

Voltage Divider Position Sensor



MEAS | MEAS PT9

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The PT9101 voltage divider position sensor is a work-horse for demanding long-range applications requiring a linear position measurements in ranges up to 1700 inches.



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The PT9101 series voltage divider position sensor is a work-horse for demanding long-range applications requiring a linear position measurements in ranges up to 1700 inches.



Position Sensor Product Type: **Industrial String Potentiometer**

Full Stroke Range: **7620 mm**

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

Accuracy: **±.1 % of FS**

Repeatability: **.02 % of FS**

Available with either a 500, 1K, 5K, or 10K ohm potentiometer, the PT9101 voltage divider position sensor operates with any basic panel meter or programmable controller.

As a member of our innovative family of NEMA 4 rated cable-extension transducers, the PT9101 offers numerous benefits. It installs in minutes, works without perfect parallel alignment, and when its stainless-steel cable is retracted, it measures only 6".

Benefits

- Absolute Linear Position to 550 inches (1400 cm)
- Aluminum or Stainless Steel Enclosure Options
- VLS Option to Prevent Free-Release Damage
- IP68
- NEMA 6 Protection

Features



Reference Number

TE Internal Number	CAT-CAPS0034
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Product Type Features

Position Sensor Product Type	Industrial String Potentiometer
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Body Features

Case Material	303 Stainless Steel, Aluminum, Stainless Steel
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Dimensions

Full Stroke Range (mm)	1905, 2540, 3810, 5080, 6350, 7620, 8890, 10160, 11430, 12700, 13970, 38100
Full Stroke Range (in)	75, 100, 150, 200, 250, 300, 350, 400, 450, 500, 550, 1500

Usage Conditions

Accuracy (% of FS)	±.1
Operating Temperature Range (°C)	-40 - 90
Operating Temperature Range (°F)	-40 - 194

Operation/Application

Output Signal Type	Voltage Divider (Potentiometric)
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Industry Standards

IP Rating	IP65, IP67, IP68
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Other

Encoder Drive	No
Repeatability (% of FS)	.02
Measuring Cable	.014 Inch Dia Nylon-Coated Stainless Steel, .031 Inch Dia Bare Stainless Steel, .034 Inch Dia Nylon-Coated Stainless Steel, .047 Inch Dia Stainless Steel, .058 Inch Dia PVC Jacketed Vectra Fiber

SEE PRODUCTS ON NEXT PAGE



Products (1 of 5)



PT9101-0300-121-1110



PT9101-0250-121-3130



PT9101-0400-121-1110



PT9101-0300-122-1110

TE Part #	04-0974-0052	04-0974-0232	04-0974-0086	04-0974-0095
Full Stroke Range	7620 mm	6350 mm	10160 mm	7620 mm
Case Material	Aluminum	Aluminum	Aluminum	Aluminum
IP Rating	IP67	IP65	IP67	IP67
Measuring Cable	.047 Inch Dia Stainless Steel	.047 Inch Dia Stainless Steel	.047 Inch Dia Stainless Steel	.047 Inch Dia Stainless Steel
EU RoHS Compliance				
EU RoHS Directive 2011/65 /EU	EU RoHS Compliant with Exemptions	Not EU RoHS Compliant	EU RoHS Compliant with Exemptions	Not EU RoHS Compliant
EU ELV Directive 2000/53/EC	Not Yet Reviewed for EU ELV	Not Yet Reviewed for EU ELV	Not Yet Reviewed for EU ELV	Not Yet Reviewed for EU ELV
Product Families	MEAS	MEAS	MEAS	MEAS
Series	MEAS PT9101	MEAS PT9101	MEAS PT9101	MEAS PT9101

*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

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Products (2 of 5)



PT9101-0300-122-1130



PT9101-0250-121-4110



PT9101-0200-121-1110



PT9101-0350-121-1110

TE Part #	04-0974-0174	04-0974-0205	04-0974-0051	04-0974-0094
Full Stroke Range	7620 mm	6350 mm	5080 mm	8890 mm
Case Material	Aluminum	Aluminum	Aluminum	Aluminum
IP Rating	IP65	IP67	IP67	IP67
Measuring Cable	.047 Inch Dia Stainless Steel	.047 Inch Dia Stainless Steel	.047 Inch Dia Stainless Steel	.047 Inch Dia Stainless Steel
EU RoHS Compliance				
EU RoHS Directive 2011/65 /EU	Not EU RoHS Compliant	EU RoHS Compliant with Exemptions	EU RoHS Compliant with Exemptions	EU RoHS Compliant with Exemptions
EU ELV Directive 2000/53/EC	Not Yet Reviewed for EU ELV	Not Yet Reviewed for EU ELV	Not Yet Reviewed for EU ELV	Not Yet Reviewed for EU ELV
Product Families	MEAS	MEAS	MEAS	MEAS
Series	MEAS PT9101	MEAS PT9101	MEAS PT9101	MEAS PT9101

