PT9510 (Extended Range) Extended Ranges • 0...5 Vdc, 0...10 Vdc

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 • Hazardous Area Certification

GENERAL

Full Stroke Range Options (on this datash	neet) 0-600 to 0-1700 inches
Output Signal Options	010, 05, -5+5, -10+10 VDC
Accuracy	± 0.12% full stroke
Repeatability	± 0.05% full stroke
Resolution	essentially infinite
Measuring Cable Options	stainless steel or thermoplastic
Enclosure Material powder-painted	d 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) Enclo	sure 14 lbs. (28 lbs.) max.

ELECTRICAL

Input Voltage	14.5-40VDC (10.5-40VDC for 0-5 volt output)
Input Current	10 mA maximum
Output Impedance	1000 ohms
Maximum Output Load	5000 ohms
Output Signal, Zero Adjust	up to 50% of full stroke range
Output Signal, Span Adjust	to 50% of factory set span

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

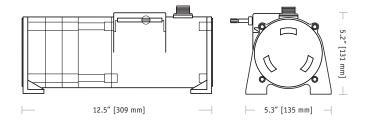
EMC COMPLIANCE PER DIRECTIVE 89/336/EEC

EN50081-2 / EN5008

⁸⁵⁸⁰⁰⁰¹⁰

Emission / Immunity

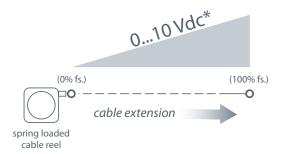




The PT9510 can operate from an unregulated 14.5 to 40 VDC power supply while providing a regulated output signal over it's full extended range of up to 1700". It provides a 0 - 10 VDC position feedback signal proportional to the linear movement of it's stainless steel measuring cable.

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".

Output Signal:

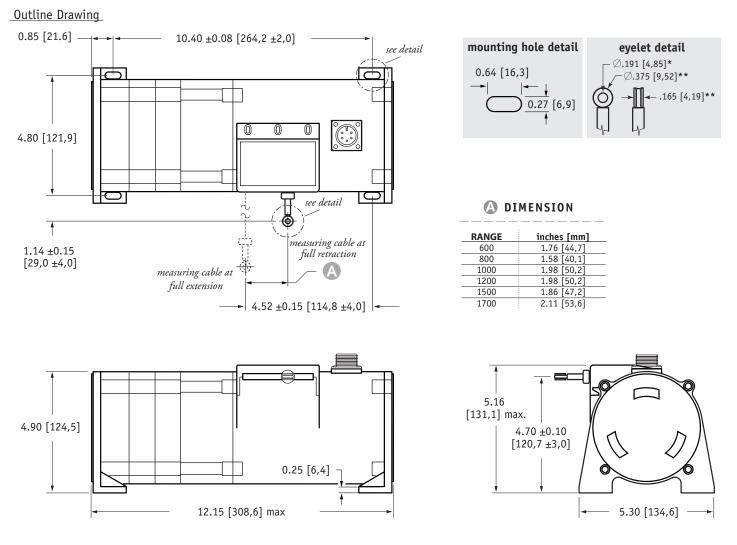


*Also Available: 0...5, -5...+5, -10...+10 Vdc

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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 PT9510 model PT9510	-1200-111-1110
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* tolerance = +.005 -.001 [+.13 -.03]

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

2. remove "PT" from the model number	PX 9510-1200-111-1110

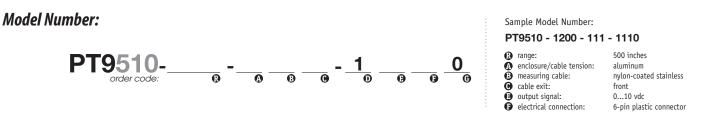
				00.0			
3. add "V	'LS″		VLS +	9510-	1200-	111-	-1110

S. auu VLS	VL3 + 9510-1200-111-1110
4. completed model number!	VLS9510-1200-111-1110

VLS9510-					1			0
	。 0600	1	© 1	0 1	0	0 1	1	G
		-	_	-		_	_	
	0800	3	2	2		2	2	
	1000			3		3	3	
	1200			4		4	4	
	1500					5	5	
	1700					6	6	
and to be a set of						7	7	
= available option	15.					8		

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Ordering Information:



Full Stroke Range:

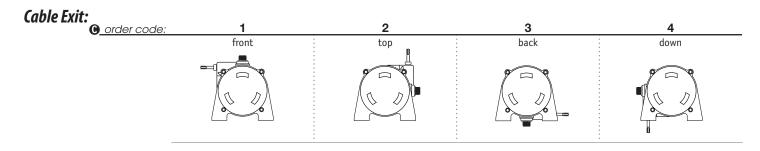
B <u>order code:</u>	0600	0800	1000		1200	1500	1700	
full stroke range, min:	600 in.	800 in.	1000 in.	:	1200 in.	1500 in.	1700 in.	
cable tension (±35%):	27 oz.	24 oz.	20 oz.	:	19 oz.	18 oz.	17 oz.	

Enclosure Material:

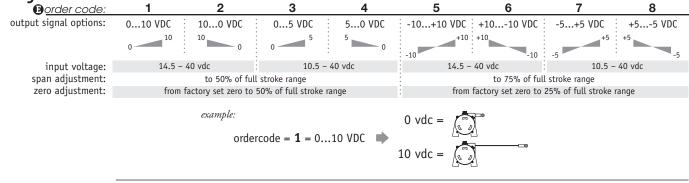
A order code:	1	3
enclosure material:	powder-painted aluminum	303 stainless steel
max. acceleration:	1g	1g
max. velocity:	60 inches/sec.	60 inches/sec.

Measuring Cable:

B _order code:	1		2					
cable construction:	nylon-coated stainless steel rope*		bare stainless steel rope*					
general use:	indoor	outdoor, debris, high temperature						
	stroke range: 0600	0800 1000	1200	1500	1700			
*cable diamete	er: { nylon-coated stainless: .034 in.	.019 in019 in.	.019 in.	.014 in.	.014 in.			
	bare stainless: .031 in.	.018 in018 in.	.018 in.	.015 in.	.015 in.			

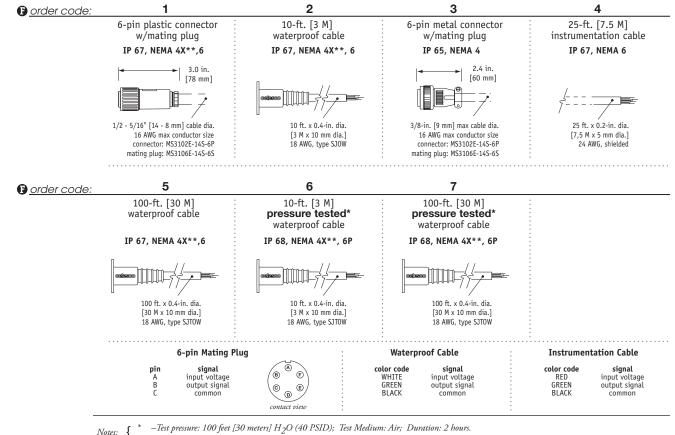


Output Signals:



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Electrical Connection:



Notes: $\begin{cases} * & -\text{Test pressure: } 100 \text{ feet } [30 \text{ meters}] H_2 O (40 \text{ PSID}); \text{ Test Medium: Air; Durat} \\ ** & -\text{NEMA 4X applies to stainless steel enclosure only.} \end{cases}$

Output Signal Settings (does not apply to -5...+5 & -10...+10 vdc options)

