



## PT9600

#### Description

- 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
- Extended range



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.

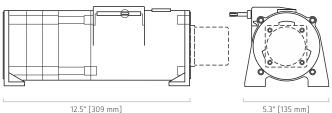
This modular approach delivers the ultimate in flexibility. To order, simply select the measurement range, the cable tension and encoder mounting style—it's that easy! We even supply all the necessary encoder mounting tools and attaching hardware. If you can't find your encoder mounting style or you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

#### **GENERAL**

0-600 to 0-1700 in. Full Stroke Range Options (on this datasheet) Motion Conversion Ratio 12.6 inches per turn, see ordering information the lessor of  $\pm 0.02\%$  f.s. or  $\pm 0.04\%$  measurement  $\pm 1/2$  pulse Accuracy Accuracy, best not less than 0.001 in. (0.03mm) Repeatability ±0.02% of measurement ±1/2 pulse see ordering information Measuring Cable Options Module Material Options powder-painted aluminum or stainless **Encoder 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.



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

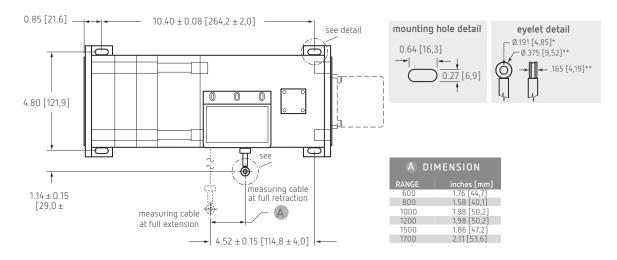


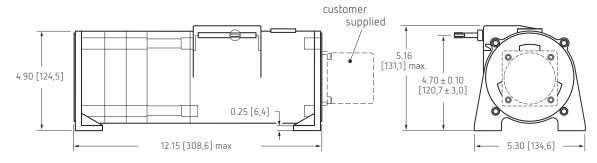
5.3" [135 mm]





#### Outline Drawing





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]

## Ordering Information

Model Number:



Sample Model Number:

PT9600 - 1500 - 111 - F01

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R 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

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 (± 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.	- Re
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.	209
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.	20150

#### **Enclosure Material**

A order code:	1	3	98
enclosure material:	powder-painted	303 stainless steel	5
max. acceleration:	aluminum 1g	1g	
max. velocity:	60 inches/sec.	60 inches/sec.	

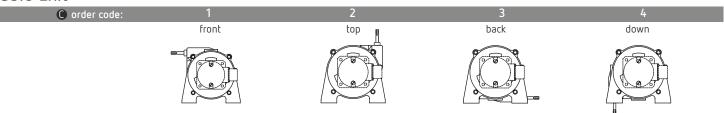


#### Ordering Information (cont.)

## Measuring Cable

B order code:	1			2			
cable construction:	nylon-coated stainless steel rope*		bare stainless steel rope*				
general use:	indoor	outdoor, debris, high temperature					
	stroke range: 0600	0800	1000	1200	1500		
*cable diameter: •	nylon-coated stainless: 1700						
	bare stainless: .034 in.	.019 in.	.019 in.	.019 in.	.014 in.	.014	

## Cable Exit

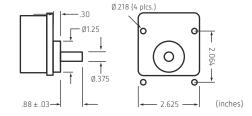


# **Rotational Sensor Mounting Style**

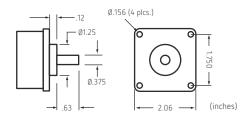
① order code: F01 F02 S01 S02 **S04** 2.5-in. Flange Mount Face-Mount 2-in. Flange Mount Face-Mount Face-Mount 6 mm shaft 3/8-inch shaft 3/8-inch shaft 10 mm shaft 10 mm shaft M4 mounting screws M4 mounting screws M3 mounting screws

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

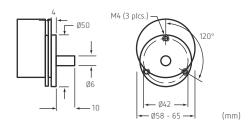
### F01 - 2½ -inch Sq. Flange Mount (3/8-inch shaft)



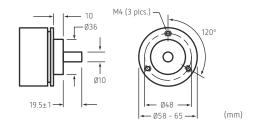
FO2 - 2-inch Sq. Flange Mount (3/8-inch shaft)



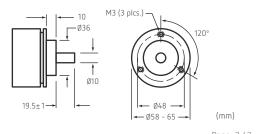
S01 - Face-Mount (6mm shaft/M4 screws)



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



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



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The information provided herein is to the best of our knowledge true and accurate, it is provided for guidance only. All specifications are subject to change without prior notification.