

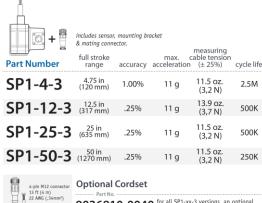
This compact stringpot with "voltage divider" output, provides ease-of-use and flexibility for measurement ranges up to 50 inches. Made of rugged polycarbonate, the SP1 fits in small spaces, doesn't need perfect alignment and ships with a stainless steel mounting bracket to let the user easily orient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

H

includes sensor & mounting bracket.					
Part Number	full stroke range	accuracy	max. acceleration	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)

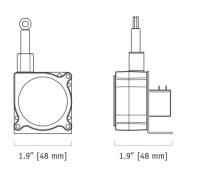
### Electrical

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



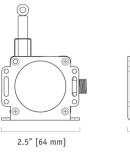
0-4.75, 0-12.5, 0-25, 0-50 inches voltage divider (potentiometer) ±0.25 to ±1.00% (see ordering info) ± 0.05% full stroke essentially infinite 0.019-in. dia. nylon-coated stainless steel see ordering information see ordering information Polycarbonate plastic-hybrid precision potentiometer .4 lbs (.19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

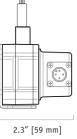
10K ohms, ±10% 2.0 at 70°F derated to 0 at 250° 30 V (AC/DC)

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



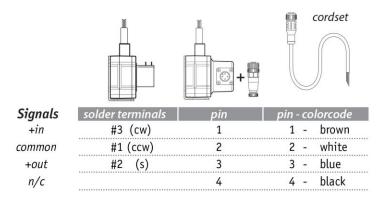


GuangZhou TaiDaXin Measurement And Control Technology Co.,Ltd.

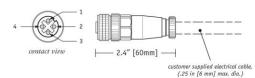
Tel:+086-20-81978835

http://www.tdxck.com

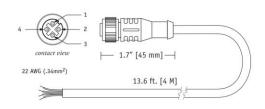
# **Electrical Connection**



field installable connector (included)



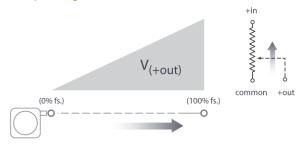
cordset, part no. 9036810-0040 (optional)



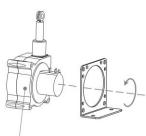
#### **Output Signal**

Terminal/Pin Location (SP1-xx)



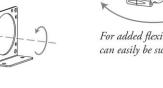


# Mounting Options for SP1-xx:

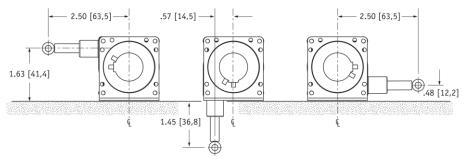


For added flexibility, mounting bracket

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

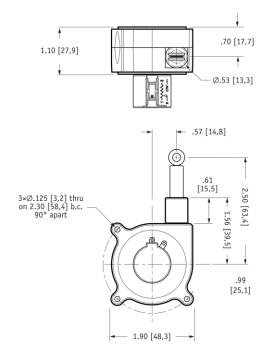


can easily be switched to the opposite side.



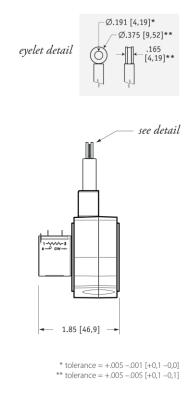
Tel:+086-20-81978835

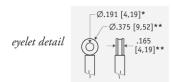
# SP1-xx w/o Mounting Bracket

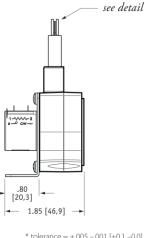


DIMENSIONS ARE IN INCHES [MM] tolerances are 0.04 IN. [1,0 MM] unless otherwise noted.

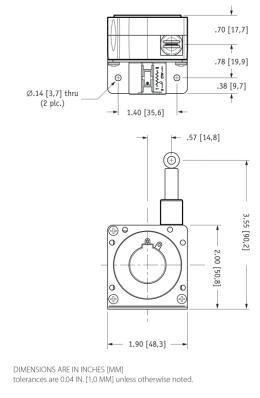
### SP1-xx w/ Mounting Bracket

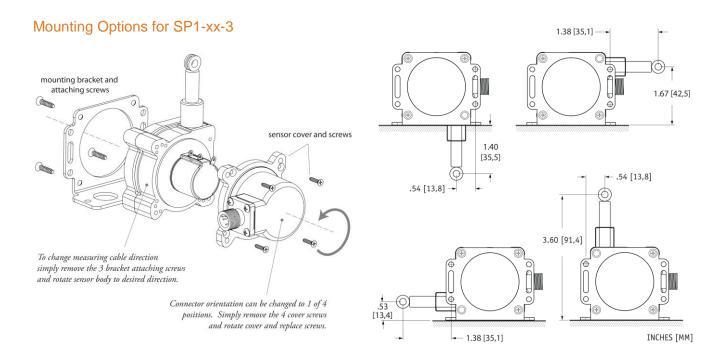




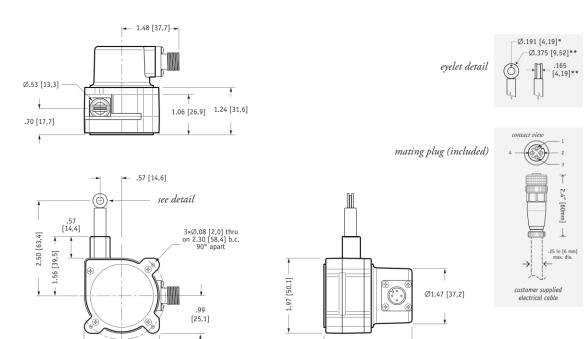


\* tolerance = +.005 -.001 [+0,1 -0,0] \*\* tolerance = +.005 -.005 [+0,1 -0,1]





# SP1-xx-3 w/o Mounting Bracket

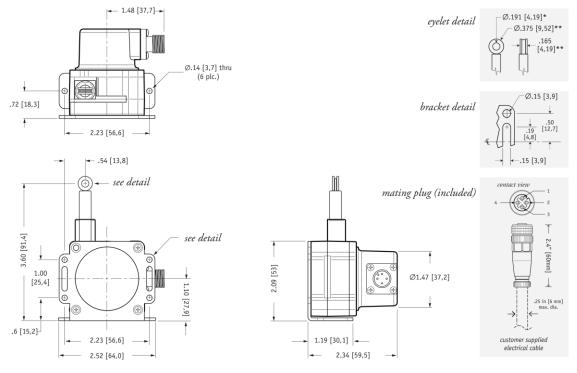


2.32 [58,9]

1.97 [50,1] -----

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

# SP1-xx-3 w/ Mounting 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]