

PT9600

String Encoder

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

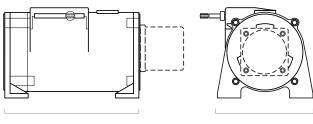
GENERAL

Full Stroke	Range Options	(on this datasheet)	0-75 to 0-550 in.		
Motion Cor	nversion Ratio	12.6 inches per turr	n, see ordering information		
Accuracy	the lessor of	±0.02% f.s. or ±0.049	% measurement ±1/2 pulse		
Accuracy, b	est	not le	ess than 0.001 in. (0.03mm)		
Repeatabili	ity	±0.02% c	of measurement ±1/2 pulse		
Measuring	Cable Options	see ordering information			
Module Ma	terial Options	powder-pair	nted aluminum or stainless		
Encoder Co	oupling	a	lluminum flexible coupling		
Maximum /	Allowable Rota	tional Sensor Torque	1.0 in-lbs		
Maximum I	Retraction Acce	eleration	see ordering information		
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)





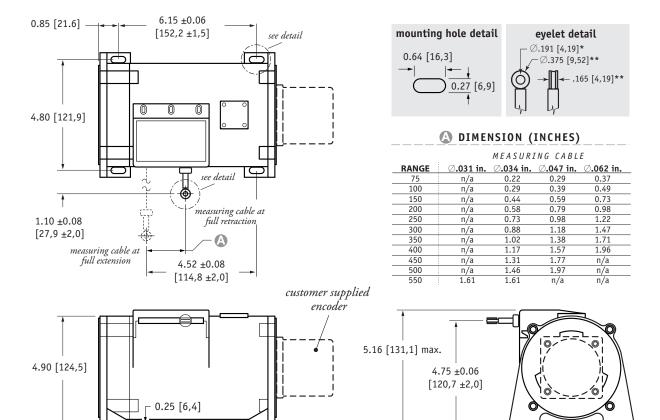
7.9" [200 mm] 5.3" [135 mm]

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.



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



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

7.87 [199,9] max.

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

5.30 [134,6]

Ordering Information:

Model Number:

PT9600-_____ -__ -__ -__ -__ -__ 0

Sample Model Number:

PT9600 - 0200 - 111 - F01

R range:
A enclosure / cable tension:

200 inches aluminum / 18 oz. .034 nylon-coated stainless

B measuring cable:
C cable exit:

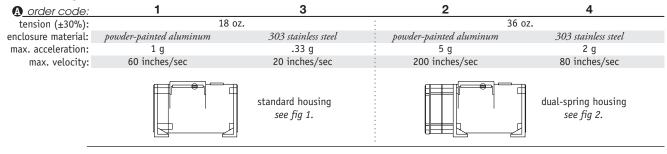
• cable exit: front
• rotational sensor mounting style: F01 (2.5-in. sq. flange)

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:

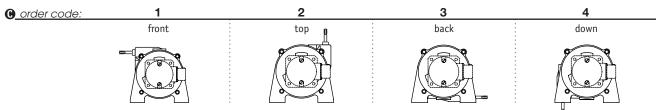


Ordering Information (cont.):

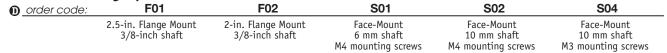
Measuring Cable/ Conversion Ratio:

B order o	code:	1	2	3	4
cable construction:		Ø.034-inch nylon-coated stainless steel rope	Ø.047-inch bare stainless steel rope	\varnothing .058-inch PVC jacketed vectra fiber rope	Ø.031-inch bare stainless steel rope
available r	anges:	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 enclosure:		$1 \text{ turn} = 12.673 \pm 0.010 \text{ in.}$	1 turn = 12.714 ± 0.010 in.	$1 \text{ turn} = 12.755 \pm 0.010 \text{ in.}$	$1 \text{ turn} = 12.664 \pm 0.010 \text{ in.}$
ratio (stainless end	closure:	$1 \text{ turn} = 12.579 \pm 0.016 \text{ in.}$	$1 \text{ turn} = 12.620 \pm 0.016 \text{ in.}$	$1 \text{ turn} = 12.661 \pm 0.016 \text{ in.}$	$1 \text{ turn} = 12.569 \pm 0.016 \text{ in.}$



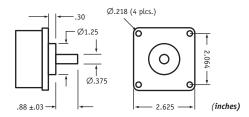


Rotational Sensor Mounting Style:

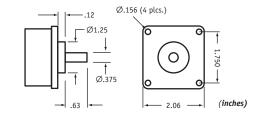


Note: If you don't see your encoder style, please contact factory. All encoder types supported.

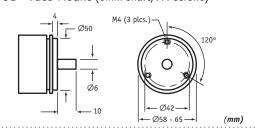
F01 - 21/2-inch Sq. Flange Mount (3/8-inch shaft)



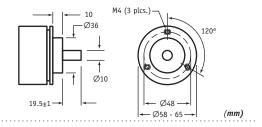
FO2 - 2-inch Sq. Flange Mount (3/8-inch shaft)



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



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



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

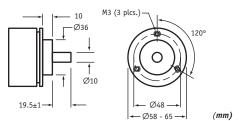
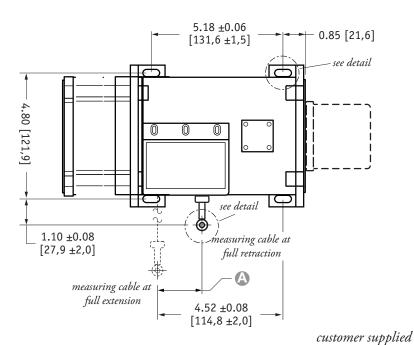
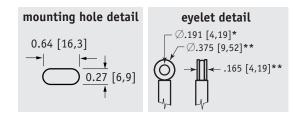


Fig. 2 – Outline Drawing (36 oz. cable tension only)

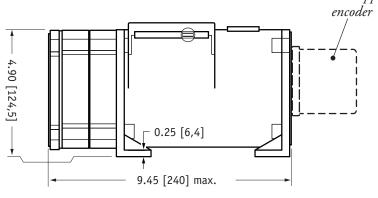


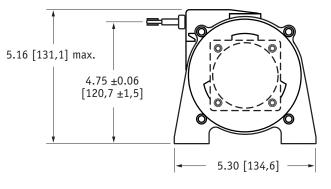


A DIMENSION (INCHES)

MEA	511	RT	NG	CA	BI	F

RANGE	Ø . 031 in.	\emptyset .034 in.	Ø .047 in.	\emptyset .062 in.
75	n/a	0.22	0.29	0.37
100	n/a	0.29	0.39	0.49
150	n/a	0.44	0.59	0.73
200	n/a	0.58	0.79	0.98
250	n/a	0.73	0.98	1.22
300	n/a	0.88	1.18	1.47
350	n/a	1.02	1.38	1.71
400	n/a	1.17	1.57	1.96
450	n/a	1.31	1.77	n/a
500	n/a	1.46	1.97	n/a
550	1.61	1.61	n/a	n/a





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

联系方式



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