



Sensors > Position Sensors > Potentiometer Sensors > Cable Actuated Position Sensors > IP67 Incremental Encoder



Cable Actuated Position Sensor Product Type: **SP Series, String Pots**

Full Stroke Ranges: 101.6 – 1270 mm [ 4 – 50 in ]

Output Signal: **Voltage Divider (Potentiometric)**

Cable Actuated Position Sensor Accuracy: **.25 % of FS**

Repeatability: **.02 % of FS**

[All IP67 Incremental Encoder \(8\)](#)

## Features

### Product Type Features

|   |                        |
|---|------------------------|
| Cable Actuated Position Sensor Product Type | SP Series, String Pots |
|---|------------------------|

### Signal Characteristics

|               |                                  |
|---------------|----------------------------------|
| Output Signal | Voltage Divider (Potentiometric) |
|---------------|----------------------------------|

### Body Features

|   |  |
|---|--|
| Cable Actuated Position Sensor Housing Material | Polycarbonate + Stainless Mounting Bracket |
|---|--|

### Usage Conditions

|                             |                           |
|-----------------------------|---------------------------|
| Operating Temperature Range | -40 – 70 °C[-40 – 160 °F] |
|-----------------------------|---------------------------|

### Operation/Application

|            |                      |
|------------|----------------------|
| Resolution | Continuous Analog mm |
|------------|----------------------|

### Industry Standards

|                         |      |
|-------------------------|------|
| IP Rating               | IP67 |
| Hazardous Area Approval | No   |

### Other

|   |                            |
|---|----------------------------|
| Full Stroke Ranges                      | 101.6 – 1270 mm[4 – 50 in] |
| Cable Actuated Position Sensor Accuracy | .25 % of FS                |



|                 |                              |
|-----------------|------------------------------|
| Repeatability   | .02 % of FS                  |
| Encoder Drive   | No                           |
| Measuring Cable | Nylon-Coated Stainless Steel |

### Product Compliance

[For compliance documentation, visit the product page on TE.com>](#)

|   |  |
|---|--|
| EU RoHS Directive 2011/65/EU                  | Compliant with Exemptions  |
| EU ELV Directive 2000/53/EC                   | Compliant with Exemptions  |
| China RoHS 2 Directive MIIT Order No 32, 2016 | Restricted Materials Above Threshold   |
| EU REACH Regulation (EC) No. 1907/2006        | <p>Current ECHA Candidate List: JUNE 2023 (235)</p> <p>Candidate List Declared Against: JAN 2023 (233)</p> <p>SVHC &gt; Threshold:<br/>Pb (3.9% in Component)</p> <p><b>Article Safe Usage Statements:</b><br/>Do not eat, drink or smoke when using this product. Wash thoroughly after handling. Recycle if possible and dispose of the article by following all applicable governmental regulations relevant to your geographic location.</p> |
| Halogen Content                               | Not Low Halogen - contains Br or Cl > 900 ppm.   |
| Solder Process Capability                     | Not reviewed for solder process capability   |

#### Product Compliance Disclaimer

This information is provided based on reasonable inquiry of our suppliers and represents our current actual knowledge based on the information they provided. This information is subject to change. The part numbers that TE has identified as EU RoHS compliant have a maximum concentration of 0.1% by weight in homogenous materials for lead, hexavalent chromium, mercury, PBB, PBDE, DBP, BBP, DEHP, DIBP, and 0.01% for cadmium, or qualify for an exemption to these limits as defined in the Annexes of Directive 2011/65/EU (RoHS2). Finished electrical and electronic equipment products will be CE marked as required by Directive 2011/65/EU. Components may not be CE marked. Additionally, the part numbers that TE has identified as EU ELV compliant have a maximum concentration of 0.1% by weight in homogenous materials for lead, hexavalent chromium, and mercury, and 0.01% for cadmium, or qualify for an exemption to these limits as defined in the Annexes of Directive 2000/53/EC (ELV). Regarding the REACH Regulation, the information TE provides on SVHC in articles for this part number is based on the latest European Chemicals Agency (ECHA) 'Guidance on requirements for substances in articles' posted at this URL: <https://echa.europa.eu/guidance-documents/guidance-on-reach>

### Compatible Parts



## Also in the Series | MEAS SP



Cable Actuated Position Sensors(22)

## Customers Also Bought



TE Part #SP1-50  
STRING POT 50.0 INCH RANGE



TE Part #1-747943-6  
KIT,RCPT,9P,HDE,SHLD ENCLSR



TE Part #1-747944-5  
09 SHLDG ENCL PLUG,LEAD FREE



TE Part #1-640456-2  
12P MTA100 HDR ASSY F/L SQ STR



TE Part #5103309-3  
A/L LOW PRO HDR 16P VERT BLACK



TE Part #1-382811-6  
SHUNT,ECON,PHBR 15AU,BLACK L/P



TE Part #2-1393030-1  
SSRT-240D10 = PANEL MOUNT,10A,  
240VAC



TE Part #974867-000  
562A011-25/225-0



TE Part #643030-2  
05P UMNL STR/REL V2 NATL

## Documents

### CAD Files

3D PDF

3D

Customer View Model

[ENG\\_CVM\\_CVM\\_SP1-50-3\\_1.2d\\_dxf.zip](#)

English

Customer View Model



[ENG\\_CVM\\_CVM\\_SP1-50-3\\_1.3d\\_igs.zip](#)

English

**Customer View Model**

[ENG\\_CVM\\_CVM\\_SP1-50-3\\_1.3d\\_stp.zip](#)

English

By downloading the CAD file I accept and agree to the [Terms and Conditions](#) of use.

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## Datasheets & Catalog Pages

**SP1**

English