**Mates To Virtually Any Encoder**
**Ranges: 0-600 to 0-1700 inches**
**Available With or Without Encoder**

*<Extended Range>*

# PT9600

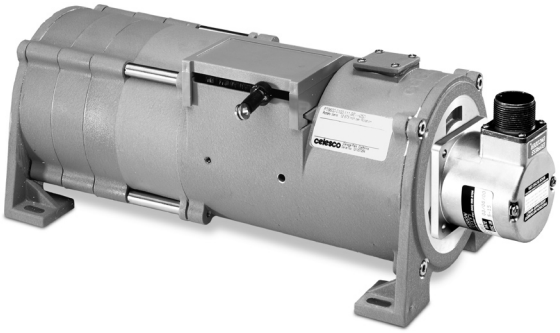
## Specification Summary:

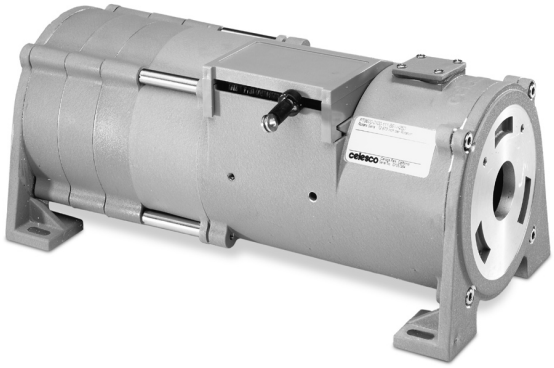
**GENERAL**

Full Stroke Range Options–*on this datasheet* ..... 0-600 to 0-1700 inches
Motion Conversion Ratio ..... 12.6 inches per turn, *see ordering information*
Accuracy
Typical .....the lesser of 0.02% f.s. or 0.04% of measurement ±1/2 pulse max.
Best.....not less than 0.001 in. (0.03 mm)
Repeatability.....± 0.02% of measurement ±1/2 pulse max.
Measuring Cable ..... nylon-coated stainless steel
Enclosure Material.....powder-painted aluminum
Encoder Shaft Coupling ..... aluminum flexible coupling
Maximum Allowable Rotational Sensor Torque..... 1.0 in-lbs.
Maximum Retraction Acceleration .....*see ordering information*
Maximum Velocity .....*see ordering information*
Weight, Aluminum (Stainless Steel) Enclosure ..... 14 lbs. (28 lbs.) max.

**ENVIRONMENTAL**

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





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.

## Ordering Information:

### *Model Number:*

**PT9600-** ____ Ⓡ **-** ____ Ⓐ **1** ____ Ⓑ ____ Ⓒ **-** ____ Ⓓ
*order code:*

*» Trying to reorder but can't find your existing model number? Please contact factory for help.*

Sample Model Number:

**PT9600 - 1500 - 111 - F01**

| | | |
|---|---|---|
| Ⓡ | range: | 1500 inches |
| Ⓐ | enclosure: | aluminum |
| Ⓒ | cable exit: | front |
| Ⓓ | rotational sensor mounting style: | F01 (2.5-in. sq. flange) |

### *Full Stroke Range /Conversion Ratio:*

| Ⓡ *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 (±30%): | 25 oz. | 25 oz. | 24 oz. | 24 oz. | 23 oz. | 23 oz. |
| measuring cable: | .034-in. dia. nylon-coated stainless | .019-in. dia. nylon-coated stainless | .019-in. dia. nylon-coated stainless | .019-in. dia. nylon-coated stainless | .014-in. dia. nylon-coated stainless | .014-in. dia. nylon-coated stainless |
| aluminum enclosure, 1 turn = | 12.673 ± .010 in. | 12.626 ± .010 in. | 12.626 ± .010 in. | 12.626 ± .010 in. | 12.613 ± .010 in. | 12.613 ± .010 in. |
| stainless steel enclosure, 1 turn = | 12.579 ± .010 in. | 12.532 ± .010 in. | 12.532 ± .010 in. | 12.532 ± .010 in. | 12.519 ± .010 in. | 12.519 ± .010 in. |

