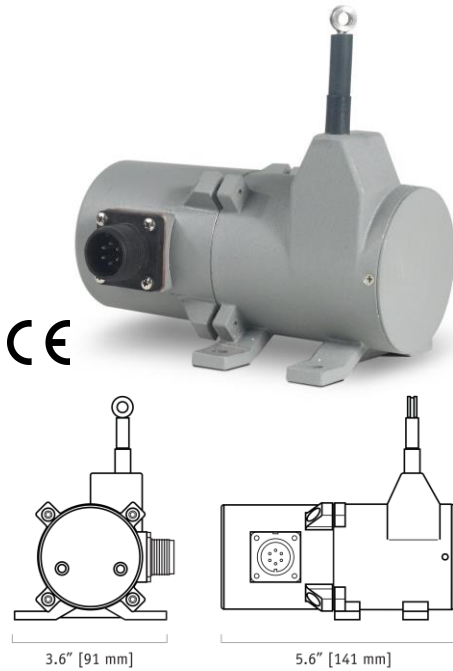
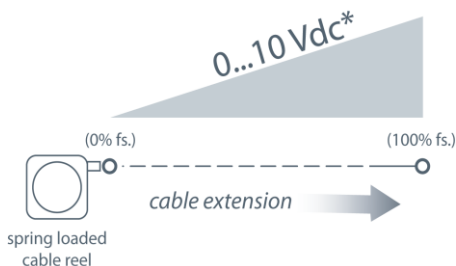




The PT8510 can operate from an unregulated 14.5 to 40 VDC power supply while providing an output signal that is proportional to the linear movement of its measuring cable. The PT8510 has a maximum measurement range up to 60" and has 4 output signal options to choose from: 0...10, 0...5, -10...+10 and -5...+5 Vdc.

As a member of our innovative family of NEMA-4 rated cable-extension transducers, the PT8510 offers numerous benefits. It installs in minutes, fits into areas unsuited for rod-type measurement devices, and works without perfectly parallel alignment.

Output Signal



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

PT8510

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

Absolute Linear Position to 60 inches (1524 mm)

Aluminum or Stainless Steel Enclosure Options

VLS Option to Prevent Free-Release Damage

IP68 • NEMA 6 Protection

General

Full Stroke Range	0-2 to 0-60 inches
Options	
Output Signal	0...5, 0...10, -5...+5, -10...+10 VDC
Accuracy	± 1.00% to ± 0.15% full stroke (see ordering information)
Repeatability	± 0.05% full stroke
Resolution	essentially infinite
Measuring Cable	nylon-coated stainless steel or thermoplastic
Enclosure Material	powder-painted aluminum or stainless steel
Sensor	plastic-hybrid precision potentiometer
Potentiometer Cycle Life	see ordering information
Maximum Retraction	see ordering information
Acceleration	
Weight	3 lbs. (6 lbs.) max.

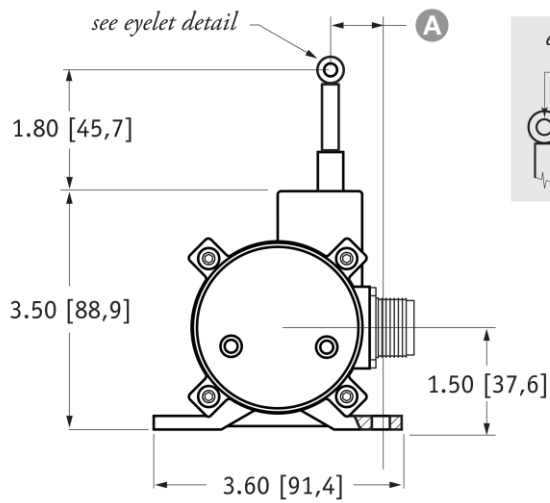
Electrical

Input Voltage	see ordering information
Input Current	10 mA maximum
Output Impedance	1000 ohms
Maximum Load	5000 ohms
Zero and Span Adjustment	see ordering information

