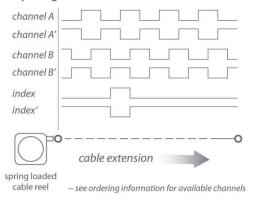


With its incremental optical encoder and industrial design, this rugged transducer provides the highest accuracy and longest life of any measurement device of its kind. For measurements up to 60 inches, this model is available in a variety of resolutions and output stages to fit virtually any requirement.

The PT8150 offers numerous advantages over other industrial-grade sensors: It installs in minutes by mounting its body to a fixed surface and attaching its cable to the movable object, fits into areas unsuited for rod-type measurement devices, and works without perfect parallel alignment.

#### **Output Signal**



# PT8150

# Cable Actuated Sensor Heavy Industrial • Incremental Encoder

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** 

#### General

Full Stroke Ranges 0-30, 0-60 inches, 0-625, 0-1250 mm

Output Signal incremental encoder (quadrature)

Accuracy $\pm$  0.04% full strokeRepeatability $\pm$  0.02% full strokeResolution20 to 500 pulses per inchMeasuring Cablestainless steel or thermoplastic

Enclosure Material powder-painted aluminum or stainless steel

Sensor optical encoder

Maximum Retraction see ordering information

Acceleration

Weight, Aluminum 3 II

(Stainless Steel) Enclosure 3 lbs. (6 lbs.), max.

## Electrical

 Input Voltage
 see ordering information

 Input Current
 see ordering information

 Output Driver Options
 see ordering information

### Environmental

Enclosure NEMA 4X/6, IP 67

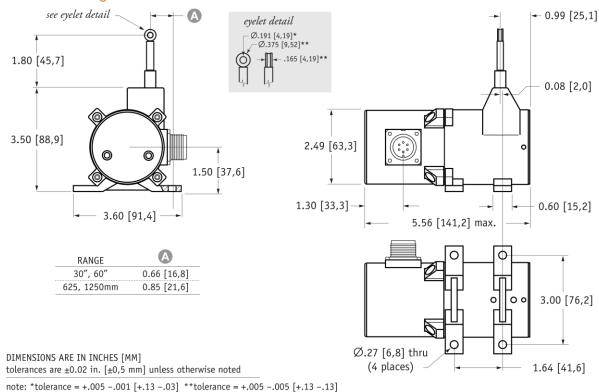
Operating 0° to 160°F (-17° to 71°C)

Temperature

Vibration up to 10g to 2000 Hz maximum

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### **Outline Drawing**



## **Ordering Information**

#### **Model Number:**



Sample Model Number:

## PT8150 - 0030 - 111 - 1110

R range:
A enclosure/cable tension:

 measuring cable: output signal:

resolution:

electrical connection: G cable guide option:

aluminum/standard (12 oz.) .034 nylon-coated stainless TTL/CMOS driver

30 inches

200 ±4 pulses per inch 6-pin plastic connector standard nylon cable guide

#### **Full Stroke Range:**

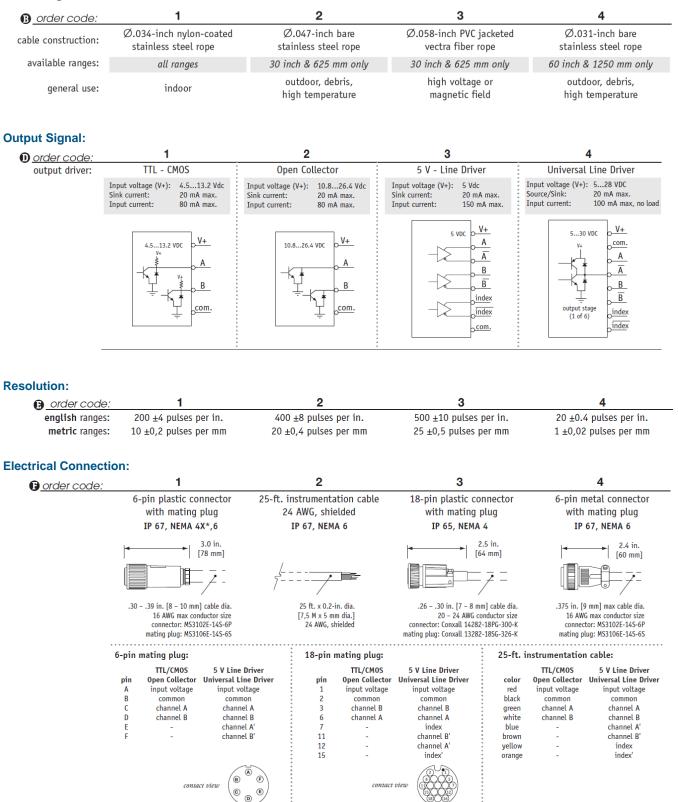
<b>®</b> order code:	0030	0060	0625	1250	
full stroke range, min:	30 in.	60 in.	625 mm	1250 mm	

#### **Enclosure Material and Measuring Cable Tension:**

A <u>order code:</u>	1	<sup>-</sup> 5	2		3	6	4		8	7	9
enclosure:		aluminum		-		303 stainless		1		316 stainless	
cable tension:	standard	medium	high		standard	medium	high		standard	medium	high
max. acceleration:	15 g	25 g	40 g		6 g	12 g	18 g	İ	6 g	12 g	18 g

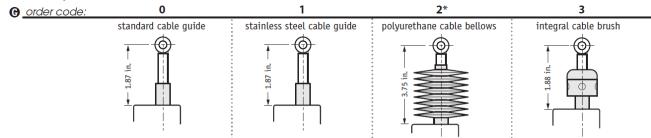
30 in. 60 in. Range: 625 mm 1250 mm Standard: 16 oz. 16 oz. 4,5 N 4,5 N cable tension option specifications Medium: 26 oz. 26 oz. 7,2 N 7,2 N (tension tolerance: ±50%) High: 47 oz. 47 oz. 13,1 N 13,1 N

#### **Measuring Cable:**



\* –applies to stainless steel enclosure only.

#### **Cable Guide Options:**



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

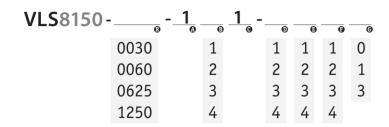
# VLS Option - Free Release Protection

The patented Celesco 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, stainless steel enclosure, cable bellows or 2, 5 and 15-inch stroke ranges.

#### **How to Configure Model Number for VLS Option:**



= available options\*\*

creating VLS model number (example):

1. select PT8150 model PT8150-0060-111-1110

3. add "VLS" VLS + 8150-0060-111-1110

4. completed model number ! VLS8150-0060-111-1110

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

### **NORTH AMERICA**

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