



Sensors > Position Sensors > Potentiometer Sensors > Cable Actuated Position Sensors > SP SERIES, STRING POTS



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

Full Stroke Ranges: 1270 mm [ 50 in ]

Output Signal: 0 – 10 VDC, 4 – 20 mA

Cable Actuated Position Sensor Accuracy: .25 % of FS

Repeatability: .02 % of FS

[All SP SERIES, STRING POTS \(4\)](#)

## Features

### Product Type Features

Cable Actuated Position Sensor Product Type	SP Series, String Pots
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### Signal Characteristics

Output Signal	0 – 10 VDC, 4 – 20 mA
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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	-18 – 71 °C[0 – 160 °F]
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### Operation/Application

Resolution	Continuous Analog mm
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### Industry Standards

IP Rating	IP50
Hazardous Area Approval	No

### Other

Full Stroke Ranges	1270 mm[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	Not Yet Reviewed
China RoHS 2 Directive MIIT Order No 32, 2016	Restricted Materials Above Threshold
EU REACH Regulation (EC) No. 1907/2006	Current ECHA Candidate List: JAN 2023 (233) Not Yet Reviewed
Halogen Content	Not Yet Reviewed for halogen content
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 #SP3-12  
STRING POT 12.5 INCH RANGE

TE Part #SR1V-175  
STRING POT, 175 INCH RANGE

TE Part #20023433-00  
MT2A-30L-14-10K-C2A: CTO-11500000-37

TE Part #10215547-00  
PT420-0005-H11-1130

TE Part #20023295-00  
PT420-0075-H13-1130: CTO-11500000-29

TE Part #04-1006-0299  
PT5MA-125-S47-FR-420E-M6M

TE Part #04-0979-0335  
PT9420-0200-232-1110-8249A

TE Part #04-0979-5099  
PT9420-0250-223-1510

TE Part #04-1298-0220  
RT8510-0020-132-1110

TE Part #04-0989-5032  
RT9420-0R50-221-1130

### Documents

[CAD Files](#)

[3D PDF](#)

[3D](#)

[Customer View Model](#)

[ENG\\_CVM\\_CVM\\_SP3-50\\_1.2d\\_dxf.zip](#)

[English](#)

[Customer View Model](#)

[ENG\\_CVM\\_CVM\\_SP3-50\\_1.3d\\_igs.zip](#)



English

Customer View Model

[ENG\\_CVM\\_CVM\\_SP3-50\\_1.3d\\_stp.zip](#)

English

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**Datasheets & Catalog Pages**

**SP3**

English