





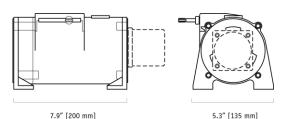
Our unique string encoder module mates to virtually any encoder, giving you a cost-effective long-range linear position measurement solution that precisely fits your requirements.

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

## Cable Actuated Encoder Reel

**Converts ANY Rotary Encoder to a Linear Position Sensor** Linear Stroke Range up to 550 inches (14 m) **Mates Virtually ANY Customer Supplied Encoder Factory Supplied Encoder Available** 



## General

**Full Stroke Range** 0-75 to 0-550 inches

**Motion Conversion Ratio** 12.6 inches per turn, see ordering information

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

measurement ±1/2 pulse

Accuracy, best not less than 0.001 in. (0.03mm) Repeatability ±0.02% of measurement ±1/2 pulse

**Measuring Cable Options** see ordering information

powder-painted aluminum or stainless **Module Material Options** 

**Encoder Coupling** aluminum flexible coupling

**Maximum Allowable Rotational** 1.0 in-lbs.

**Sensor Torque** 

**Maximum Retraction** 

see ordering information Acceleration

**Maximum Velocity** 

see ordering information Weight, Aluminum (Stainless 8 lbs. (16 lbs.) max.

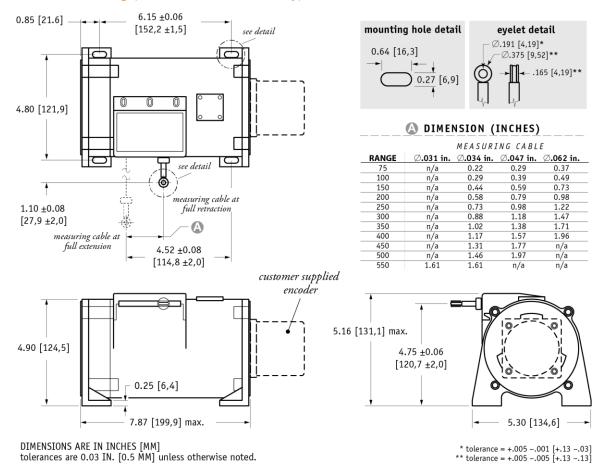
Steel) Enclosure

### **Environmental**

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

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Fig. 1 – Outline Drawing (18 oz. cable tension only)

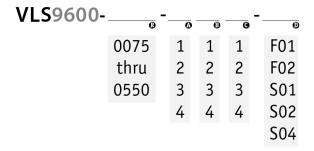


#### VLS Option - Free Release Protection

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 PT9600 mo	del PT9600-0100-111-F01
2. remove "PT" from the model number	XT 9600-0100-111-F01
3. add "VLS"	VLS + 9600-0100-111-F01
4. completed model number!	VLS9600-0100-111-F01



= available options.

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## **Ordering Information**

#### **Model Number:**



#### Sample Model Number:

#### PT9600 - 0200 - 111 - F01

R range: 200 inches aluminum / 18 oz.

enclosure / cable tension:measuring cable: .034 nylon-coated stainless

• cable exit: front

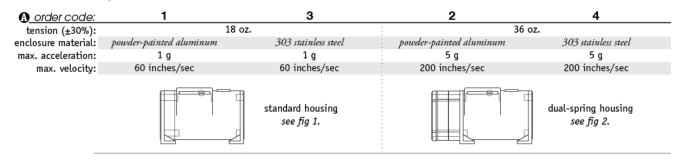
notational sensor mounting style: F01 (2.5-in. sq. flange)

#### **Full Stroke Range:**

Order code:	0075	0100	0150	0200	0250	0300	0350	0400	0450*	0500*	0550*
full stroke range, min:	75 in.	100 in.	150 in.	200 in.	250 in.	300 in.	350 in.	400 in.	450 in.	500 in.	550 in.

\* – 36 oz. cable tension strongly recommended

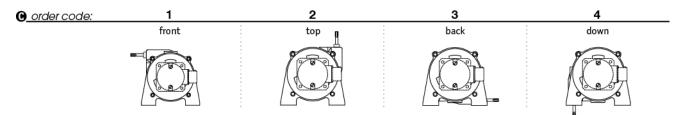
#### **Enclosure / Measuring Cable Tension:**



#### **Measuring Cable/ Conversion Ratio:**

<b>⊕</b> order code:	1	2	3	4
cable construction:	Ø.034-inch nylon-coated stainless steel rope	$\emptyset$ .047-inch bare stainless steel rope	$\emptyset$ .058-inch PVC jacketed vectra fiber rope	Ø.031-inch bare stainless steel rope
available ranges:	all ranges	all ranges up to 500 inches	all ranges up to 400 inches	550-inch range only
general use:	indoor	indoor outdoor, debris, high temperature		outdoor, debris, high temperature
conversion ( aluminum enclosure:	1 turn = 12.673 ± 0.016 in.	1 turn = 12.714 ± 0.016 in.	1 turn = 12.755 ± 0.016 in.	1 turn = 12.664 ± 0.016 in.
ratio ( stainless enclosure:	1 turn = 12.579 ± 0.022 in.	1 turn = 12.620 ± 0.022 in.	1 turn = 12.661 ± 0.022 in.	1 turn = 12.569 ± 0.022 in.

#### Cable Exit:

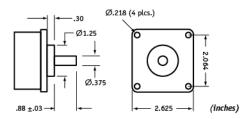


#### **Rotational Sensor Mounting Style:**

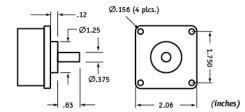
<b>0</b> order code:	F01	F02	S01	S02	S04
	2.5-in. Flange Mount	2-in. Flange Mount	Face-Mount	Face-Mount	Face-Mount
	3/8-inch shaft	3/8-inch shaft	6 mm shaft	10 mm shaft	10 mm shaft
			M4 mounting screws	M4 mounting screws	M3 mounting screws

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

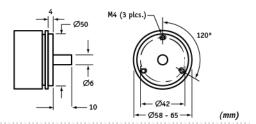
FO1 - 21/2-inch Sq. Flange Mount (3/8-inch shaft)



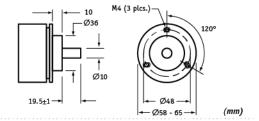
FO2 - 2-inch Sq. Flange Mount (3/8-inch shaft)



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



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



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

