

String Encoder

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 $\pm 1/2$ pulse max.

Best not less than 0.001 in. (0.03 mm)

Repeatability $\pm 0.02\%$ of measurement $\pm 1/2$ 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: **R** **A** **B** **C** **D**

Sample Model Number:

PT9600 - 1500 - 111 - F01

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

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

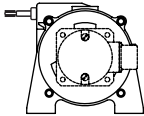
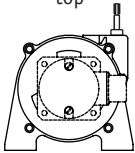
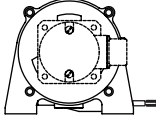
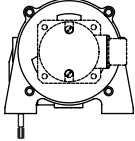
Full Stroke Range/Conversion Ratio:

R 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 ($\pm 35\%$):	27 oz.	24 oz.	20 oz.	19 oz.	18 oz.	17 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 $\pm$.010 in.	12.626 $\pm$.010 in.	12.626 $\pm$.010 in.	12.626 $\pm$.010 in.	12.613 $\pm$.010 in.	12.613 $\pm$.010 in.
stainless steel enclosure, 1 turn =	12.579 $\pm$.010 in.	12.532 $\pm$.010 in.	12.532 $\pm$.010 in.	12.532 $\pm$.010 in.	12.519 $\pm$.010 in.	12.519 $\pm$.010 in.

Enclosure Material:

A 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:

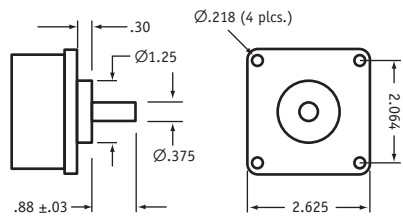
C order code:	1	2	3	4
	front	top	back	down
				

Rotational Sensor Mounting Style:

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

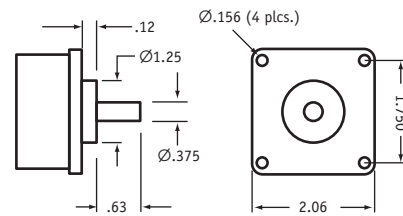
Note: If you don't see your encoder style, please contact factory. All encoder types supported.

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



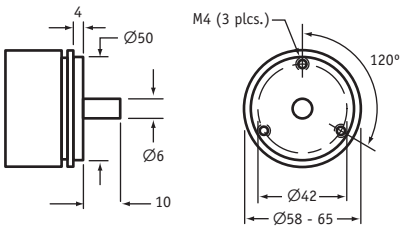
all dimensions are in inches

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



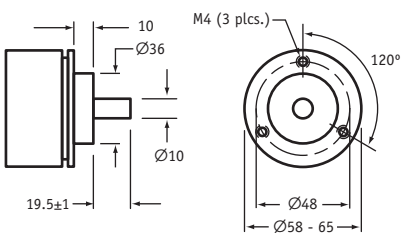
all dimensions are in inches

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



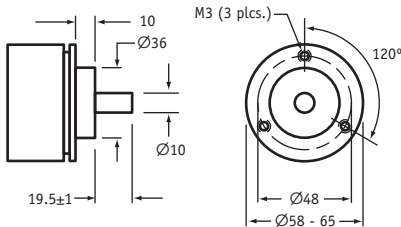
all dimensions are in mm

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



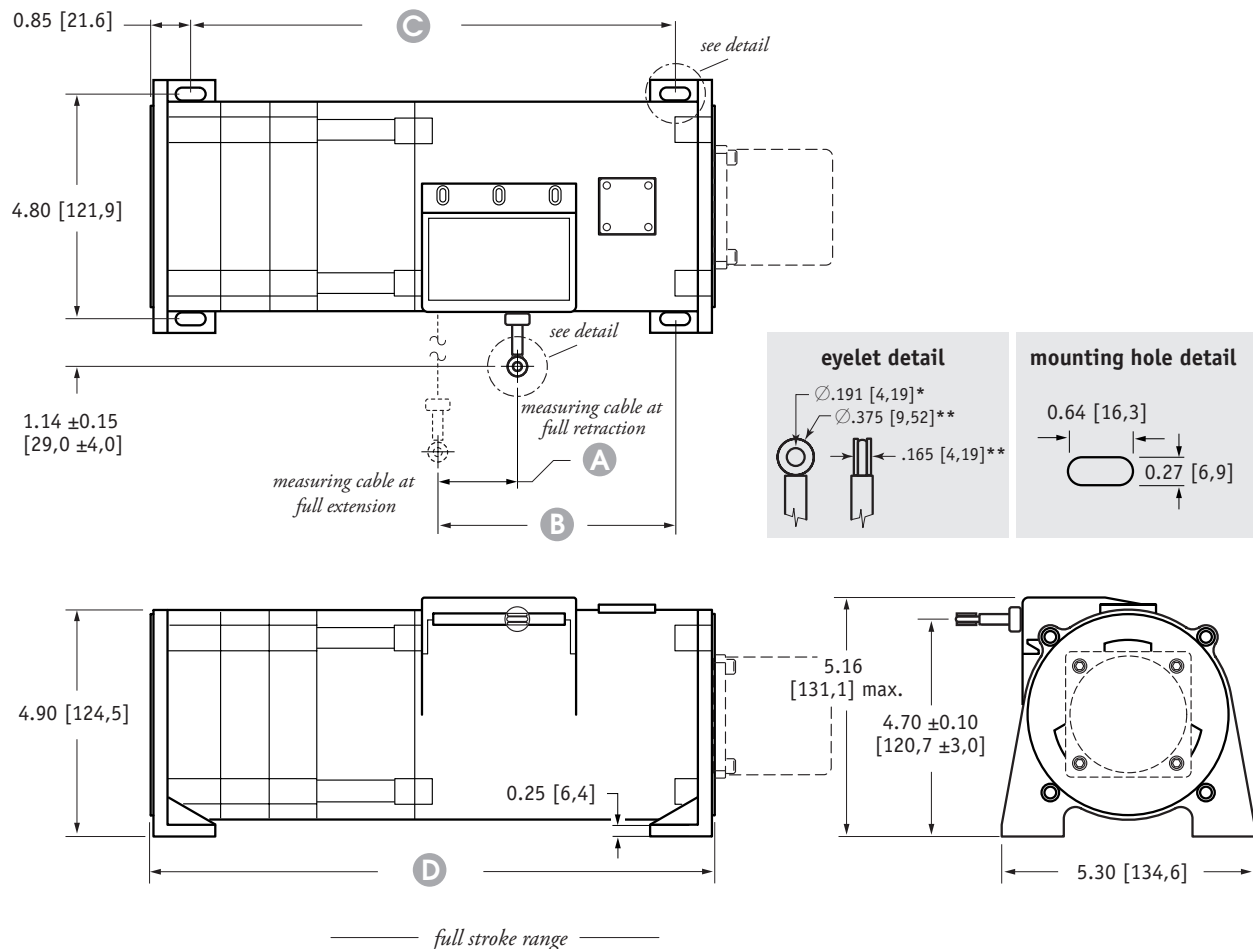
all dimensions are in mm

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



all dimensions are in mm

Outline Drawing



	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 [+1.3 -1.3]