

This compact stringpot with "voltage divider" output, provides ease-of-use and flexibility for measurement ranges up to 50 inches. Made of rugged polycarbonate, the SP1 fits in small spaces, doesn't need perfect alignment and ships with a stainless steel mounting bracket to let the user easily orient this sensor in just about any direction imaginable.

The SP1 is available with a connector, mating plug and sensor cover to protect against IP67 (wet) environments and a lower cost, "open" sensor version priced for both the budget conscious single piece user and the OEM alike.

Ordering Information

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includes	sensor & mount	ing bracket.			
Part Number	full stroke range	accuracy	max. acceleration	measuring cable tension (± 25%)	cycle life
SP1-4	4.75 in (120 mm)	1.00%	15 g	7oz. (1,9 N)	2.5M
SP1-12	12.5 in (317 mm)	.25%	15 g	7oz. (1,9 N)	500K
SP1-25	25 in (635 mm)	.25%	15 g	7oz. (1,9 N)	500K
SP1-50	50 in (1270 mm)	.25%	15 g	7oz. (1,9 N)	250K



9036810-0040 for all SP1-xx-3 versions, an optional 13-ft. cordset with 4-pin M12 connector

SP1 Compact String Pot • Voltage Divider

Linear Position to 50 inches (1270 mm) Rugged Polycarbonate Enclosure • IP67 Optional Mounting Bracket & Optional Sensor Cover w/Connector IN STOCK for Quick Delivery!

Complete Specifications

Available Stroke Ranges Output Signal Accuracy Repeatability Resolution Measuring Cable Measuring Cable Tension Maximum Cable Acceleration Enclosure Material Sensor Weight, max. (includes bracket)

Electrical

Input Resistance Power Rating, Watts Recommended Maximum Input Voltage Output Signal Change Over Full Stroke Range Electrical Connection, SP1-xx-3

Environmental

Enclosure

Operating Temperature, SP1-xx Operating Temperature, SP1-xx-3 Vibration



0-4.75, 0-12.5, 0-25, 0-50 inches voltage divider (potentiometer) ±0.25 to ±1.00% (see ordering info) ± 0.05% full stroke essentially infinite 0.019-in. dia. nylon-coated stainless steel see ordering information see ordering information Polycarbonate plastic-hybrid precision potentiometer .4 lbs (.19 kg)

10K ohms, ±10% 2.0 at 70°F derated to 0 at 250° 30 V (AC/DC)

94% ±4% of input voltage

solder terminals 4-pin, M12 connector

IP 50 (SP1-xx), IP67 (SP1-xx-3) 0° to 160°F (-18° to 70°C) -40° to 160°F (-40° to 70°C) up to 10 g to 2000 Hz maximum





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Electrical Connection



field installable connector (included)



cordset, part no. 9036810-0040 (optional)



Output Signal

Terminal/Pin Location (SP1-xx)





Mounting Options for SP1-xx:



For added flexibilty, mounting bracket

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





SP1-xx w/o Mounting Bracket



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

SP1-xx w/ Mounting Bracket



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





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SP1-xx-3 w/o Mounting Bracket







eyelet detail $\bigcirc = 100 \ -500$

mating plug (included)



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

2.32 [58,9]

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1.97 [50,1]

SP1-xx-3 w/ Mounting Bracket



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