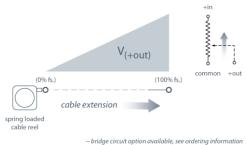




The PT9101 is a work-horse for demanding long-range applications requiring a linear position measurements in ranges up to 1700 inches. Available with either a 500, 1K, 5K, or 10K ohm potentiometer, the PT9101 operates with any basic panel meter or programmable controller.

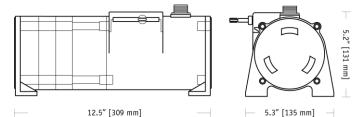
As a member of Celesco's innovative family of NEMA 4 rated cable-extension transducers, the PT9101 offers numerous benefits. It installs in minutes, works without perfect parallel alignment, and when its stainless-steel cable is retracted, it measures only 6".

## **Output Signal**



# **PT9101 (Extended Range)** Cable Actuated Sensor 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 Output Signal Accuracy Repeatability Resolution Measuring Cable Options Enclosure Material Sensor Potentiometer Cycle Life Maximum Retraction Acceleration Maximum Velocity Weight, Aluminum (Stainless Steel) Enclosure

## Electrical

Input Resistance Options Power Rating, Watts Recommended Maximum Input Voltage Output Signal Change Over Full Stroke Range

# Environmental

 Enclosure
 NEMA 4/4X/6, IP 67

 Operating Temperature
 -40° to 200°F (-40° to 90°C)

 Vibration
 up to 10 g to 2000 Hz maximum

0-600 to 0-1700 inches voltage divider (potentiometer) ± 0.10% full stroke ± 0.02% full stroke essentially infinite stainless steel or thermoplastic powder-painted aluminum or 303 stainless steel plastic-hybrid precision potentiometer ≥ 250,000 cycles

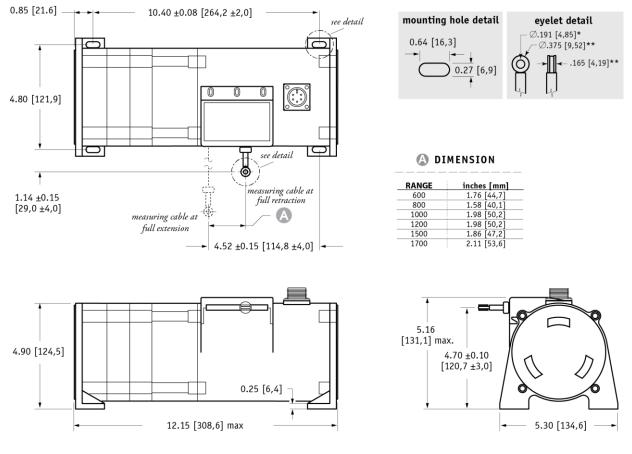
see ordering information 14 lbs. (28 lbs.), max.

see ordering information

500, 1K, 5K, 10K  $\Omega,$  bridge 2.0 at 70°F derated to 0 at 250° F 30V (AC/DC)

94% ±4% of input voltage

# **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 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.

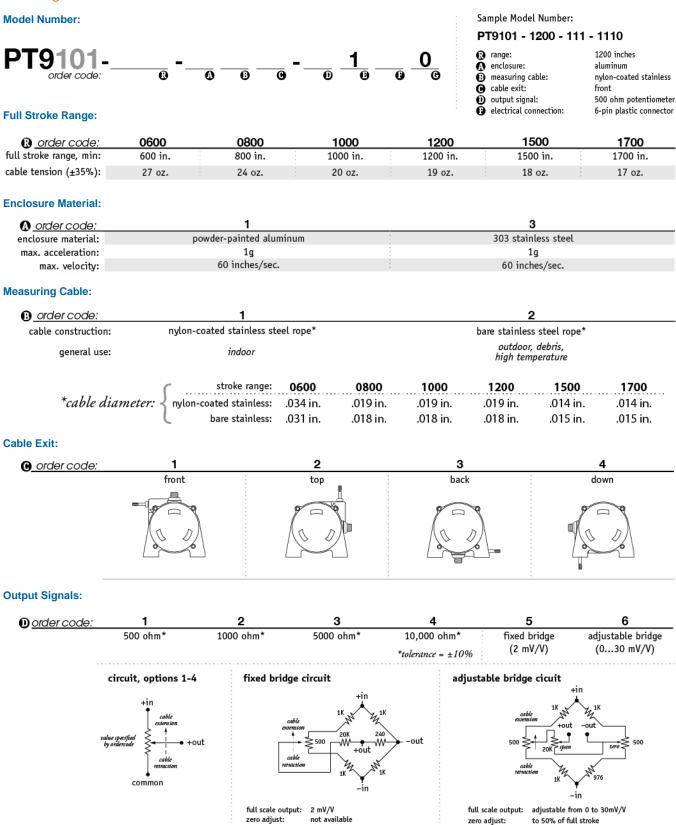
The VLS option prevents the measuring cable from ever reaching a damaging velocity during an accidental free release. This option is ideal for mobile applications that require frequent cable disconnection and reconnection. It prevents expensive unscheduled downtime due to accidental cable mishandling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

1. using guide below, select PT9101 r	nodel <b>PT9101-1200-111-1110</b>
2. remove "PT" from the model numb	er 🕅 9101-1200-111-1110
3. add "VLS"	VLS + 9101-1200-111-1110
4. completed model number!	VLS9101-1200-111-1110

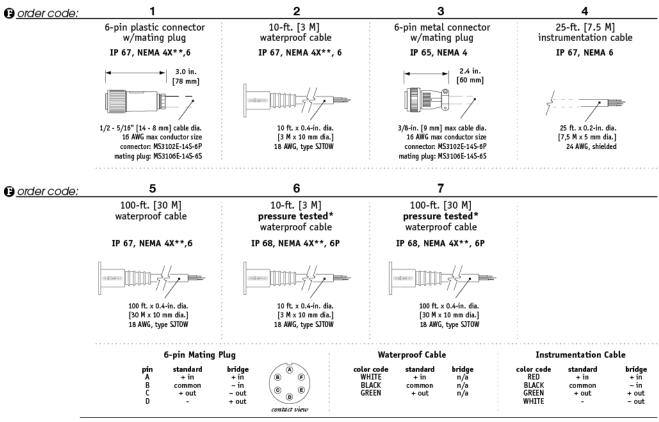
\* tolerance = +.005 -.001 [+.13 -.03] \*\* tolerance = +.005 -.005 [+.13 -.13]

VLS9101 -	8	0		G		<u> </u>	
	0600	1	1	1	1	1	
	0800	3	2	2	2	2	2
	1000			3	3	3	
	1200			4	4	4	
	1500				5	5	<b>)</b>
	1700				6	6	i l
= available option	ns.					7	,

## **Ordering Information**



### **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.

## **NORTH AMERICA**

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PT9101 Extended Range 12/01/2015