



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



SP2 Compact String Pot • Incremental

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!

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
 30 V (AC/DC)

 Input Voltage
 94% ±4% of input voltage

 Full Stroke Range
 94% ±4% of input voltage

 Electrical Connection
 40-inch long, 24 gauge shielded electrical cable

Environmental

Enclosure
Operating Temperature
Vibration

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

	Part No.	full stroke range	accuracy (% of f.s.)	cycle life
includes sensor & mounting bracket.	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

Tel: 020-34387714





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]

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