

VOLTAGE OUT PT1 STRING POT



MEAS | MEAS PT1

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The PT1DC series 0-5V / 0-10V PT1 string pot can operate from an unregulated 14.5 to 40 VDC power supply, has a maximum measurement range up to 50 inches, and has four output signal options.



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

The PT1DC series 0-5V / 0-10V PT1 string pot can operate from an unregulated 14.5 to 40 VDC power supply while providing an output signal that is proportional to the linear movement of its measuring cable.



Position Sensor Product Type: Industrial String Potentiometer

Full Stroke Range: 254 mm

Output Signal Type: 0 - 10 VDC

Accuracy: $\pm 1.8\%$ of FS

Repeatability: .05 % of FS

The PT1DC series 0-5V / 0-10V PT1 string pot has a maximum measurement range up to 50" and has 4 output signal options to choose from: 0...10, 0...5, -10...+10 and -5...+5 Vdc.

Just like the rest of the PT1 series, the PT1DC also offers several options including forward and reverse output signals, zero and span adjustments and alternate measuring cable exits.

Benefits

- Absolute Linear Position to 50 inches (1270 mm)
- Aluminum and Polycarbonate Enclosure
- Compact Design
- IP65
- NEMA 4 Protection

Features

Reference Number

| | |
|--------------------|--------------|
| TE Internal Number | CAT-CAPS0009 |
|--------------------|--------------|

Product Type Features

| | |
|------------------------------|--|
| Position Sensor Product Type | Industrial String Potentiometer, PT1DC - Industrial Series |
|------------------------------|--|

Body Features

| | |
|---------------|--------------------------|
| Case Material | Aluminum + Polycarbonate |
|---------------|--------------------------|

Dimensions

| | |
|------------------------|----------------|
| Full Stroke Range (mm) | 127, 254, 1270 |
|------------------------|----------------|

| | |
|------------------------|-----------|
| Full Stroke Range (in) | 5, 10, 50 |
|------------------------|-----------|

Usage Conditions

| | |
|--------------------|------------------|
| Accuracy (% of FS) | ±.15, ±.18, ±.28 |
|--------------------|------------------|

| | |
|----------------------------------|----------|
| Operating Temperature Range (°C) | -18 - 93 |
|----------------------------------|----------|

| | |
|----------------------------------|---------|
| Operating Temperature Range (°F) | 0 - 200 |
|----------------------------------|---------|

Operation/Application

| | |
|--------------------|------------|
| Output Signal Type | 0 - 10 VDC |
|--------------------|------------|

Industry Standards

| | |
|-----------|------|
| IP Rating | IP65 |
|-----------|------|

Other

| | |
|---------------|----|
| Encoder Drive | No |
|---------------|----|

| | |
|-------------------------|----------|
| Repeatability (% of FS) | .02, .05 |
|-------------------------|----------|

| | |
|-----------------|--|
| Measuring Cable | .019 Inch Dia Nylon-Coated Stainless Steel |
|-----------------|--|

SEE PRODUCTS ON NEXT PAGE

Products (1 of 1)



PT1DC-10-UP-Z10-C25-SG

PT1DC-50-DN-Z10-M6-SG

PT1DC-50-FR-Z10-M6

POSITION SENSOR, PT1DC SERIES

| | | | | |
|------------------------------|-----------------------------------|-----------------------------------|-----------------------------------|-----------------------------------|
| TE Part # | 04-1103-1532 | 04-1103-1568 | 04-1103-0048 | 11025071-00 |
| Position Sensor Product Type | Industrial String Potentiometer | Industrial String Potentiometer | Industrial String Potentiometer | PT1DC - Industrial Series |
| Full Stroke Range | 254 mm | 1270 mm | 1270 mm | 127 mm |
| Accuracy | ±.18 % of FS | ±.15 % of FS | ±.15 % of FS | ±.28 % of FS |
| Repeatability | .05 % of FS | .05 % of FS | .05 % of FS | .02 % of FS |
| EU RoHS Directive 2011/65/EU | EU RoHS Compliant with Exemptions |
| EU ELV Directive 2000/53/EC | Out of Scope for EU ELV | Not Yet Reviewed for EU ELV | Out of Scope for EU ELV | Out of Scope for EU ELV |
| Product Families | MEAS | MEAS | MEAS | MEAS |
| Series | MEAS PT1 | MEAS PT1 | MEAS PT1 | MEAS PT1 |

*EU RoHS Directive 2011/65/EU

These products comply with the substance restrictions of the Restriction on Hazardous Substances Directive 2011/65/EU (RoHS2). The RoHS2 Directive requires that certain electrical and electronic equipment products do not contain mercury, cadmium, hexavalent chromium, PBB, PBDE, lead, DEHP, BBP, DBP and DIBP above defined thresholds. Products indicated as 'Compliant' do not contain any of these substances above the prohibition thresholds. Finished electrical and electronic equipment products will be CE marked as required by the Directive. Components may not be CE marked.

**EU ELV Directive 2000/53/EC

These products comply with the substance restrictions of the End of Life Vehicles Directive 2000/53/EC (ELV). The ELV Directive requires that materials and components of vehicles do not contain mercury, cadmium, hexavalent chromium, and lead above defined thresholds. Products indicated as 'Compliant' do not contain any of these substances above the prohibition thresholds.

Related Materials

[Data Sheet](#)

[PT1DC](#)

English

Also in the Series | [MEAS PT1](#)



[Cable Actuated Position Sensors\(16\)](#)