



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



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

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

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

Accuracy: **±.25 % of FS**

Repeatability: **.02 % of FS**

[All IP67 Incremental Encoder \(4\)](#)

Features

Product Type Features

Position Sensor Product Type	SP Series, String Pots
------------------------------	------------------------

Body Features

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

Dimensions

Full Stroke Range	101.6 – 1270 mm[4 – 50 in]
-------------------	----------------------------

Usage Conditions

Accuracy	±.25 % of FS
Operating Temperature Range	-40 – 158 °C[-40 – 158 °F]

Operation/Application

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

Industry Standards

IP Rating	IP67
-----------	------

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 with Exemptions
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 2025 (247) Candidate List Declared Against: JAN 2025 (247) SVHC > Threshold: Pb (3.5% in Component Part) Article Safe Usage Statements: 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 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(23)

Customers Also Bought



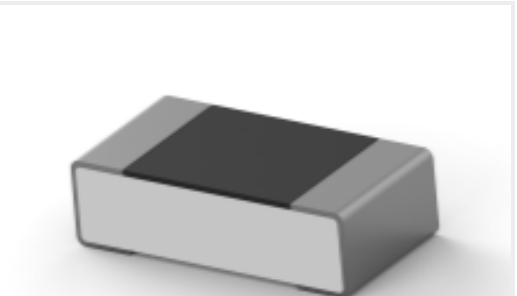
TE Part #680328-000
D-609-08



TE Part #DT12S-BT-BK
BOOT, 12P, PLG, ST, BLK



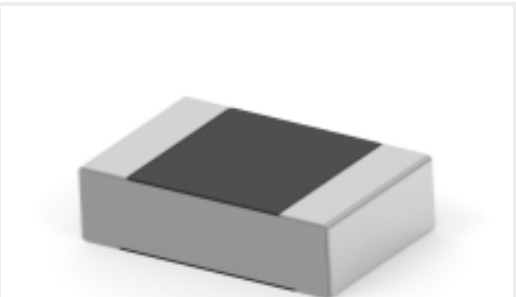
TE Part #HD34-24-91PE-059
REC,9P,AL,E,CBLCLMPBT,DRAIN,8/12 /16,P,MC



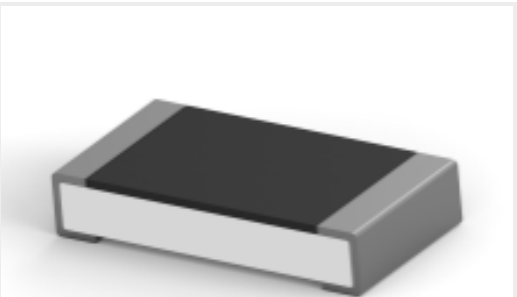
TE Part #6-2176369-4
RQ 0603 182R 0.1% 10PPM 5K RL



TE Part #680326-000
D-609-06



TE Part #1-2176238-0
CPF A 0805 30R 0.1% 25PPM 5K RL



TE Part #8-2176388-8
RQ 1206 80R6 0.1% 10PPM 5K RL



TE Part #87224-3
03 MODII HDR SRST UNSHRD .100



TE Part #DT06-12SA-E008
PLG, 12P, GRY, N, XCAP, A



TE Part #680330-000
D-609-10

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.

Datasheets & Catalog Pages

[SP1](#)

English