



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
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### Signal Characteristics

Output Signal	Voltage Divider (Potentiometric)
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### Body Features

Cable Actuated Position Sensor Housing Material	Polycarbonate + Stainless Mounting Bracket
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### Usage Conditions

Operating Temperature Range	-40 – 70 °C[-40 – 160 °F]
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### Operation/Application

Resolution	Continuous Analog mm
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### 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: Pb (3.9% in Component)</p> <p><b>Article Safe Usage Statements:</b> 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 #1-747943-6  
KIT,RCPT,9P,HDE,SHLD ENCLSRE



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 #SP1-50  
STRING POT 50.0 INCH RANGE



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

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## Datasheets & Catalog Pages

**SP1**

English