

Ranges: Up to 50 inches
Precision Potentiometric Output
Low Cost • Fast Delivery

SP1

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

CE **"Free-Release" Tolerant**
 Greatly reduces damage due to mis-handling of cable



Specification Summary:

GENERAL

Full Stroke Range Options 0-4.75, 0-12.5, 0-25, 0-50 inches
 Output Signal voltage divider (potentiometer)
 Accuracy ± 0.25 to $\pm 1.00\%$ *see ordering information*
 Repeatability $\pm 0.05\%$ full stroke
 Resolution essentially infinite
 Measuring Cable 0.019-in. dia. nylon-coated stainless steel
 Enclosure Material polycarbonate
 Sensor plastic-hybrid precision potentiometer
 Weight 3 oz. (w/o mounting bracket) max.

ELECTRICAL

Input Resistance 10K ohms, $\pm 10\%$
 Power Rating, Watts 2.0 at 70°F derated to 0 at 250°
 Recommended Maximum Input Voltage 30 V (AC/DC)
 Output Signal Change Over Full Stroke Range 94% $\pm 4\%$ of input voltage

ENVIRONMENTAL

Enclosure IP 50
 Operating Temperature 0° to 160°F (-18° to 71°C)
 Vibration up to 10 G's to 2000 Hz maximum

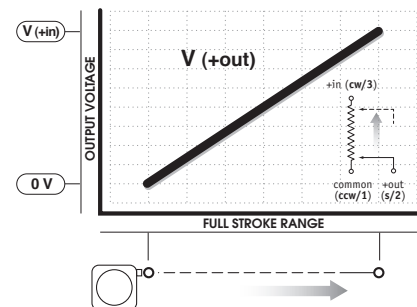
Ordering Information:

Item Number:	SP1-4	SP1-12	SP1-25	SP1-50
full stroke range:	4.75 in.	12.5 in.	25 in.	50 in.
accuracy (% of f.s.):	1.00%	0.25%	0.25%	0.25%
potentiometer cycle life:	2.5M cycles	500K cycles	500K cycles	250K cycles
cable tension ($\pm 25\%$):	7 oz.	7 oz.	7 oz.	7 oz.
max. cable acceleration:	15 G	15 G	15 G	15 G

The Celesco 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.

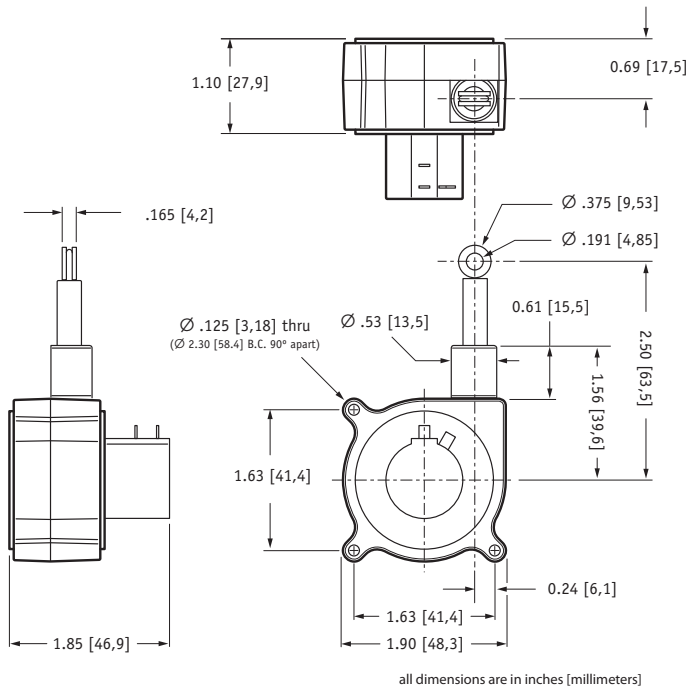
Output Signal



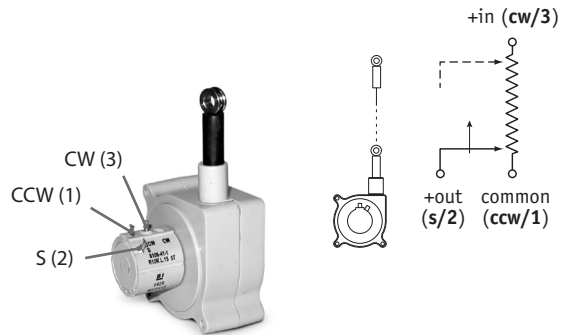
SP1 • Compact String Pot • Precision Potentiometric Output

