PT9101 (Extended Range • Voltage Divider

Absolute Linear Position to 1700 inches (4300 cm)

Stroke Range Options: 0-600 to 0-1700 inches VLS Option To Prevent Free-Release Damage IP68 • NEMA 6 Protection

GENERAL

Full Stroke Range Option	0-600 to 0-1700 inches				
Output Signal	voltag	age divider (potentiometer)			
Accuracy		± 0.10% full stroke			
Repeatability		\pm 0.02% full stroke			
Resolution		essentially infinite			
Measuring Cable Options	s stain	inless steel or thermoplastic			
Enclosure Material	powder-painted alumi	minum or 303 stainless steel			
Sensor	plastic-hybrid	d precision potentiometer			
Potentiometer Cycle Life		≥ 250,000			
Maximum Retraction Acc	see ordering information				
Maximum Velocity		see ordering information			
Weight, Aluminum (Stain	14 lbs. (28 lbs.) max.				

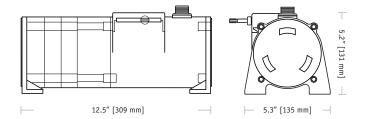
ELECTRICAL

Input Resistance Options	500, 1K, 5K, 10K Ω, bridge
Power Rating, Watts	2.0 at 70°F derated to 0 at 250° F
Recommended Maximum Input Volt	age 30V (AC/DC)
Output Signal Change Over Full Stro	ke Range 94% ±4% of input voltage

ENVIRONMENTAL

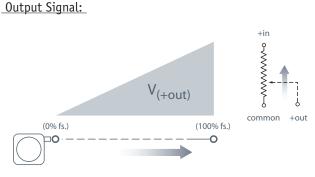
Enclosure	NEMA 4/4X/6, IP 67/68				
Operating Temperature	-40° to 200°F (-40° to 90°C)				
Vibration	up to 10 g to 2000 Hz maximum				





The PT9101 is a work-horse for demanding long-range applications requiring a linear position measurements in ranges up to 1700 inches. Available with either a 500, 1K, 5K, or 10K ohm potentiometer, the PT9101 operates with any basic panel meter or programmable controller.

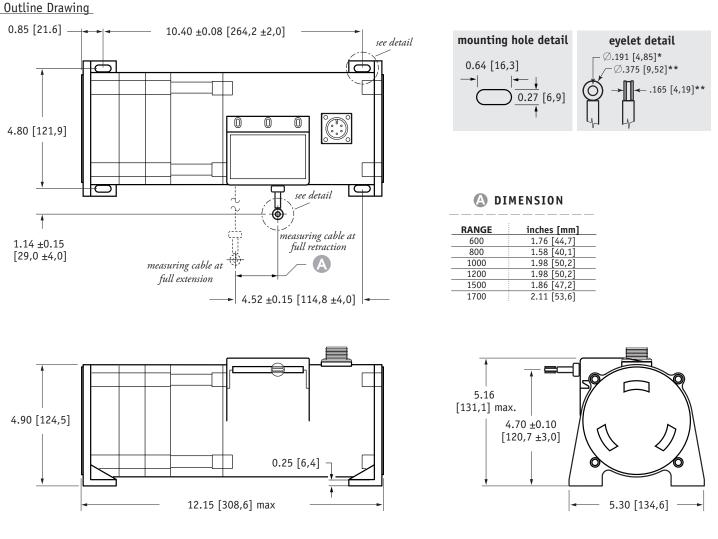
As a member of Celesco's innovative family of NEMA 4 rated cable-extension transducers, the PT9101 offers numerous benefits. It installs in minutes, works without perfect parallel alignment, and when it's stainless-steel cable is retracted, it measures only 6".



-- bridge circuit option available, see ordering information

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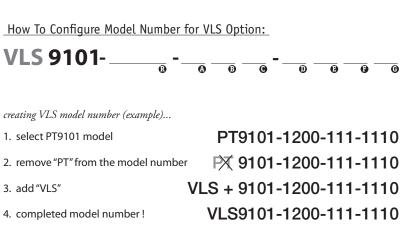
DIMENSIONS ARE IN INCHES [MM] tolerances are 0.03 IN. [0.5 MM] unless otherwise noted.

