

Our unique string encoder module mates to virtually any encoder, giving you a cost-effective long-range linear position measurement solution that precisely fits your requirements.

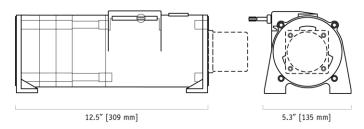
This modular approach delivers the ultimate in flexibility. To order, simply select the measurement range, the cable tension and encoder mounting style—it's that easy! We even supply all the necessary encoder mounting tools and attaching hardware. If you can't find your encoder mounting style or you want us to provide the encoder, please give us a call.

PT9600 (Extended Range)

Cable Actuated Encoder Reel

Converts ANY Rotary Encoder to a Linear Position Sensor Stroke Range Options: 0-600 to 0-1700 inches Mates Virtually ANY Customer Supplied Encoder

Factory Supplied Encoder Available



General

Full Stroke Range 0-600 to 0-1700 inches

Motion Conversion Ratio 12.6 inches per turn, see ordering information

Accuracy the lessor of $\pm 0.02\%$ f.s. or $\pm 0.04\%$ measurement

±1/2 pulse

Accuracy, best not less than 0.001 in. (0.03mm)

Repeatability $\pm 0.02\%$ of measurement $\pm 1/2$ pulse

Measuring Cable Options see ordering information

Module Material Options powder-painted aluminum or stainless

Encoder Coupling aluminum flexible coupling

Maximum Allowable 1.0 in-lbs.

Rotational Sensor Torque

Maximum Retraction see ordering information

Maximum Velocity see ordering information

Weight Aluminum (Stainless 14 lbs. (28 lbs.) max.

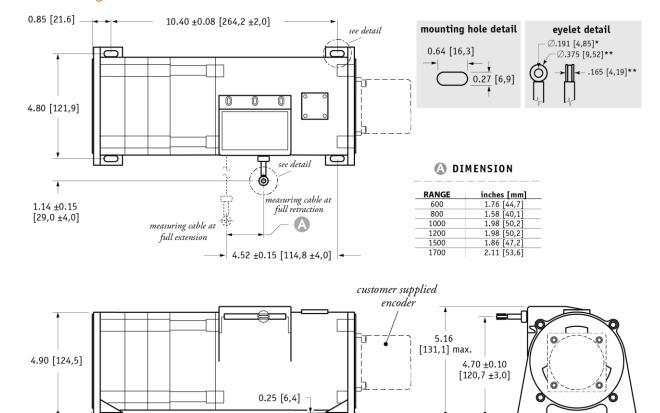
Steel) Enclosure

Environmental

Acceleration

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

Outline Drawing



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

12.15 [308,6] max

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

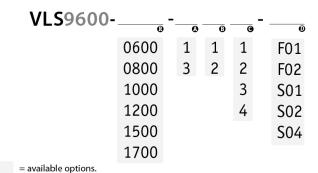
5.30 [134,6]

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.

using guide below, select PT9600 model PT9600-1200-111-F01
 remove "PT" from the model number VLS + 9600-1200-111-F01
 completed model number! VLS9600-1200-111-F01



Ordering Information

Model Number:

PT9600-______ -___ -___ -___ -____ -____

Sample Model Number:

PT9600 - 1500 - 111 - F01

(*) range: 1500 inches
(*) enclosure: aluminum

B measuring cable: nylon coated stainless steel (Ø.014 in.)

• cable exit: front

notational sensor mounting style: F01 (2.5-in. sq. flange)

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.

conversion ratio (nylon-coated stainless steel rope option)

measuring cable diameter:	Ø.034-in.	Ø.019-in.	Ø.019-in.	Ø.019-in.	Ø.014-in.	Ø.014-in.
aluminum enclosure, 1 turn =	12.673 ± .016 in.	12.626 ± .016 in.	12.626 ± .016 in.	12.626 ± .016 in.	12.613 ± .016 in.	12.613 ± .016 in.
stainless steel enclosure, 1 turn =	12.579 ± .022 in.	12.532 ± .022 in.	12.532 ± .022 in.	12.532 ± .022 in.	12.519 ± .022 in.	12.519 ± .022 in.

conversion ratio (bare stainless steel rope option)

measuring cable diameter:	Ø.031-in.	Ø.018-in.	Ø.018-in.	Ø.018-in.	Ø.014-in.	Ø.014-in.
aluminum enclosure, 1 turn =	12.662 ± .016 in.	12.623 ± .016 in.	12.623 ± .016 in.	12.623 ± .016 in.	12.613 ± .016 in.	12.613 ± .016 in.
stainless steel enclosure, 1 turn =	12.570 ± .022 in.	12.529 ± .022 in.	12.529 ± .022 in.	12.529 ± .022 in.	12.519 ± .022 in.	12.519 ± .022 in.

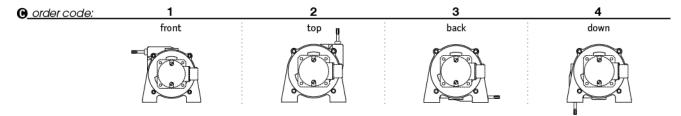
Enclosure Material:

♠ 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:

⊕ order code: ■			2						
cable construction:	: nylon-coated stainless steel rope*				bare stainless steel rope*				
general use:	se: indoor				outdoor, debris, high temperature				
	(stroke range:	0600	0800	1000	1200	1500	1700	
*cable dia	<i>meter:</i> $ mid injection $	coated stainless:	.034 in.	.019 in.	.019 in.	.019 in.	.014 in.	.014 in.	
	(hare stainless:	.031 in	.018 in	.018 in	018 in	.015 in.	.015 in	

Cable Exit:

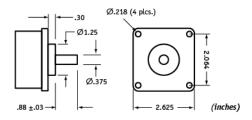


Rotational Sensor Mounting Style

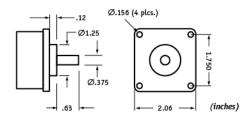
order code:	F01	F02	S01	S02	S04
	2.5-in. Flange Mount	2-in. Flange Mount	Face-Mount	Face-Mount	Face-Mount
	3/8-inch shaft	3/8-inch shaft	6 mm shaft	10 mm shaft	10 mm shaft
			M4 mounting screws	M4 mounting screws	M3 mounting screws

Note: If you don't see your encoder style, please contact factory. All encoder types supported.

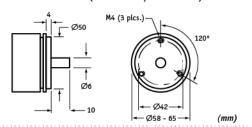
FO1 - 21/2-inch Sq. Flange Mount (3/8-inch shaft)



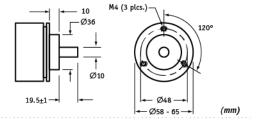
FO2 - 2-inch Sq. Flange Mount (3/8-inch shaft)



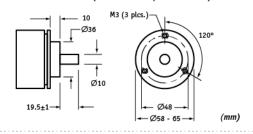
SO1 - Face-Mount (6mm shaft/M4 screws)



SO2 - Face-Mount (10mm shaft/M4 screws)



SO4 - Face-Mount (10mm shaft/M3 screws)



NORTH AMERICA

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