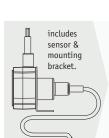
Compact String Pot • Voltage Divider Output

Linear Position to 50 inches (1270 mm) Low-Cost, Long Life • Rugged Polycarbonate Enclosure 40-in. Electrical Cable • Free-Release Tolerant In Stock for Quick Delivery!



Part No.	full stroke range	accuracy (% of f.s.)	cycle life
SP2-4	4.75 in (120 mm)	1.00%	2.5M cycles
SP2-12	12.5 in (317 mm)	0.25%	500K cycles
SP2-25	25 in (635 mm)	0.25%	500K cycles
SP2-50	50 in (1270 mm)	0.25%	250K cycles

COMPLETE SPECIFICATIONS

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 part no. above)
Repeatability	± 0.05% full stroke
Resolution	essentially infinite
Measuring Cable	0.019-in. dia. nylon-coated stainless steel
Measuring Cable Tension	7 oz. (1,9 N) ±25%
Maximum Cable Acceleration	15 g
Enclosure Material	polycarbonate
Sensor	plastic-hybrid precision potentiometer
Weight	5 oz. (w/o mounting bracket) max.

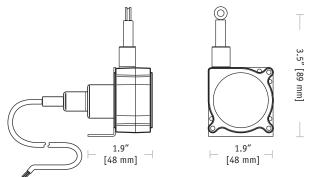
ELECTRICAL

Input Resistance		10K ohms, ±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% ±4% of input voltage		
Electrical Connection	40-inch long, 24 gua	age shielded electical cable

ENVIRONMENTAL

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

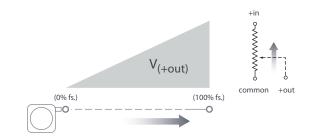




The SP2 String Pot from Celesco is a compact, economical and water resistant device that utilizes a flexible cable, a spring-loaded spool and a potentiometer to detect and measure linear position.

The SP2 is identical to the SP1 except for an added 40-inch electrical cable with a watertight rubber strain relief. The SP2 has been compactly designed for tight spaces and high cycle applications and generously allows for measuring cable misalignment. With 4 different ranges and a handy mounting bracket, the SP2 is a perfect solution for many applications from light industrial to OEM.

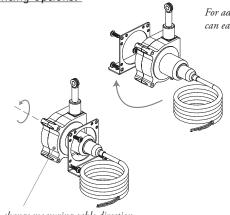
Output Signal:



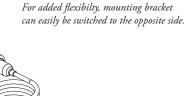




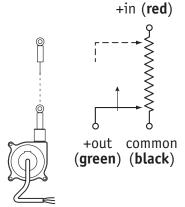
Mounting Options:



To change measuring cable direction simply remove the 3 bracket attaching screws and rotate sensor body to desired direction.

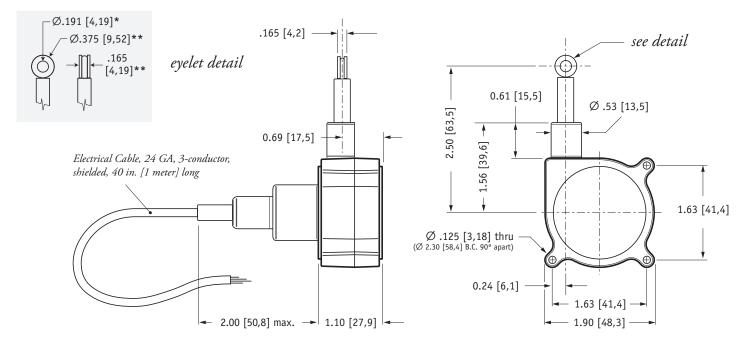


Electrical Connection:



— 2.50 [63,5] → 2.50 [63,5] ---.57 [14,5] -1.63 [41,4] .48 [12,2] 1.45 [36,8]

Outline Drawing (w/o bracket):

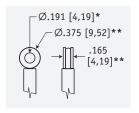


DIMENSIONS ARE IN INCHES [MM] tolerances are 0.04 IN. [1,0 MM] unless otherwise noted.

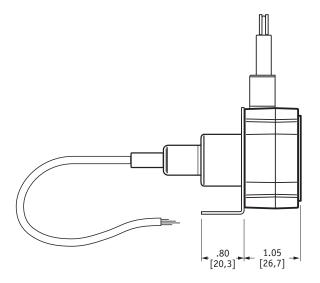
^{*} tolerance = +.005 -.001 [+0,1 -0,0]

^{**} tolerance = +.005 -.005 [+0,1 -0,1]

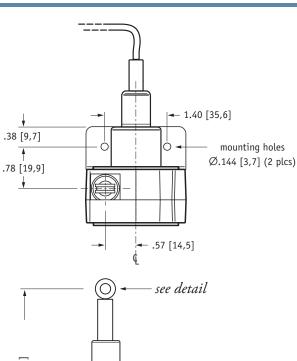
Outline Drawing (with bracket):

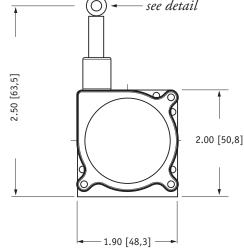


eyelet detail



DIMENSIONS ARE IN INCHES [MM] tolerances are 0.04 IN. [1,0 MM] unless otherwise noted.





- * tolerance = +.005 -.001 [+0,1 -0,0]
- ** tolerance = +.005 -.005 [+0,1 -0,1]