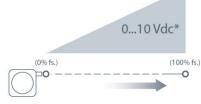


The PT9510 can operate from an unregulated 14.5 to 40 VDC power supply while providing a regulated output signal over its full extended range. It provides a 0 - 5 or 0 - 10 VDC position feedback signal proportional to the linear movement of its stainless steel measuring cable.

As a member of Celesco's innovative family of NEMA-4 rated cable-extension transducers, the PT9510 offers numerous benefits. It installs in minutes, functions properly without perfectly parallel alignment, and when its cable is retracted, it measures only 6".





*Additional Output Options: 0...5, -5...+5, -10...+10 Vdc

PT9510 Cable Actuated Sensor Heavy Industrial • 0...5 Vdc, 0...10 Vdc

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**

Resolution

Sensor Potentiometer Cycle Life **Maximum Retraction** Acceleration **Maximum Velocity**

Electrical

Input Voltage Input Current **Output Impedance Maximum Output Load** Output Signal, Zero Adjust **Output Signal, Span Adjust**

Environmental

Enclosure **Operating Temperature** Vibration

EMC COMPLIANCE PER DIRECTIVE 89/336/EEC

Emission / Immunity

0-75 to 0-550 inches 0...10, 0...5, -5...+5, -10...+10 VDC ± 0.12% full stroke ± 0.05% full stroke essentially infinite stainless steel or thermoplastic powder-painted aluminum or 303 stainless steel plastic-hybrid precision potentiometer ≥ 250,000 see ordering information

see ordering information 8 lbs. (16 lbs.) max.

14.5-40VDC (10.5-40VDC for 0-5 volt output) 10 mA maximum 1000 ohms 5000 ohms up to 50% of full stroke range to 50% of factory set span

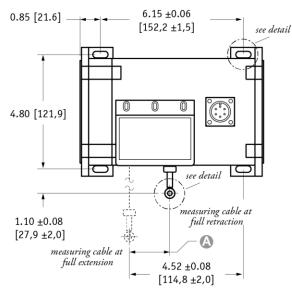
NEMA 4/4X/6, IP 67/68 -40° to 200°F (-40° to 90°C) up to 10 g to 2000 Hz maximum

EN50081-2 / EN50082-2

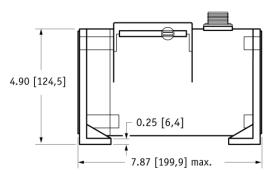
General **Full Stroke Range Output Signal** Accuracy Repeatability

Measuring Cable Options Enclosure Material

Weight, Aluminum (Stainless Steel) Enclosure

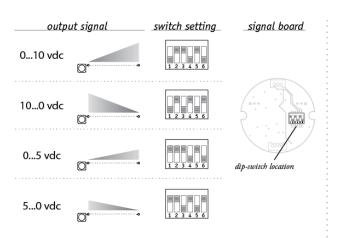




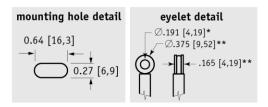


DIMENSIONS ARE IN INCHES [MM] tolerances are 0.03 IN. [0.5 MM] unless otherwise noted.



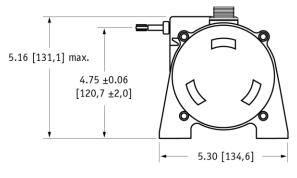


The output signal direction can be reversed at any time by simply changing the dip-switch settings found on the internal signal board. After the settings have been changed, adjustment of the Zero and Span trimpots will be required to precisely match signal values to the beginning and end points of the stroke.



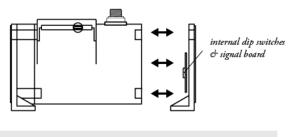
A DIMENSION (INCHES)

	MEASURING CABLE					
RANGE	Ø .031 in.	Ø .0 34 in.	Ø.047 in.	Ø .062 in.		
75	n/a	0.22	0.29	0.37		
100	n/a	0.29	0.39	0.49		
150	n/a	0.44	0.59	0.73		
200	n/a	0.58	0.79	0.98		
250	n/a	0.73	0.98	1.22		
300	n/a	0.88	1.18	1.47		
350	n/a	1.02	1.38	1.71		
400	n/a	1.17	1.57	1.96		
450	n/a	1.31	1.77	n/a		
500	n/a	1.46	1.97	n/a		
550	1.61	1.61	n/a	n/a		