Environmental

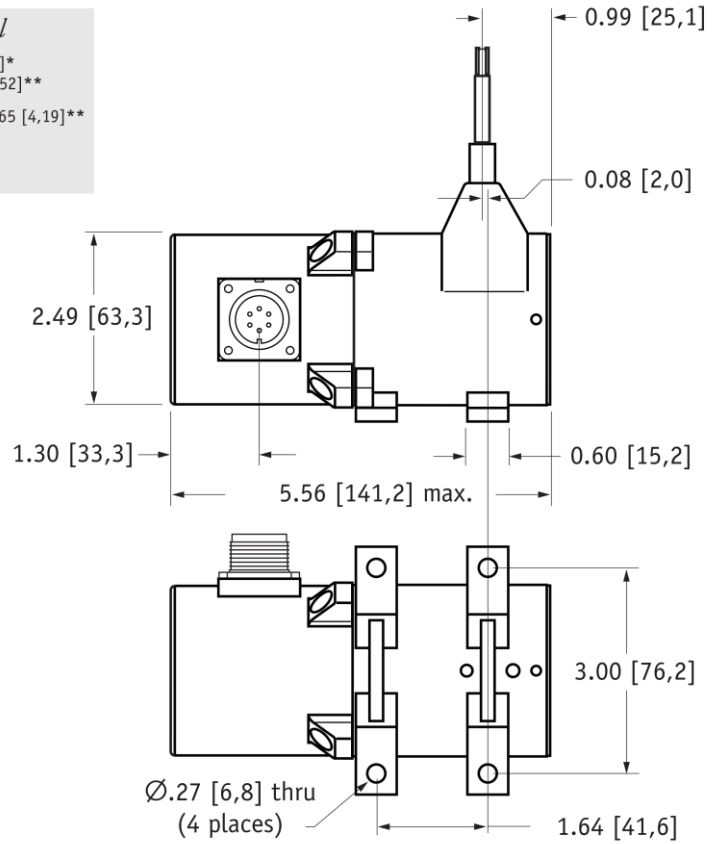
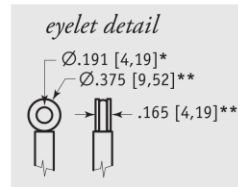
Enclosure	NEMA 4/4X/6, IP 67/68
Operating Temperature	-40° to 200°F (-40° to 90°C)
Vibration	up to 10 g to 2000 Hz maximum

Outline Drawing:



RANGE	A
2", 10"	1.16 [29,5]
5", 25", 50"	0.66 [16,8]
15"	0.99 [25,7]
20", 40"	0.85 [21,6]
30", 60"	0.52 [13,3]

DIMENSIONS ARE IN INCHES [MM]

tolerances are ± 0.02 in. [$\pm 0,5$ mm] unless otherwise notednote: *tolerance = $+0.005 -0.001$ [$+0.13 -0.03$] **tolerance = $+0.005 -0.005$ [$+0.13 -0.13$]

Ordering Information

Model Number:

PT8510- _____ **1** - **1** _____
 order code: **R** **A** **B** **C** **D** **E** **F** **G**

Sample Model Number:

PT8510 - 0030 - 111 - 1110

R range: 30 inches
A enclosure/cable tension: aluminum/standard (9 oz.)
B measuring cable: .034 nylon-coated stainless
E output signal: 0...10 vdc
F electrical connection: 6-pin plastic connector
G cable guide option: standard nylon cable guide

Full Stroke Range:

R order code:	0002	0005	0010	0015	0020	0025	0030	0040	0050	0060
full stroke range, min:	2 in.	5 in.	10 in.	15 in.	20 in.	25 in.	30 in.	40 in.	50 in.	60 in.
accuracy (% of f.s.):	1.00%	1.00%	0.18%	0.18%	0.18%	0.18%	0.18%	0.15%	0.15%	0.15%
potentiometer cycle life*:	2.5 x 10 ⁶	2.5 x 10 ⁶	5 x 10 ⁵	5 x 10 ⁵	5 x 10 ⁵	5 x 10 ⁵	5 x 10 ⁵	2.5 x 10 ⁵	2.5 x 10 ⁵	2.5 x 10 ⁵