Installation Information:

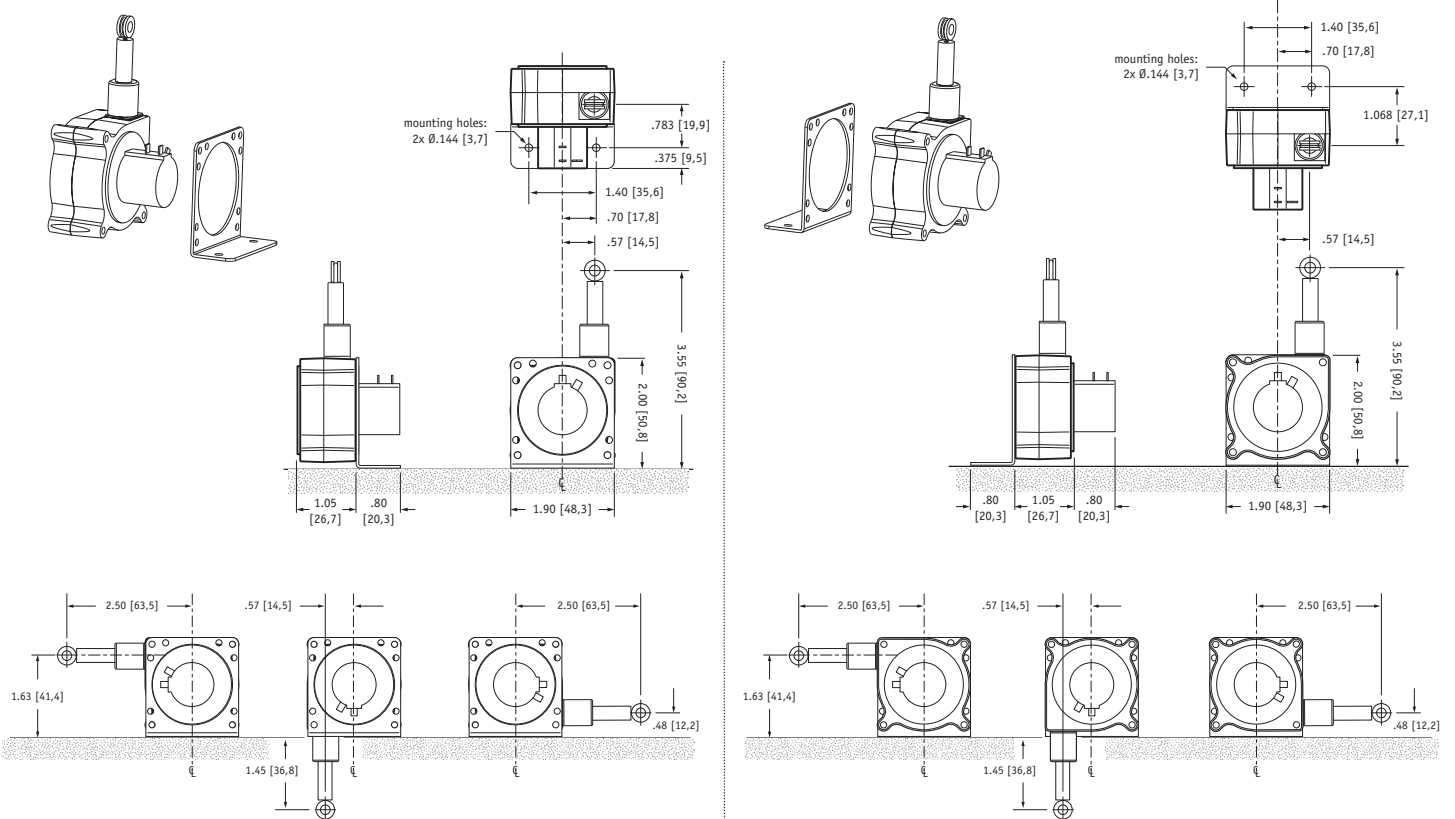
Outline Drawing (w/o bracket):



Electrical Connection:



Mounting Options:



ООО "РусАвтоматизация"

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