



mm PT8150

#### Description

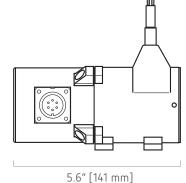
- Linear Position to 60 inches 1250mm (metric range)
- Aluminum or Stainless Steel Enclosure Options
- VLS Option To Prevent Free-Release Damage
- IP67 NEMA 6 Protection

• IFO7 • NEMA & Flotection 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. For measurements up to 60 inches, this model is available in a variety of resolutions and output stages to fit virtually any requirement. The PT8150 offers numerous advantages over other industrialgrade sensors: It installs in minutes by mounting its body to a fixed surface and attaching it's cable to the movable object, fits into areas unsuited for rod-type measurement devices, and works without perfect parallel alignment.

#### GENERAL

Full Stroke Range Op	otions 0-30, 0-6	0 inches, 0-625, 0-1250 mm
Output Signal	incre	mental encoder (quadrature)
Accuracy	0.04% full stroke (contac	t factory for higher accuracy)
Repeatability		± 0.02% full stroke
Resolution Options		20 to 500 pulses per inch
Measuring Cable Op	tions sta	ainless steel or thermoplastic
Enclosure Material	powder-painted	d aluminum or stainless steel
Sensor		optical encoder
Maximum Retraction	n Acceleration	see ordering information
Weight, Aluminum (S	Stainless Steel) Enclosure	2 Ibs. (6 Ibs.) max.

3.6" [91 mm]

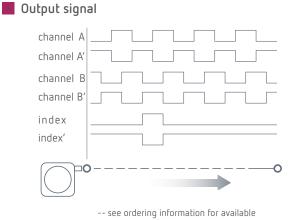


#### ELECTRICAL

Input Voltage	see ordering information
Input Current	see ordering information
Output Driver Options	see ordering information

#### ENVIRONMENTAL

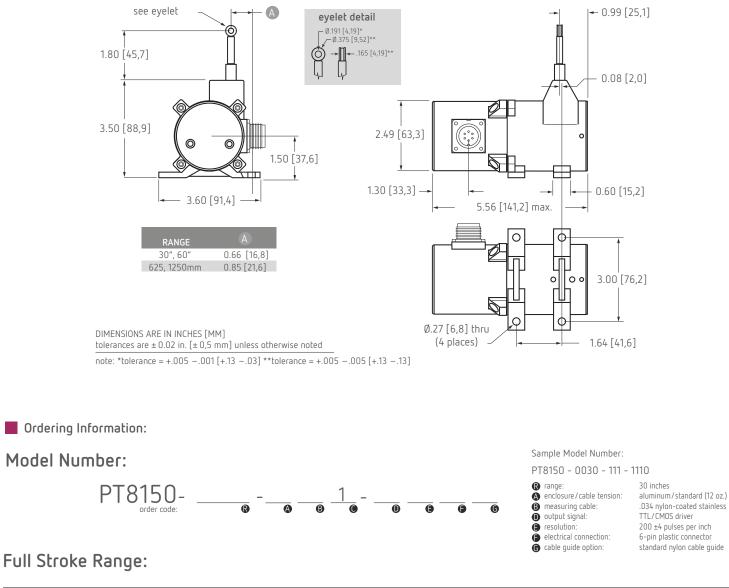
Enclosure	NEMA 4/4X/6, IP 67
Operating Temperature	0° to 160°F (-17° to 71°C)
Vibration	up to 10g to 2000 Hz maximum







Outline Drawing:



R order code:	0030	0060	0625	1250
full stroke range, min:	30 in.	60 in.	625 mm	1250 mm