*—1 cycle is defined as the travel of the measuring cable from full retraction to full extension and back to full retraction

Enclosure Material and Measuring Cable Tension:

A	order code:			1	5	2	3	6	4	8	7	9	
	enclosure:			aluminum			303 stainless			316 stainless			
	cable tension:			standard	medium	high	standard	medium	high	standard	medium	high	
	max. acceleration:			15 g	25 g	40 g	6 g	12 g	18 g	6 g	12 g	18 g	
cable tension option specifications	{	Range:		2 in.	5 in.	10 in.	15 in.	20 in.	25 in.	30 in.	40 in.	50 in.	60 in.
		Standard:		39 oz.	16 oz.	39 oz.	26 oz.	20 oz.	16 oz.	13 oz.	20 oz.	16 oz.	13 oz.
		Medium:		65 oz.	26 oz.	65 oz.	43 oz.	33 oz.	26 oz.	22 oz.	33 oz.	26 oz.	22 oz.
		High:		116 oz.	47 oz.	116 oz.	77 oz.	60 oz.	47 oz.	40 oz.	60 oz.	47 oz.	40 oz.
tension tolerance: ± 50%													

tension tolerance: ± 50%

Measuring Cable:

B order code:	1	2	3	4
cable construction:	Ø.034-inch nylon-coated stainless steel rope	Ø.047-inch bare stainless steel rope	Ø.058-inch PVC jacketed vectra fiber rope	Ø.031-inch bare stainless steel rope
available ranges:	all ranges	5, 15, 20, 25, 30-inch only	thru 30 inches only	40, 50, 60-inch only
general use:	indoor	outdoor, debris, high temperature	high voltage or magnetic field	outdoor, debris, high temperature

Output Signals:

F order code:	1	2	3	4	5	6	7	8
output signal options:	0...10 VDC	10...0 VDC	0...5 VDC	5...0 VDC	-10...+10 VDC	+10...-10 VDC	-5...+5 VDC	+5...-5 VDC
input voltage:	14.5 – 40 vdc	10.5 – 40 vdc	10.5 – 40 vdc	10.5 – 40 vdc	14.5 – 40 vdc	14.5 – 40 vdc	10.5 – 40 vdc	10.5 – 40 vdc
span adjustment:	to 50% of factory set span				to 75% of factory set span			
zero adjustment:	from factory set zero to 50% of full stroke range				from factory set zero to 25% of full stroke range			

Example:

ordercode = **1** = 0...10 vdc

Electrical Connection:

F <i>order code:</i>		1	2	3	4																									
		6-pin plastic connector w/mating plug IP 67, NEMA 4X**, 6	10-ft. [3 M] waterproof cable IP 67, NEMA 4X**, 6	6-pin metal connector w/mating plug IP 65, NEMA 4	25-ft. [7.5 M] instrumentation cable IP 67, NEMA 6																									
F <i>order code:</i>		5	6	7																										
		100-ft. [30 M] waterproof cable IP 67, NEMA 4X**, 6	10-ft. [3 M] pressure tested* waterproof cable IP 68, NEMA 4X**, 6P	100-ft. [30 M] pressure tested* waterproof cable IP 68, NEMA 4X**, 6P																										
		6-pin Mating Plug <table><tr><td>pin</td><td>signal</td></tr><tr><td>A</td><td>input voltage</td></tr><tr><td>B</td><td>output signal</td></tr><tr><td>C</td><td>common</td></tr></table> contact view		pin	signal	A	input voltage	B	output signal	C	common	Waterproof Cable <table><tr><td>color code</td><td>signal</td></tr><tr><td>WHITE</td><td>input voltage</td></tr><tr><td>GREEN</td><td>output signal</td></tr><tr><td>BLACK</td><td>common</td></tr></table>		color code	signal	WHITE	input voltage	GREEN	output signal	BLACK	common	Instrumentation Cable <table><tr><td>color code</td><td>signal</td></tr><tr><td>RED</td><td>input voltage</td></tr><tr><td>GREEN</td><td>output signal</td></tr><tr><td>BLACK</td><td>common</td></tr></table>	color code	signal	RED	input voltage	GREEN	output signal	BLACK	common
pin	signal																													
A	input voltage																													
B	output signal																													
C	common																													
color code	signal																													
WHITE	input voltage																													
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BLACK	common																													
color code	signal																													
RED	input voltage																													
GREEN	output signal																													
BLACK	common																													
				Note: WHITE, BLUE, BROWN are not used.																										