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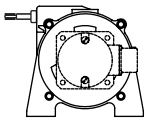
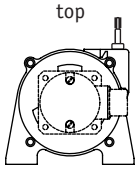
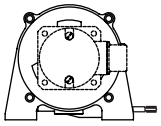
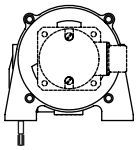
Celesco Transducer Products, Inc.
20630 Plummer Street • Chatsworth, CA 91311
tel: 800.423.5483 • +1.818.701.2750 • fax: +1.818.701.2799

## Enclosure Material:

| Ⓐ order code: | 1 | 3 |
|---|---|---|
| enclosure material: | powder-painted aluminum | 303 stainless steel |
| max. acceleration: | 1G | .33G |
| max. velocity: | 60 inches/sec. | 20 inches/sec. |

## Cable Exit:

Ⓒ order code:

| 1 | 2 | 3 | 4 |
|---|---|---|---|
| front | top | back | down |
|  |  |  |  |

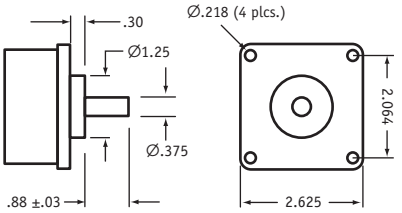
## Rotational Sensor Mounting Style:

Ⓓ order code:

| F01 | F02 | S01 | S02 | S04 |
|---|---|---|---|---|
| 2.5-in. Flange Mount<br>3/8-inch shaft | 2-in. Flange Mount<br>3/8-inch shaft | Face-Mount<br>6 mm shaft<br>M4 mounting screws | Face-Mount<br>10 mm shaft<br>M4 mounting screws | Face-Mount<br>10 mm shaft<br>M3 mounting screws |

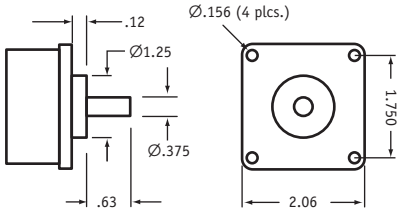
*Note: If you don't see your encoder style, please contact factory. All encoder types supported.*

