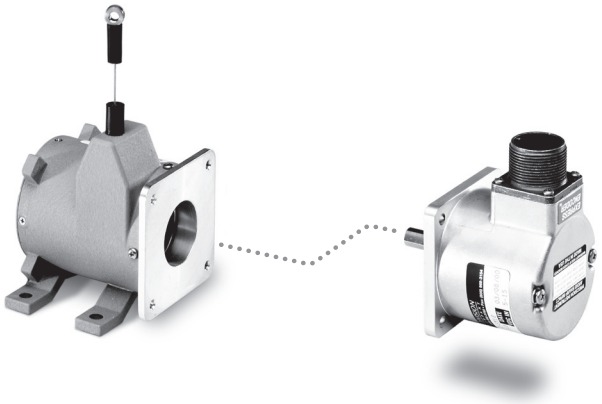
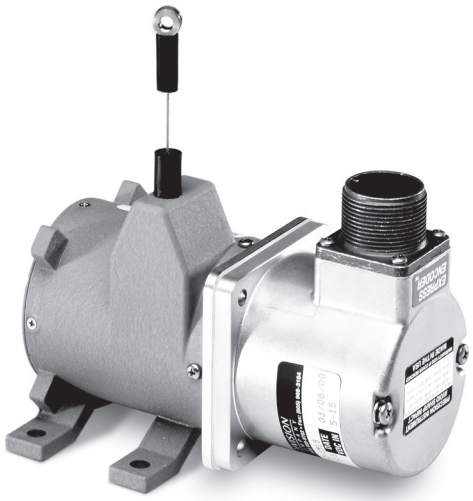
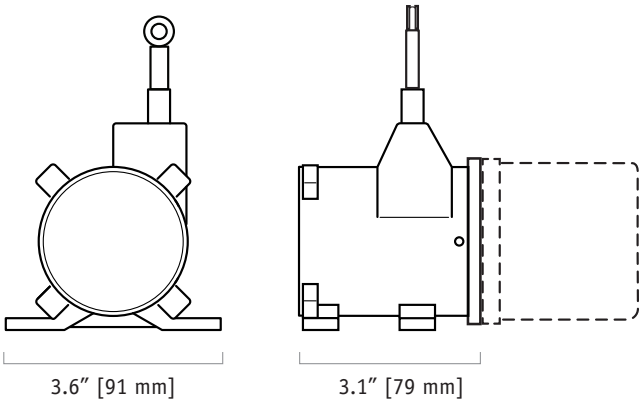
PT8600

String Encoder

Converts ANY Rotary Encoder to a Linear Position Sensor
Linear Stroke Range up to 50 inches (1250 mm)
Mates Virtually ANY Customer Supplied Encoder
Factory Supplied Encoder Available







FULL STROKE RANGE OPTIONS

English Ranges	0-25, 0-50 in.
Metric Ranges	0-625, 0-1250 mm

MOTION CONVERSION RATIO

English Ranges	5 inches per turn, see ordering information
Metric Ranges	125 mm per turn, see ordering information

GENERAL

Accuracy	±0.04% full stroke, contact factory for better accuracy
Measuring Cable Options	see ordering information
Module Material	powder-painted aluminum
Maximum Allowable Rotational Sensor Torque	1.0 in-lbs.
Weight	3 lbs. max.

ENVIRONMENTAL

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

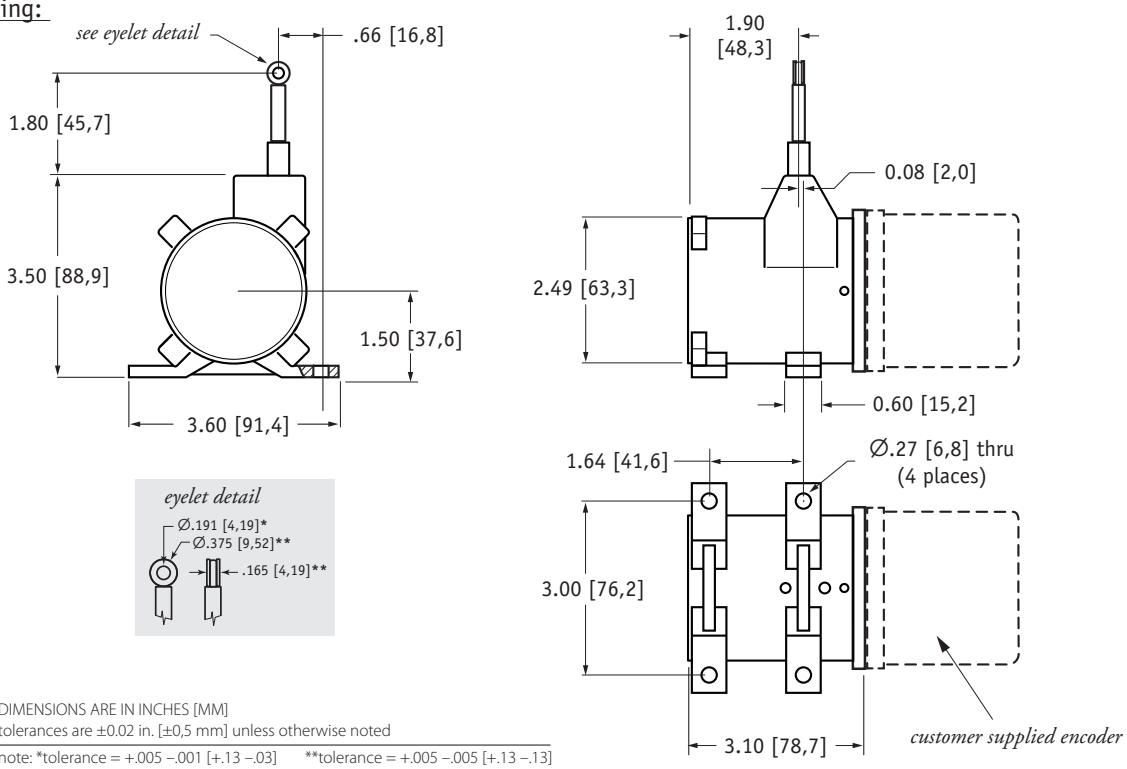
Our unique linear-to-rotational, industrial-grade string encoder module mates to virtually any encoder giving you a cost-effective linear position measurement solution that precisely fits your requirements. The PT8600 takes just minutes to install, fits easily into tight areas and does not require perfectly parallel alignment. To order, simply select the stroke range, the cable tension and the mounting style that matches your encoder.