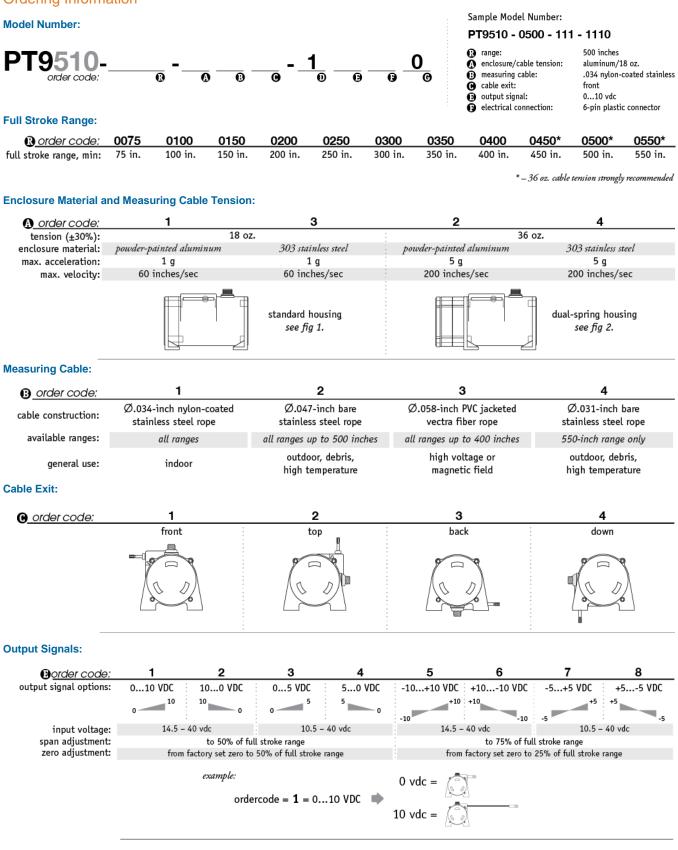
^{*} tolerance = +.005 -.001 [+.13 -.03] ** tolerance = +.005 -.005 [+.13 -.13]

To gain access to the signal board, remove four Allen-Head Screws and remove end cover bracket.

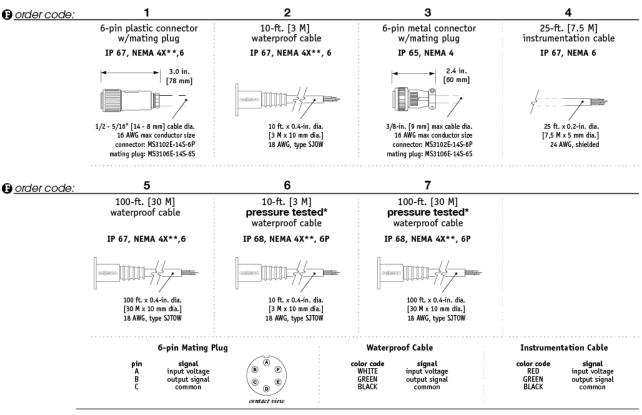


Caution! Do Not Remove Spring-Side End Cover Removing spring-side end cover could cause spring to become unseated and permanently damaged.

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.

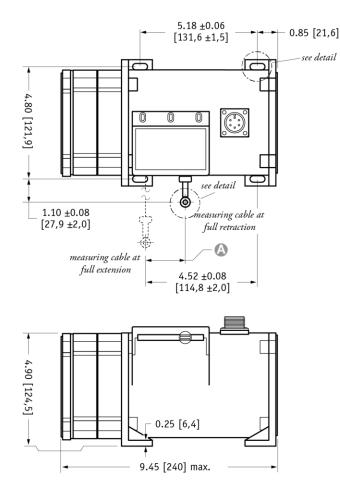
VLS Option - Free Release Protection

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 PT9510 model PT9510-0100-111-1110 2. remove "PT" from the model number PX 9510-0100-111-1110 3. add "VLS" VLS + 9510-0100-111-1110 4. completed model number! VLS9510-0100-111-1110								
VLS9510 -	0075 thru 0550	1 2 3 4	0 1 2 3 4	e 1 2 3 4	- <u>1</u> 。	9 1 2 3 4 5	9 1 2 3 4 5	0
= available o	options.					6 7 8	6 7	

Fig. 2 – Outline Drawing (36 oz. cable tension only)



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

NORTH AMERICA

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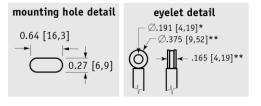
TE.com/sensorsolutions

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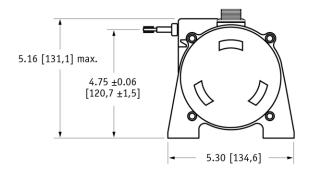
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DIMENSION (INCHES)

	MEASURING CABLE						
RANGE	Ø .031 in.	Ø .034 in.	Ø.047 in.	Ø .062 in.			
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400	n/a	1.17	1.57	1.96			
450	n/a	1.31	1.77	n/a			
500	n/a	1.46	1.97	n/a			
550	1.61	1.61	n/a	n/a			



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

PT9510 12/01/2015