

Cable-Extension Position Transducer

Incremental Encoder Output
Ranges: 0-600 to 0-1700 inches
Industrial Grade

<Extended Range>

PT9150



Specification Summary:

GENERAL

Full Stroke Range Options—on this datasheet 0-600 to 0-1700 inches
 Output Signal incremental encoder (quadrature)
 Output Driver Options TTL/CMOS, open collector or line driver
 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 $\pm 0.02\%$ full stroke $\pm 1/2$ pulse max.
 Resolution Options 10 to 250 pulses per inch
 Measuring Cable stainless steel *see ordering information*
 Enclosure Material powder-painted aluminum or stainless steel
 Sensor optical incremental encoder
 Maximum Retraction Acceleration *see ordering information*
 Maximum Velocity *see ordering information*
 Weight, Aluminum (Stainless Steel) Enclosure 14 lbs. (28 lbs.) max.

ELECTRICAL

Input Voltage *see ordering information*
 Input Current *see ordering information*

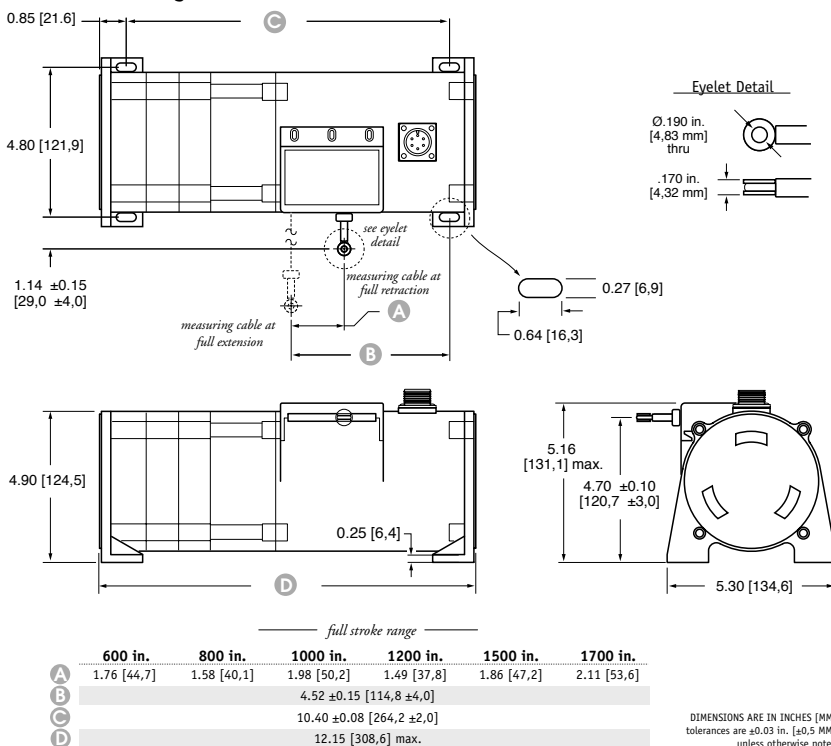
ENVIRONMENTAL

Enclosure NEMA 4/4X/6, IP 67/68
 Operating Temperature 0° to 160°F (-17° to 71°C)
 Vibration up to 10 G's to 2000 Hz maximum

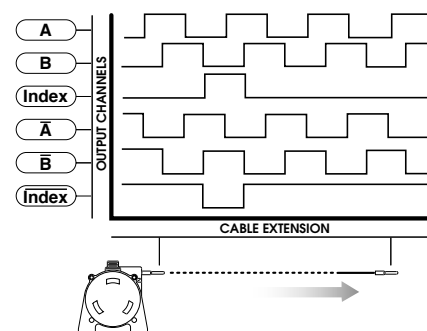
With its incremental optical encoder and industrial design this rugged transducer provides the highest accuracy and longest life of any measurement device of its kind. This model is available in a wide variety of resolutions and output stages to fit virtually any requirement.

It can measure up to 1700", yet when its cable is retracted it is only 6" long. Its small size and low-cost-to-measurement ratio offers remarkable flexibility and value.

Outline Drawing



Output Signal



Celeco Transducer Products, Inc.
 20630 Plummer Street • Chatsworth, CA 91311
 tel: 800.423.5483 • +1.818.701.2750 • fax: +1.818.701.2799

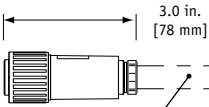
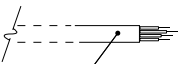
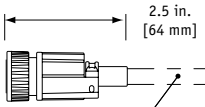
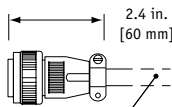
celeco
 celeco.com • info@celeco.com

Ordering Information:

Resolution:

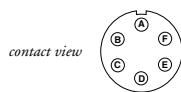
E order code:	1	2	3	4
english ranges:	100 ±2 pulses per in.	200 ±4 pulses per in.	250 ±5 pulses per in.	10 ±0.2 pulses per in.
metric ranges:	5 ±0,1 pulses per mm	10 ±0,2 pulses per mm	12,5 ±0,25 pulses per mm	0,5 ±0,01 pulses per mm

Electrical Connection:

F order code:	1	2	3	4
	6-pin plastic connector with mating plug IP 67, NEMA 4X*,6	25-ft. instrumentation cable 24 AWG, shielded IP 67, NEMA 6	18-pin plastic connector with mating plug IP 65, NEMA 4	6-pin metal connector with mating plug IP 67, NEMA 6
				
	.30 - .39 in. [8 - 10 mm] cable dia. 16 AWG max conductor size connector: MS3102E-14S-6P mating plug: MS3106E-14S-6S	25 ft. x 0.2-in. dia. [7,5 M x 5 mm dia.] 24 AWG, shielded	.26 - .30 in. [6,6 - 7,6 mm] cable dia. 20 - 24 AWG conductor size connector: Conxall 14282-18PG-300-K mating plug: Conxall 13282-18SG-326-K	3/8-in. [9 mm] max cable dia. 16 AWG max conductor size connector: MS3102E-14S-6P mating plug: MS3106E-14S-6S

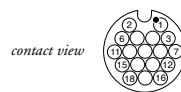
6-pin mating plug:

pin	TTL/CMOS Open Collector	5 V Line Driver Universal Line Driver
A	input voltage	input voltage
B	common	common
C	channel A	channel A
D	channel B	channel B
E	-	channel A'
F	-	channel B'



18-pin mating plug:

pin	TTL/CMOS Open Collector	5 V Line Driver Universal Line Driver
1	input voltage	input voltage
2	common	common
3	channel B	channel B
6	channel A	channel A
7	-	index
11	-	channel B'
12	-	channel A'
15	-	index'



25-ft. instrumentation cable:

color	TTL/CMOS Open Collector	5 V Line Driver Universal Line Driver
red	input voltage	input voltage
black	common	common
green	channel A	channel A
white	channel B	channel B
blue	-	channel A'
brown	-	channel B'
yellow	-	index
orange	-	index'

* -applies to stainless steel enclosure only.