

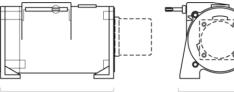
AUTHORIZED DISTRIBUTOR

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** 





<sup>5.3&</sup>quot; [135 mm]

# General

**Full Stroke Range Motion Conversion Ratio** Accuracy

7.9" [200 mm]

Accuracy, best Repeatability **Measuring Cable Options Module Material Options Encoder Coupling** Maximum Allowable Rotational Sensor Torque **Maximum Retraction** Acceleration Maximum Velocity Weight, Aluminum (Stainless Steel) Enclosure

# Environmental

**Operating Temperature** 

0-75 to 0-550 inches 12.6 inches per turn, see ordering information the lessor of  $\pm 0.02\%$  f.s. or  $\pm 0.04\%$ measurement ±1/2 pulse not less than 0.001 in. (0.03mm) ±0.02% of measurement ±1/2 pulse see ordering information powder-painted aluminum or stainless aluminum flexible coupling 1.0 in-lbs.

see ordering information

see ordering information 8 lbs. (16 lbs.) max.

-40° to 200°F (-40° to 90°C)

SENSOR SOLUTIONS /// PT9600 12//2015

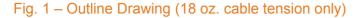


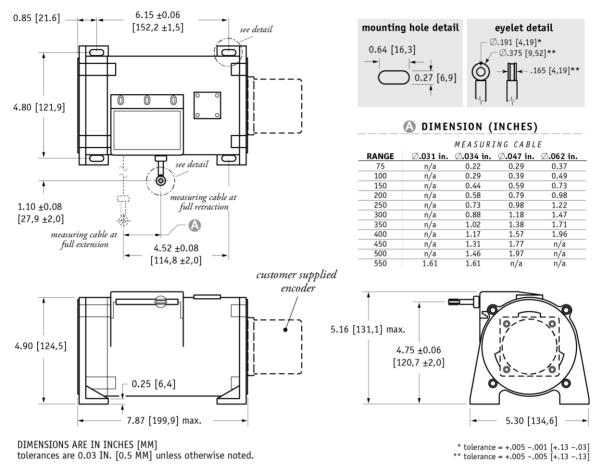
Germany/Austria/Switzerland Benelux info@althen.de

France

Sweden

Page 1





### 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.

1. using guide below, select PT9600 mode	el PT9600-0100-111-F01
2. remove "PT" from the model number	XT 9600-0100-111-F01
3. add "VLS"	/LS + 9600-0100-111-F01
4. completed model number!	VLS9600-0100-111-F01

VLS9600-	®	-			G	0
	0075		1	1	1	F01
	thru		2	2	2	F02
	0550		3	3	3	S01
			4	4	4	S02
						S04

#### = available options.

#### SENSOR SOLUTIONS /// PT9600 12//2015

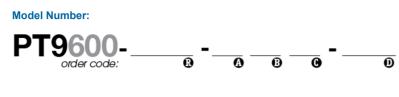


Germany/Austria/Switzerland Benelux info@althen.de

France

Sweden

# **Ordering Information**



Sample Model Number: PT9600 - 0200 - 111 - F01 R range: 200 inches enclosure / cable tension:
measuring cable: aluminum / 18 oz. .034 nylon-coated stainless Č cable exit: front **n** rotational 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

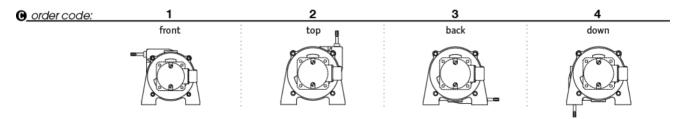
# Enclosure / Measuring Cable Tension:

A order code:	1	3	2	4
tension (±30%):	18 o	Ζ.	36 o	Ζ.
enclosure material:	powder-painted aluminum	303 stainless steel	powder-painted aluminum	303 stainless steel
max. acceleration:	1 g	1 g	5 g	5 g
max. velocity:	60 inches/sec	60 inches/sec	200 inches/sec	200 inches/sec
		standard housing see fig 1.		dual-spring housing see fig 2.

## Measuring Cable/ Conversion Ratio:

Order code:	1	2	3	4	
cable construction:	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 ranges:	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 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 ( <b>stainless</b> enclosure:	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:



SENSOR SOLUTIONS /// PT9600 12//2015



Germany/Austria/Switzerland Benelux info@althen.de

France

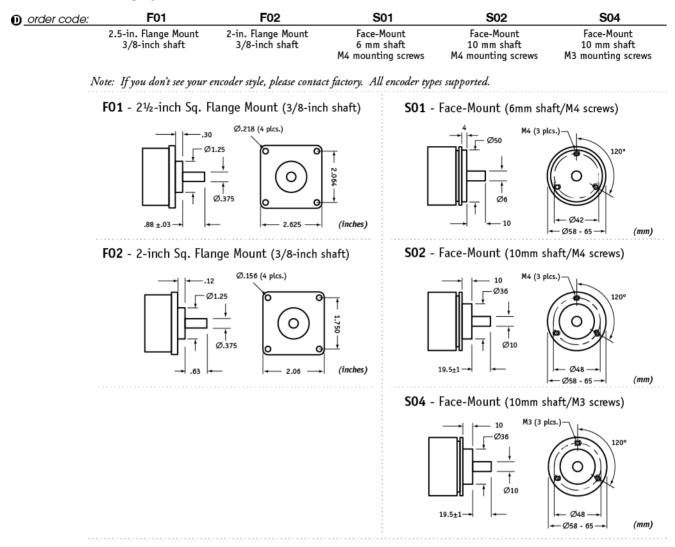
Sweden

sales@althen.nl info@althensensors.fr info@althensensors.se info@althensensors.com info@althensensors.com

USA/Canada

Page 3

## **Rotational Sensor Mounting Style:**



SENSOR SOLUTIONS /// PT9600 12//2015



Germany/Austria/Switzerland Benelux info@althen.de

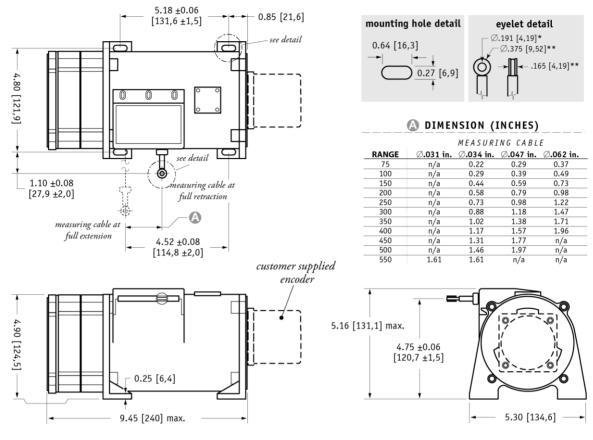
France

Sweden

USA/Canada sales@althen.nl info@althensensors.fr info@althensensors.se info@althensensors.com

Page 4

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



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]

SENSOR SOLUTIONS /// PT9600 12//2015



Sweden