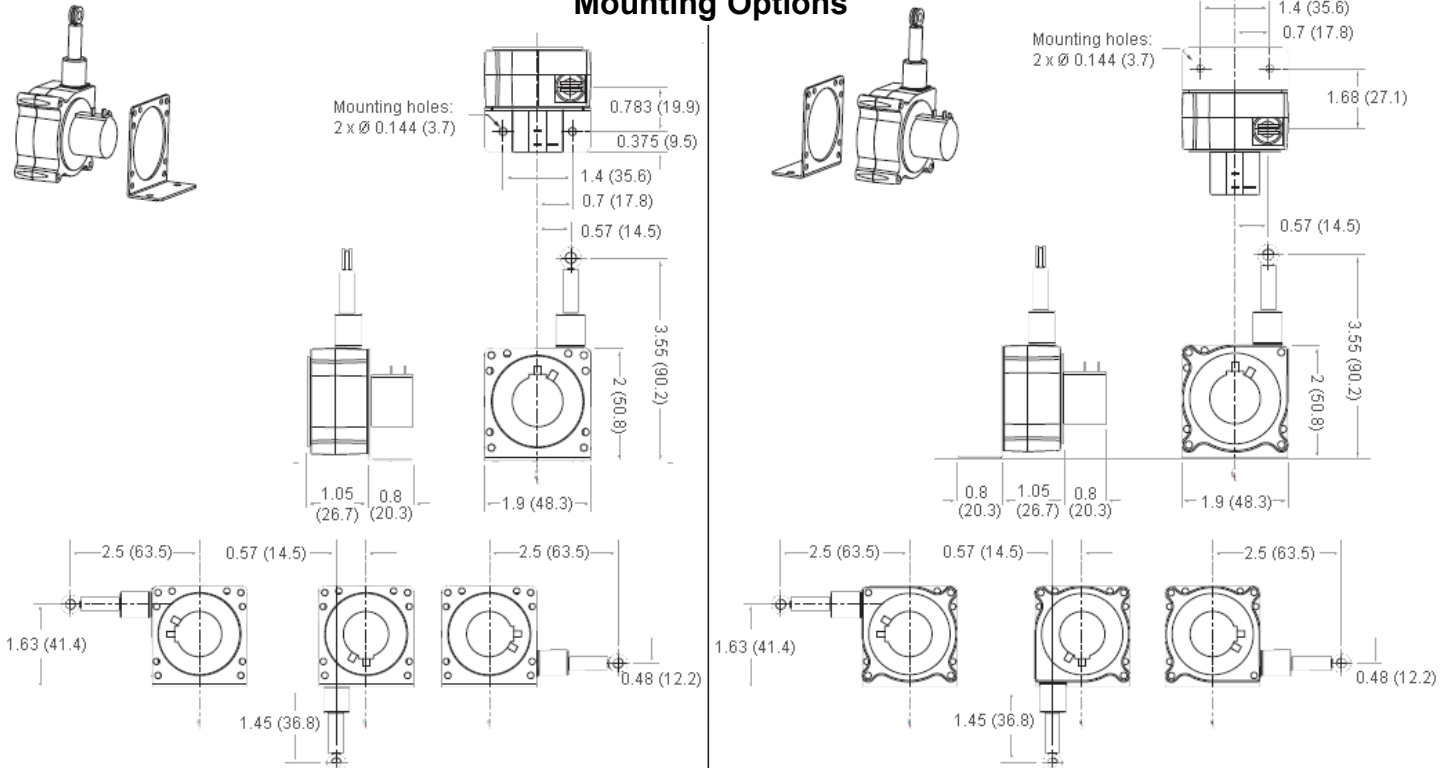
Outline Drawing (w/o bracket)

Electrical Connection

Dimensions : Inches (Millimetres)

Mounting Options

Dimensions : Inches (Millimetres)

Specification Table

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

16/12/11 V1.1