*—Test pressure: 100 feet [30 meters] H₂O (40 PSID); Test Medium: Air; Duration: 2 hours. **—Applies to stainless steel enclosure only.

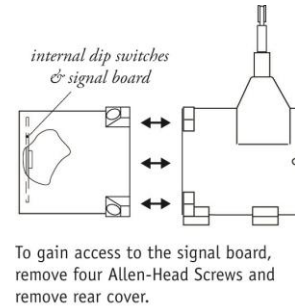
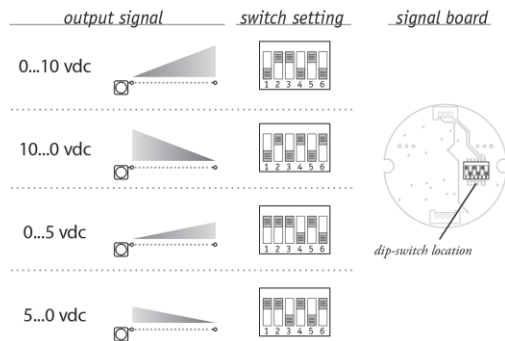
Cable Guide Options:

G order code:	0	1	2*	3
	standard cable guide	stainless steel cable guide	polyurethane cable bellows	integral cable brush

*note: all ranges up to 25 inches only

Output Signal Selection (does not apply to -5...+5 and -10...+10 VDC options)

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.



VLS Option - Free Release Protection

The patented Celesco Velocity Limiting System (VLS) is an option for PT8000 Series cable extension transducers that limits cable retraction to a safe 40 to 55 inches per second.

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.

VLS is NOT available for medium and high cable tension options or 2, 5 and 15-inch stroke ranges.

How to Configure Model Number for VLS

VLS8510-	- 1	1	- 1			
0015	1	1	0			
0020	2	2	1			
0025	3	3	3			
0030	4	4	4			
0040		5	5			
0050		6	6			
0060		7	7			
		8				

■ = available options**

creating VLS model number (example):

1. select PT8420 model **PT8510-0060-111-1110**
2. remove "PT" from the model number **8510-0060-111-1110**
3. add "VLS" **VLS + 8510-0060-111-1110**
4. completed model number! **VLS8510-0060-111-1110**

**Note: please contact factory for a solution to options not supported.

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PT8510 12/01/2015



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Электрон
Связь**

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Благодаря сотрудничеству с мировыми поставщиками мы осуществляем комплексные и плановые поставки широчайшего спектра электронных компонентов.

Собственная эффективная логистика и склад в обеспечивает надежную поставку продукции в точно указанные сроки по всей России.

Мы осуществляем техническую поддержку нашим клиентам и предпродажную проверку качества продукции. На все поставляемые продукты мы предоставляем гарантию .

Осуществляем поставки продукции под контролем ВП МО РФ на предприятия военно-промышленного комплекса России , а также работаем в рамках 275 ФЗ с открытием отдельных счетов в уполномоченном банке. Система менеджмента качества компании соответствует требованиям ГОСТ ISO 9001.

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Электронная почта: sales@st-electron.ru

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