PT9101 (Extended Range)

Extended Ranges • 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 Options (on this datash	neet) 0-600 to 0-1700 inches
Output Signal	voltage divider (potentiometer)
Accuracy	± 0.10% full stroke
Repeatability	± 0.02% full stroke
Resolution	essentially infinite
Measuring Cable Options	stainless steel or thermoplastic
Enclosure Material powder-painted	d aluminum or 303 stainless steel
Sensor plastic	c-hybrid precision potentiometer
Potentiometer Cycle Life	≥ 250,000
Maximum Retraction Acceleration	see ordering information
Maximum Velocity	see ordering information
Weight, Aluminum (Stainless Steel) Enclo	osure 14 lbs. (28 lbs.) max.

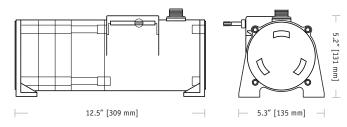
ELECTRICAL

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 Voltag	ge 30V (AC/DC)
Output Signal Change Over Full Stroke	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			

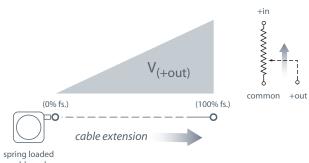




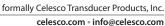
The PT9101 is a work-horse for demanding long-range applications requiring a linear position measurements in ranges up to 1700 inches. Available with either a 500, 1K, 5K, or 10K ohm potentiometer, the PT9101 operates with any basic panel meter or programmable controller.

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".

Output Signal:

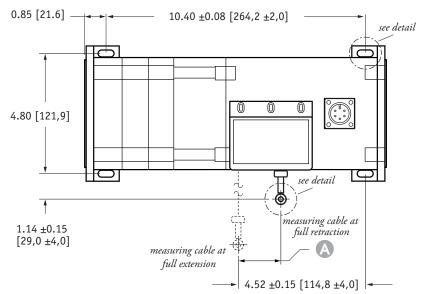


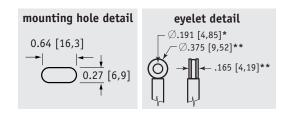




measurement

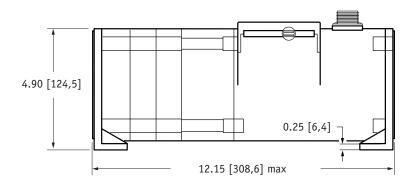
Outline Drawing

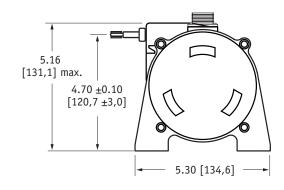




DIMENSION

RANGE	inches [mm]
600	1.76 [44,7]
800	1.58 [40,1]
1000	1.98 [50,2]
1200	1.98 [50,2]
1500	1.86 [47,2]
1700	2.11 [53,6]





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

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.

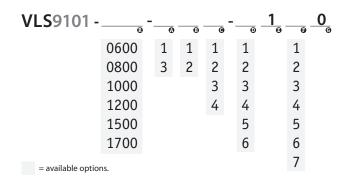
The VLS option prevents the measuring cable from ever reaching a damaging velocity during an accidental free release. This option is ideal for mobile applications that require frequent cable disconnection and reconnection. It prevents expensive unscheduled downtime due to accidental cable mishandling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

How To Configure Model Number for VLS Option:

1. using guide below, select PT9101 model **PT9101-1200-111-1110** 2. remove "PT" from the model number PX 9101-1200-111-1110

3. add "VI S" VLS + 9101-1200-111-1110

VLS9101-1200-111-1110 4. completed model number!



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

Ordering Information:

Model Number:

indoor

Sample Model Number:

PT9101 - 1200 - 111 - 1110

R range: • enclosure:
• measuring cable:

(B) electrical connection:

nylon-coated stainless

• cable exit: output signal:

high temperature

500 ohm potentiometer 6-pin plastic connector

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:

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

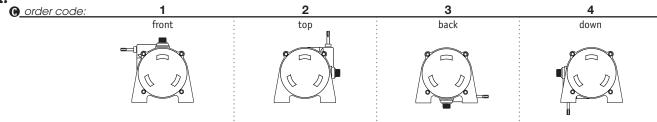
Measuring Cable:

general use:

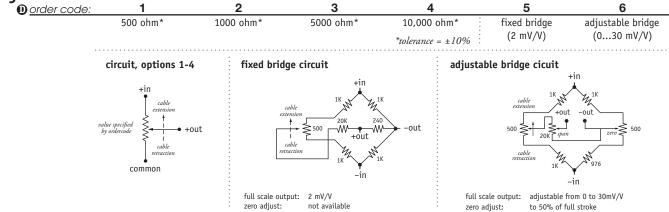
B order code: nylon-coated stainless steel rope* cable construction: bare stainless steel rope* outdoor, debris,

nylon-coated stainless: .034 in. .019 in. .019 in. .019 in. .014 in. .014 in. .018 in. .018 in. .018 in. .015 in. .015 in.

Cable Exit:

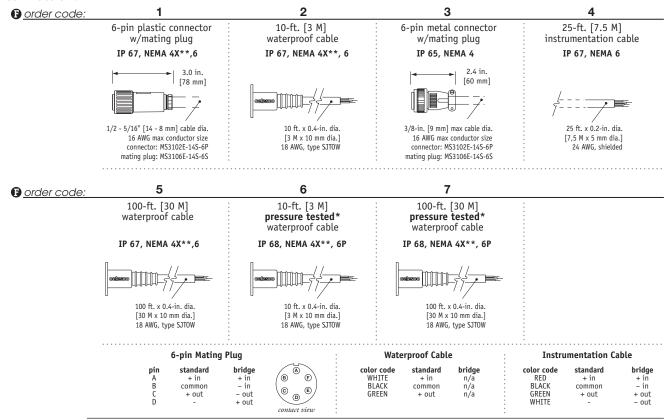


Output Signals:



Ordering Information (cont.):

Electrical Connection:



Notes: *-Test pressure: 100 feet [30 meters] H_2O (40 PSID); Test Medium: Air; Duration: 2 hours.

** –NEMA 4X applies to stainless steel enclosure only.



version: 11.0 last updated: February 11, 2016