# Enclosure Material and Measuring Cable Tension:

A order code:	1	5	2	3	6	L	, +	8	7	9
enclosure:		aluminum			303 s	tainless			316 stainless	5
cable tension:	standard me	edium	high star	ndard medium	h	igh standard	d medium hig	h 15 g	25 g	40 g
max. acceleration:		6 g	12 g	18 g	6	g	12 g	18 g		
						Range:	30 in.	60 in.	625 mm	1250 mm
					C	Standard:	16 oz.	16 oz.	4,5 N	4,5 N
	cable tension option specifications				Medium:	26 oz.	26 oz.	7,2 N	7,2 N	
		(tension tolerance: ± 50%)		U	High:	47 oz.	47 oz.	13,1 N	13,1 N	

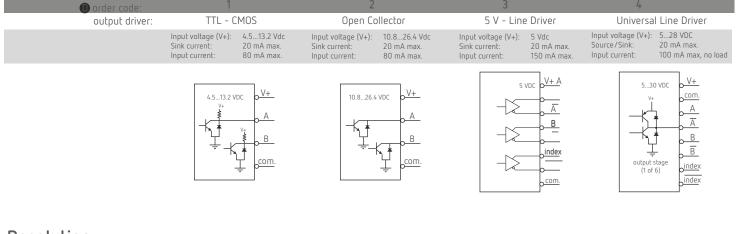


Ordering Information (cont.):

## Measuring Cable:

B 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	30 inch & 625 mm only	30 inch & 625 mm only	60 inch & 1250 mm only
general	indoor	outdoor, debris, high temperature	high voltage or magnetic field	outdoor, debris, high temperature

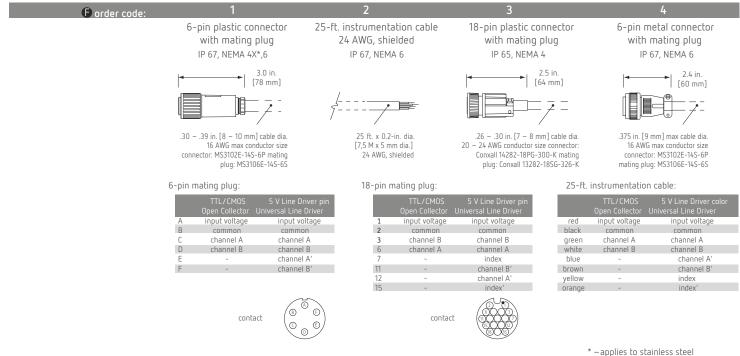
### **Output Signals:**



### **Resolution:**

🕒 order code:	1	2	3	4
english ranges:	200 ±4 pulses per in.	400 ±8 pulses per in.	500 ±10 pulses per in.	20 ±0.4 pulses per in.
metric ranges:	10 ±0,2 pulses per mm	20 ±0,4 pulses per mm	25 ±0,5 pulses per mm	1 ±0,02 pulses per mm

### Electrical Connection:

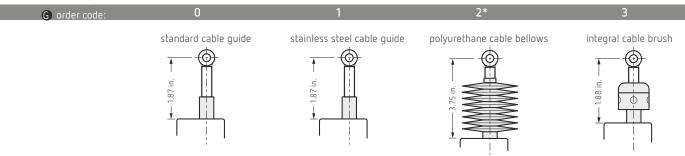


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### Cable Guide Options:



\*important! – bellows limits measuring cable travel to 25 inches, contact factory

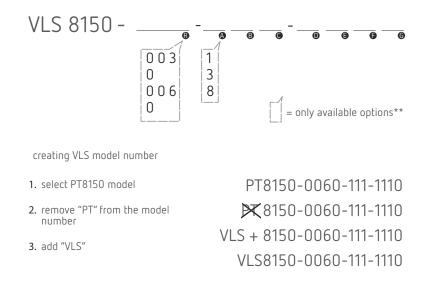
# VLS Option - Free Release Protection

The patented Velocity Limiting System (VLS) is an option for PT8000 Series cable extension transducers that limits cable retraction to a safe 40 to 55 inches per second.

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.

VLS is NOT available for medium and high cable tension options or 2, 5 and 15-inch stroke ranges.

How To Configure Model Number for VLS



\*\*Note: please contact factory for a solution to options not supported.

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