**F01** - 2½-inch Sq. Flange Mount (3/8-inch shaft)



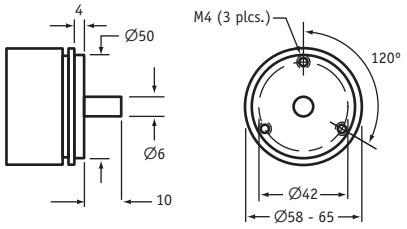

*all dimensions are in* ***inches***

**F02** - 2-inch Sq. Flange Mount (3/8-inch shaft)



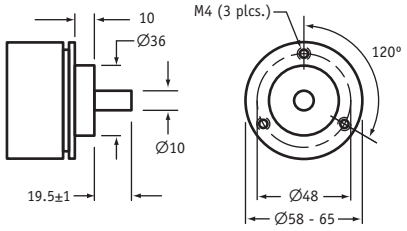

*all dimensions are in* ***inches***

**S01** - Face-Mount (6mm shaft/M4 screws)



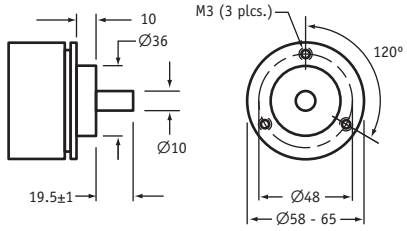

*all dimensions are in* ***mm***

**S02** - Face-Mount (10mm shaft/M4 screws)



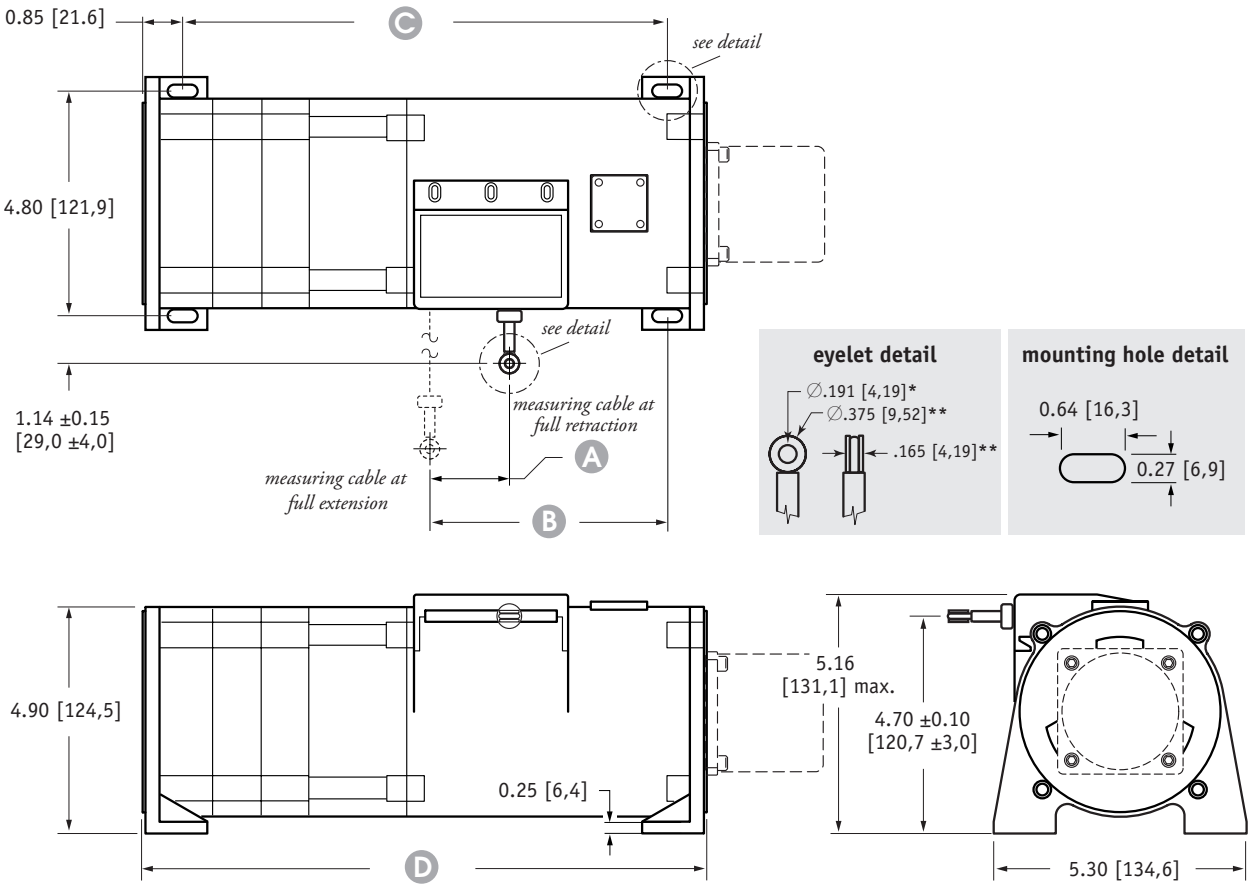

*all dimensions are in* ***mm***

**S04** - Face-Mount (10mm shaft/M3 screws)




*all dimensions are in* ***mm***

## Outline Drawing




*full stroke range*

| | 600 in. | 800 in. | 1000 in. | 1200 in. | 1500 in. | 1700 in. |
|---|---|---|---|---|---|---|
| A | 1.76 [44,7] | 1.58 [40,1] | 1.98 [50,2] | 1.49 [37,8] | 1.86 [47,2] | 2.11 [53,6] |
| B | 4.52 ±0.15 [114,8 ±4,0] | | | | | |
| C | 10.40 ±0.08 [264,2 ±2,0] | | | | | |
| D | 12.15 [308,6] max. | | | | | |

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

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