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Products (3 of 5)



PT9101-0150-121-4110



PT9101-1500-112-4130: CTO-11500000-40



PT9101-0075-121-1130



PT9101-0550-142-5130

TE Part #	04-0974-0071	20005566-00	04-0974-5017	10212922-00
Full Stroke Range	3810 mm	38100 mm	1905 mm	13970 mm
Case Material	Aluminum	Aluminum	Aluminum	Aluminum
IP Rating	IP67	IP65	IP65	IP65
Measuring Cable	.047 Inch Dia Stainless Steel	.014 Inch Dia Nylon-Coated Stainless Steel	.047 Inch Dia Stainless Steel	.031 Inch Dia Bare Stainless Steel
EU RoHS Compliance				
EU RoHS Directive 2011/65 /EU	Not EU RoHS Compliant	Not EU RoHS Compliant	Not EU RoHS Compliant	Not EU RoHS Compliant
EU ELV Directive 2000/53/EC	Not Yet Reviewed for EU ELV	Out of Scope for EU ELV	Not Yet Reviewed for EU ELV	Not Yet Reviewed for EU ELV
Product Families	MEAS	MEAS	MEAS	MEAS
Series	MEAS PT9101	MEAS PT9101	MEAS PT9101	MEAS PT9101

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Products (4 of 5)



PT9101-0300-111-1130



PT9101-0500-221-6110: CTO-11500000-01



PT9101-0250-131-4140: CTO-11500000-01



PT9101-0200-121-4120: CTO-11500000-01

TE Part #	10201299-00	20002958-00	20003038-00	20003514-00
Full Stroke Range	7620 mm	12700 mm	6350 mm	5080 mm
Case Material	Aluminum	Aluminum	Aluminum	Aluminum
IP Rating	IP65	IP67	IP67	IP67
Measuring Cable	.034 Inch Dia Nylon-Coated Stainless Steel	.047 Inch Dia Stainless Steel	.058 Inch Dia PVC Jacketed Vectra Fiber	.047 Inch Dia Stainless Steel
EU RoHS Compliance				
EU RoHS Directive 2011/65 /EU	Not Yet Reviewed for EU RoHS	Not EU RoHS Compliant	Not EU RoHS Compliant	EU RoHS Compliant with Exemptions
EU ELV Directive 2000/53 /EC	Not Yet Reviewed for EU ELV	Not Yet Reviewed for EU ELV	Not Yet Reviewed for EU ELV	Not Yet Reviewed for EU ELV
Product Families	MEAS	MEAS	MEAS	MEAS
Series	MEAS PT9101	MEAS PT9101	MEAS PT9101	MEAS PT9101

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Products (5 of 5)



PT9101-0075-321-3120: CTO-11500000-01

PT9101-0075-121-4120: CTO-11500000-01

PT9101-0100-121-4120: CTO-11500000-01

PT9101-0400-131-4140

TE Part #	20002171-00	20003512-00	20003513-00	04-0974-5006
Full Stroke Range	1905 mm	1905 mm	2540 mm	10160 mm
Case Material	303 Stainless Steel, Stainless Steel	Aluminum	Aluminum	Aluminum
IP Rating	IP67	IP67	IP67	IP67
Measuring Cable	.047 Inch Dia Stainless Steel	.047 Inch Dia Stainless Steel	.047 Inch Dia Stainless Steel	.058 Inch Dia PVC Jacketed Vectra Fiber
EU RoHS Compliance				
EU RoHS Directive 2011/65 /EU	EU RoHS Compliant with Exemptions	EU RoHS Compliant with Exemptions	EU RoHS Compliant with Exemptions	EU RoHS Compliant with Exemptions
EU ELV Directive 2000/53/EC	Out of Scope for EU ELV	Out of Scope for EU ELV	Not Yet Reviewed for EU ELV	Not Yet Reviewed for EU ELV
Product Families	MEAS	MEAS	MEAS	MEAS
Series	MEAS PT9101	MEAS PT9101	MEAS PT9101	MEAS PT9

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Related Materials

[Data Sheet](#)

[PT9101](#)

English

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[Cable Actuated Position Sensors\(132\)](#)