

Cable-Extension Position Transducer

- ▼ Long Range
- ▼ Industrial Grade
- ▼ Incremental Encoder Output

EXTENDED RANGE

PT9150

Specification Summary:

GENERAL

Full Stroke Ranges—on this data sheet ... 0-600 to 0-1700 inches, see ① next page
 Output Signal incremental encoder (quadrature) signal
 Output Driver TTL/CMOS, open collector or line driver, see ⑥
 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 0.02% of measurement $\pm 1/2$ pulse max.
 Resolution 10 to 100 pulses per inch, see ⑦ and ⑧
 Measuring Cable stainless steel, nylon-coated or thermoplastic, see ②
 Enclosure Material powder-painted aluminum or stainless steel, see ③
 Sensor optical encoder
 Maximum Retraction Acceleration see ⑤
 Maximum Velocity see ④
 Weight, Aluminum (Stainless Steel) Enclosure 14 lbs. (28 lbs.), max.

ENVIRONMENTAL

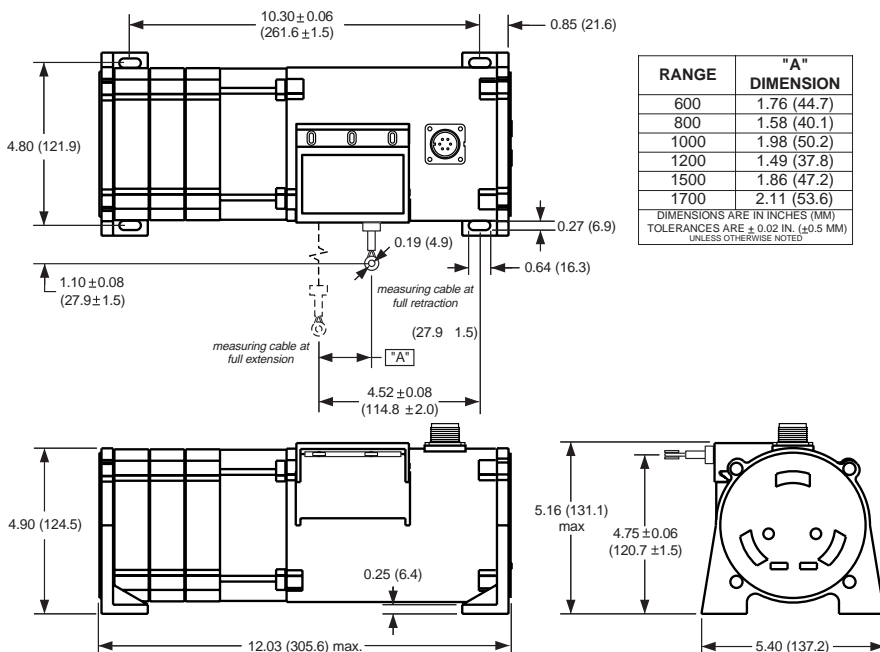
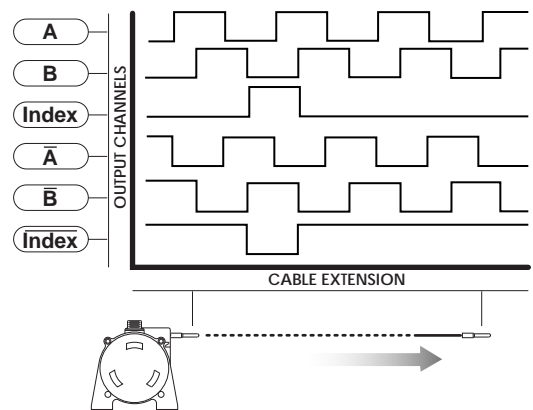
Enclosure Design NEMA 4/4X/6, IP 65/67/68, see ⑨ and ⑩
 Operating Temperature 0° to 160°F
 Vibration up to 10 G's to 2000 Hz maximum



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.

Electrical Output Signal:



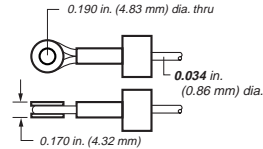
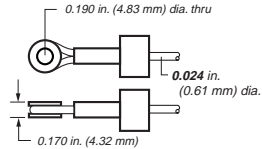
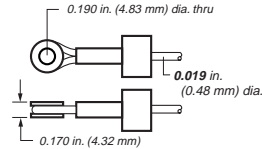
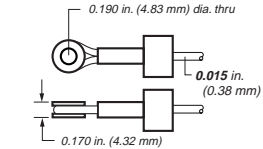
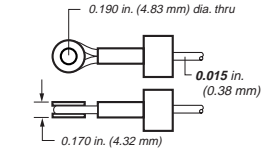
PT9150 • Extended Range • Cable-Extension Transducer • Incremental Encoder Output

▼ Ordering Information

Model Number:

PT9150- _____ **1** _____ **0**
order code: **R** **A** **B** **C** **D** **E** **F** **G**

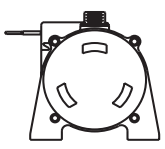
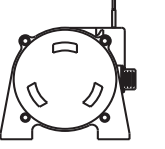
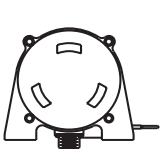
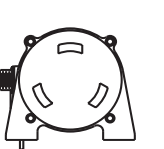
Full Stroke Range:

R order code:	0600	0800	1000	1200	1500	1700
① full stroke english range, min:	600 inches	800 inches	1000 inches	1200 inches	1500 inches	1700 inches
R order code:	15000	20000	25000	30000	35000	40000
full stroke metric range, min:	15,000 mm	20,000 mm	25,000 mm	30,000 mm	35,000 mm	40,000 mm
② cable tension (±30%):	25 oz.	25 oz.	24 oz.	24 oz.	23 oz.	23 oz.
cable construction:	nylon-coated stainless steel				stainless steel	
						

Enclosure Material:

A order code:	1	3
③ enclosure material:	powder-painted aluminum	303 stainless steel
④ maximum velocity:	60 inches per second	20 inches per second
⑤ max. retraction acceleration:	1 G	0.33 G

Cable Exit:

G order code:	1	2	3	4
direction:	front	top	rear	bottom
				

Output Signals:

D order code:	1	2	3	4
⑥ output driver:	TTL - CMOS	Open Collector	5 V - Line Driver	Universal Line Driver
	Input voltage (V+): 4.5...13.2 Vdc Sink current: 20 mA max. Input current: 80 mA max.	Input voltage (V+): 10.8...26.4 Vdc Sink current: 20 mA max. Input current: 80 mA max.	Input voltage (V+): 5 Vdc Sink current: 20 mA max. Input current: 150 mA max.	Input voltage (V+): 5...30 VDC Source/Sink: 20 mA max. Input current: 100 mA max, no load
	