



Sensors > Position Sensors > Potentiometer Sensors > Cable Actuated Position Sensors



Position Sensor Product Type: SG Series String Pots

Full Stroke Range: 3048 mm [ 120 in ]

Output Signal Type: Voltage Divider (Potentiometric)

Accuracy: ±.35 % of FS

Repeatability: .02 % of FS

Features

Product Type Features

|                              |                       |
|------------------------------|-----------------------|
| Position Sensor Product Type | SG Series String Pots |
|------------------------------|-----------------------|

Body Features

|               |  |
|---------------|--|
| Case Material | Polycarbonate + Stainless Mounting Bracket |
|---------------|--|

Dimensions

|                   |                 |
|-------------------|-----------------|
| Full Stroke Range | 3048 mm[120 in] |
|-------------------|-----------------|

Usage Conditions

|                             |                           |
|-----------------------------|---------------------------|
| Accuracy                    | ±.35 % of FS              |
| Operating Temperature Range | -40 – 71 °C[-40 – 160 °F] |

Operation/Application

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

Industry Standards

|                         |      |
|-------------------------|------|
| IP Rating               | IP50 |
| Hazardous Area Approval | No   |

Other

|                 |                              |
|-----------------|------------------------------|
| 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  |
| China RoHS 2 Directive MIIT Order No 32, 2016 | Restricted Materials Above Threshold   |
| EU REACH Regulation (EC) No. 1907/2006        | Current ECHA Candidate List: JUNE 2024 (241)<br>Candidate List Declared Against: JUL 2021 (219)<br>SVHC > Threshold:<br>Pb (3% in Component)<br><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. |
| 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



TE Part # SG1-80-3  
STRING POT, 80 INCH RANGE



TE Part # SG1-120-2  
STRING POT, 120 INCH RANGE

Also in the Series | MEAS SG



Customers Also Bought



Documents

CAD Files

3D PDF

3D

Customer View Model

ENG\_CVM\_CVM\_SG1-120-3\_1.2d\_dxf.zip

English

Customer View Model

ENG\_CVM\_CVM\_SG1-120-3\_1.3d\_igs.zip



English

Customer View Model

[ENG\\_CVM\\_CVM\\_SG1-120-3\\_1.3d\\_stp.zip](#)

English

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

Datasheets & Catalog Pages

[SG1](#)

English