* tolerance = +.005 -.001 [+.13 -.03] ** tolerance = +.005 -.005 [+.13 -.13]

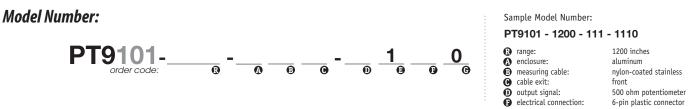
VLS Option - Free Release Protection

The patented Celesco Velocity Limiting System (VLS) is an option for PT9000 Series cable extension transducers that limits cable retraction to a safe 40 to 55 inches per second for the single spring option and 40 to 80 inches per second for the higher tension dual spring option.

The VLS option prevents the measuring cable from ever reaching a damaging velocity during an accidental free release. This option is ideal for mobile applications that require frequent cable disconnection and reconnection. It prevents expensive unscheduled downtime due to accidental cable mishandling or attachment failure.



Ordering Information:



Full Stroke Range:

Order code:	0600	0800	1000	1200		1500		1700
full stroke range, min:	600 in.	800 in.	1000 in.	1200 in.	:	1500 in.	:	1700 in.
cable tension (±35%):	27 oz.	24 oz.	20 oz.	19 oz.		18 oz.		17 oz.

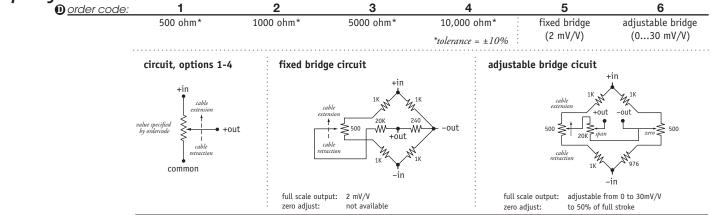
Enclosure Material:

A order code:	1	3
enclosure material:	powder-painted aluminum	303 stainless steel
max. acceleration:	1g	1g
max. velocity:	60 inches/sec.	60 inches/sec.

Measuring Cable:

B order code:		1			2					
cable construction:	nylon-coated	stainless ste	eel rope*		bare stainless steel rope*					
general use:	indoor			outdoor, debris, high temperature						
	c st	roke range:	0600	0800	1000	1200	1500	1700		
*cable diameter	r: 🖁 nylon-coate	d stainless:	.034 in.	.019 in.	.019 in.	.019 in.	.014 in.	.014 in.		
	L bar	e stainless:	.031 in.	.018 in.	.018 in.	.018 in.	.015 in.	.015 in.		

Output Signals:



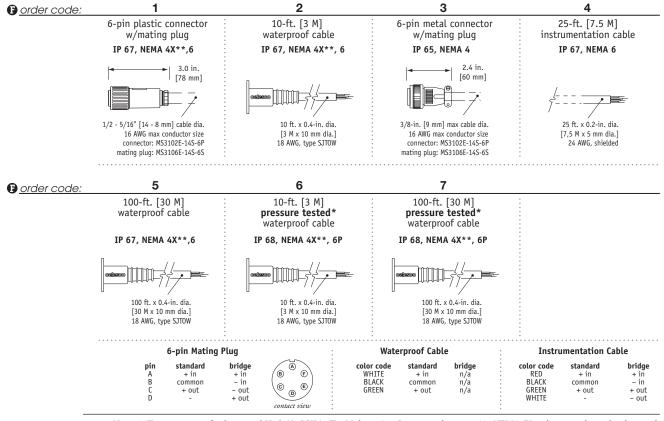
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Ordering Information (cont.):

Electrical Connection:



Notes: *-Test pressure: 100 feet [30 meters] H₂O (40 PSID); Test Medium: Air; Duration: 2 hours. **-NEMA 4X applies to stainless steel enclosure only.

version: 10.0 last updated: November 10, 2014