If you want us to provide the encoder or you don't see the mounting style you need, please give us a call.

20630 Plummer Street • Chatsworth, CA 91311
tel: 800.423.5483 • +1.818.701.2750 • fax: +1.818.701.2799

celesco

Outline Drawing:



DIMENSIONS ARE IN INCHES [MM]
tolerances are ±0.02 in. [±0,5 mm] unless otherwise noted

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

Ordering Information:

Model Number:

PT8600 - ____ Ⓡ - ____ Ⓐ Ⓑ ____ Ⓒ 1 - ____ Ⓓ - ____ Ⓔ
order code:

Sample Model Number:

PT8600 - 0025 - 111 - BR - F01

Ⓡ	range:	25 inches
Ⓐ	measuring cable tension:	standard (12 oz.)
Ⓑ	measuring cable:	.034 nylon-coated stainless
Ⓓ	cable guide option:	cable brush
Ⓔ	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:

Ⓡ *order code:*	0025	0050	0625	1250
full stroke range, min:	25 in.	50 in.	625 mm	1250 mm

Measuring Cable Tension:

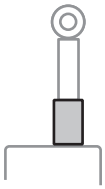
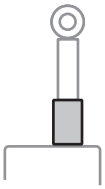
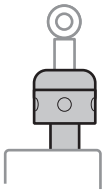
Ⓐ *order code:*	1	2
cable tension (±50%)	standard tension	high tension
25, 50-inch ranges:	17 oz. [5 g max. acceleration]	50 oz. [15 g max. acceleration]
625, 1250-mm ranges:	4,2 N [8 g max. acceleration]	13,9 N [30 g max. acceleration]

Measuring Cable:

Ⓑ *order code:*	1	2	4
cable construction:	Ø.034-inch nylon-coated stainless steel rope	Ø.047-inch bare stainless steel rope	Ø.031-inch bare stainless steel rope
available ranges:	*all ranges*	*25 inch & 625 mm only*	*50 inch & 1250 mm only*
general use:	indoor	outdoor, debris, high temperature	outdoor, debris, high temperature
conversion ratio { **english** ranges:	1 turn = 5.000 ± 0.0094 in.	1 turn = 5.034 ± 0.0094 in.	1 turn = 4.990 ± 0.0094 in.
conversion ratio { **metric** ranges:	1 turn = 125,001 ± 0,2394 mm	1 turn = 125,879 ± 0,2394 mm	1 turn = 124,762 ± 0,2394 mm

Ordering Information (cont.):

Cable Guide Options:

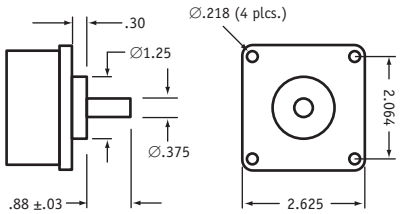
Ⓓ *order code:*	**blank**	**SS**	**BR**
	standard cable guide	stainless steel cable guide	integral cable brush
			

Rotational Sensor Mounting Style:

Ⓑ *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

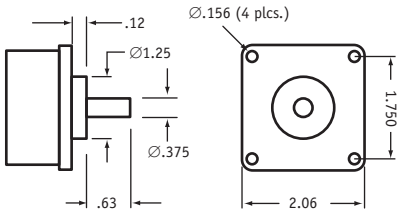
Note: If you don't see your encoder style, please contact factory. All encoder types supported.

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



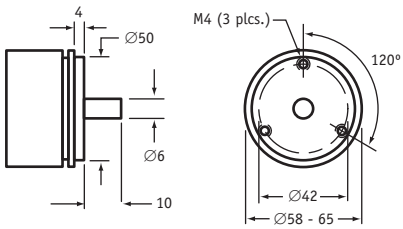
all dimensions are in ***inches***

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



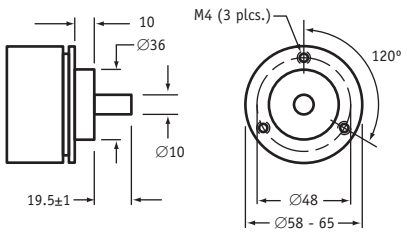
all dimensions are in ***inches***

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



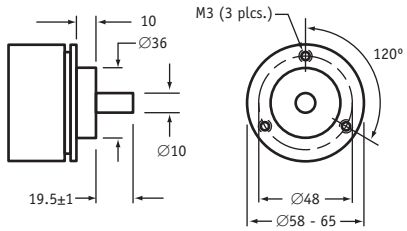
all dimensions are in ***mm***

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



all dimensions are in ***mm***

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



all dimensions are in ***mm***

version: **4.0** last updated: **June 2, 2014**