

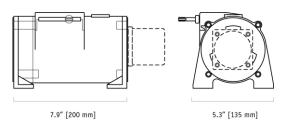
Our unique string encoder module mates to virtually any encoder, giving you a cost-effective long-range linear position measurement solution that precisely fits your requirements.

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

Steel) Enclosure

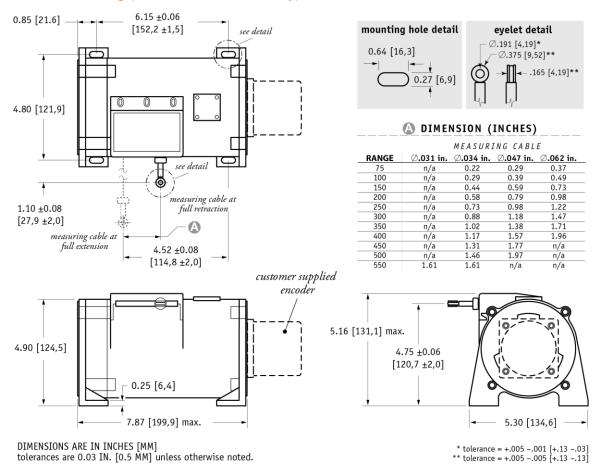
8 lbs. (16 lbs.) max.

Environmental

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

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

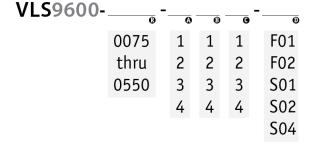


VLS Option - Free Release Protection

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.

using guide below, select PT9600 model
remove "PT" from the model number
add "VLS"
PT9600-0100-111-F01
T 9600-0100-111-F01
VLS + 9600-0100-111-F01
completed model number!



= 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

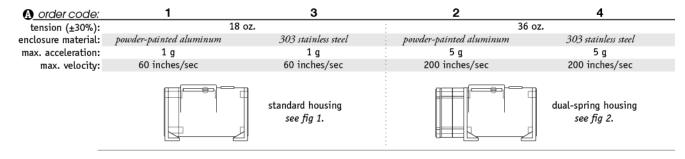
notational sensor mounting style: F01 (2.5-in. sq. flange)

Full Stroke Range:

| <u>R order code:</u> | 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

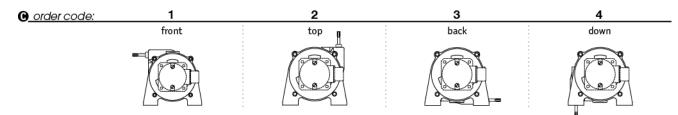
Enclosure / Measuring Cable Tension:



Measuring Cable/ Conversion Ratio:

| ⊕ order co | de: 1 | 2 | 3 | 4 | |
|-----------------------------|---|--------------------------------------|---|--------------------------------------|--|
| cable construct | ion: 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 ran | ges: all ranges | all ranges up to 500 inches | all ranges up to 400 inches | 550-inch range only | |
| general | use: indoor | outdoor, debris, high temperature | high voltage or magnetic field | outdoor, debris, high temperature | |
| conversion (aluminum enclo | sure: 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 enclo | sure: 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:

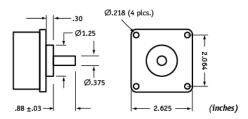


Rotational Sensor Mounting Style:

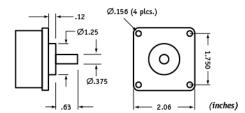
| order code: | F01 | F02 | S01 | S02 | S04 | |
|-------------|----------------------|--------------------|--------------------|--------------------|--------------------|--|
| | 2.5-in. Flange Mount | 2-in. Flange Mount | Face-Mount | Face-Mount | Face-Mount | |
| | 3/8-inch shaft | 3/8-inch shaft | 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.

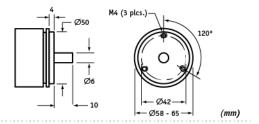
FO1 - 21/2-inch Sq. Flange Mount (3/8-inch shaft)



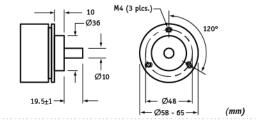
FO2 - 2-inch Sq. Flange Mount (3/8-inch shaft)



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



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



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

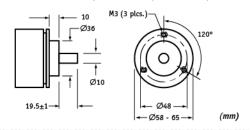
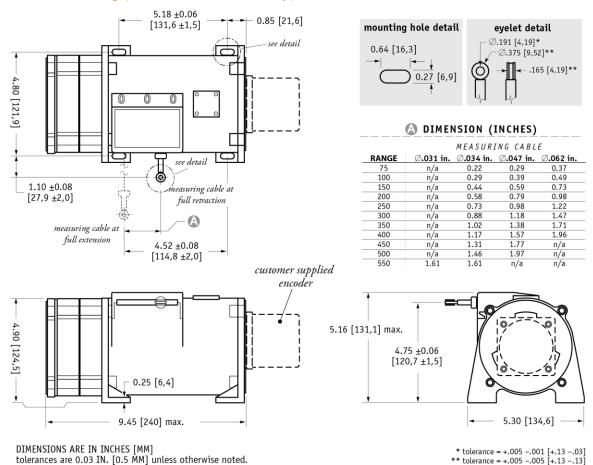


Fig. 2 – Outline Drawing (36 oz. cable tension only)



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