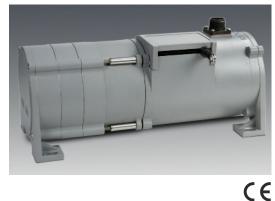


PT9101 mm

Description

- 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
- Extended range



The PT9101 is a work-horse for demanding long-range applications requiring a linear position measurements in rang- es 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 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 it's stainless-steel cable is retracted, it measures only 6".

GENERAL

Full Stroke Range Options (on this datasheet)	0-600 to 0-1700 inches
---	------------------------

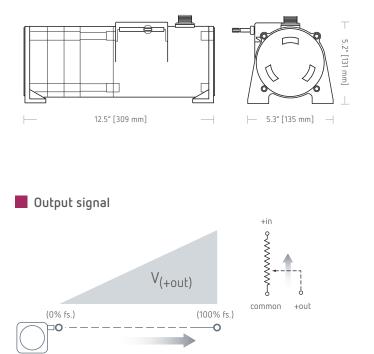
Output Signal	voltage divider (potentiometer)				
Accuracy	± 0.10% full strok				
Repeatability	± 0.02% full stroke				
Resolution	essentially infinite				
Measuring Cable Options stainless steel or thermoplasti					
Enclosure Material powder-painted	powder-painted aluminum or 303 stainless steel				
Sensor plastic-hybrid precision potentiometer					
Potentiometer Cycle Life	≥ 250,000				
Maximum Retraction Acceleration	see ordering information				
Maximum Velocity	see ordering information				
Weight, Aluminum (Stainless Steel) Enclos	ure 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 Volta	ge 30V (AC/DC)
Output Signal Change Over Full Stroke	e 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

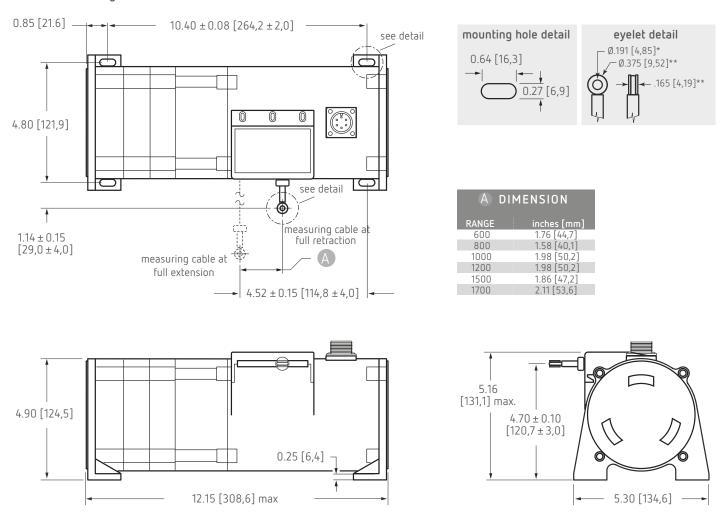


-- bridge circuit option available, see ordering information





Outline Drawing

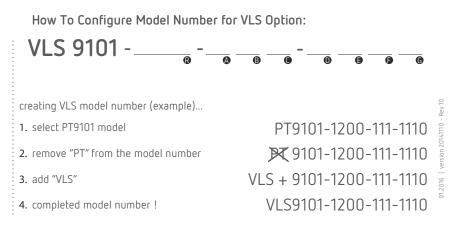


DIMENSIONS ARE IN INCHES [MM] tolerances are 0.03 IN. [0.5 MM] unless otherwise noted.

VLS Option - Free Release Protection

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





Ordering Information

Model Number PT9101- _____ - ___ - ___ - ___ 1_ ___ 0_

Sample Model Number:

PT9101 - 1200 - 111 - 1110	0
A enclosure: all enclosuring cable: ny cable exit: frr output signal: 50	200 inches uminum ylon-coated stainless ont 00 ohm potentiometer -pin plastic connector

Full Stroke Range

R 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.	

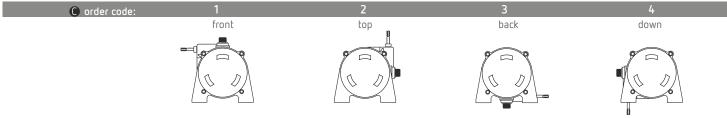
Enclosure Material

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

Measuring Cable

B order code:	1		2			
cable construction:	nylon-coated stainless steel ro	pe*	bare stainless steel rope*			
general use:	indoor outdoor, debris, high temperature					
*cable diameter:	stroke range: 060 nylon-coated stainless: .03 bare stainless: .03	4 in019 in.	.019 in.	1200 .019 in. .018 in.	.014 in. .015 in.	.014 in. .015 in.

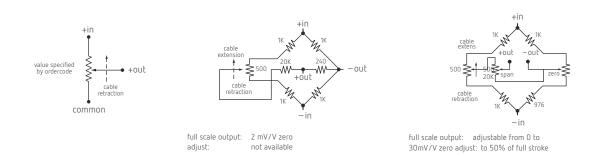
Cable Exit



Output Signals

D order code:

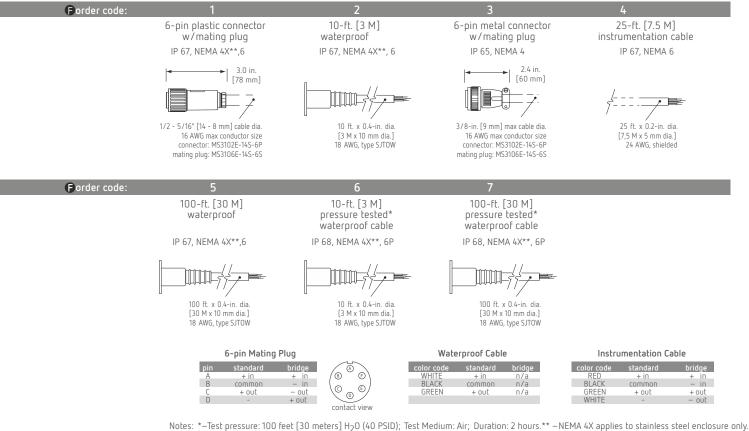




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Electrical Connection



The information provided herein is to the best of our knowledge true and accurate, it is provided for guidance only. All specifications are subject to change without prior notification.

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