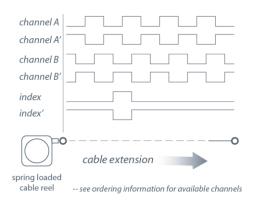




With its incremental optical encoder and industrial design this rugged transducer provides the highest accuracy and longest life of any measurement device of its kind. This model is available in a wide variety of resolutions and output stages to fit virtually any requirement.

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.

Output Signal



PT9150 (Extended Range)

Cable Actuated Sensor

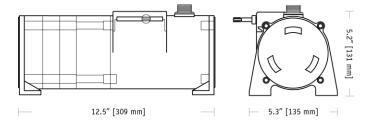
Extended Ranges • Incremental Encoder

Linear Position to 1700 inches (4300 cm)

Stroke Range Options: 0-600 to 0-1700 inches

VLS Option to Prevent Free-Release Damage

IP67 • NEMA 6 Protection



General

Full Stroke Range 0-600 to 0-1700 inches

Output Signal incremental encoder (quadrature)

Output Driver Options TTL/CMOS, open collector or line driver

Accuracy 0.04% full stroke

Repeatability ± 0.02% full stroke

Resolution 10 to 250 pulses per inch

Measuring Cable nylon-coated stainless steel

Enclosure Material powder-painted aluminum or stainless steel

Sensor optical incremental encoder

Maximum Retraction see ordering information

Acceleration

Maximum Velocitysee ordering informationWeight, Aluminum (Stainless14 lbs. (28 lbs.), max.

Steel) Enclosure

Electrical

Input Voltagesee ordering informationInput Currentsee ordering information

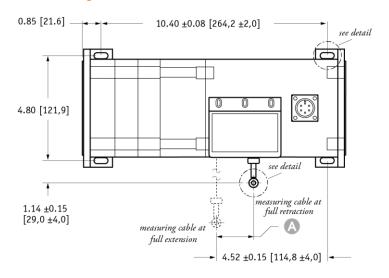
Environmental

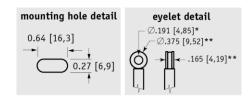
Enclosure NEMA 4/4X/6, IP 67

Operating Temperature 0° to 160°F (-17° to 71°C)

Vibration up to 10 g to 2000 Hz maximum

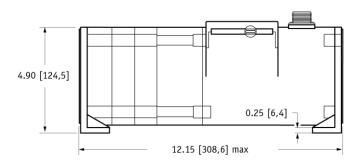
Outline Drawing

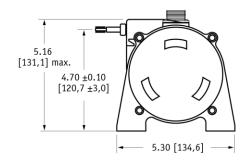




A DIMENSION

RANGE	inches [mm]
600	1.76 [44,7]
800	1.58 [40,1]
1000	1.98 [50,2]
1200	1.98 [50,2]
1500	1.86 [47,2]
1700	2.11 [53,6]





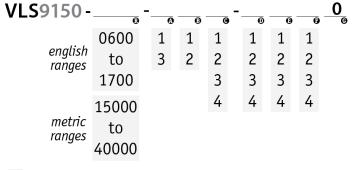
DIMENSIONS ARE IN INCHES [MM] tolerances are 0.03 IN. [0.5 MM] unless otherwise noted.

VLS Option - Free Release Protection

The patented Celesco Velocity Limiting System (VLS) is an option for PT9000 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.

using guide below, select PT9150 model PT9150-1200-111-1110
 remove "PT" from the model number PT 9150-1200-111-1110
 add "VLS" VLS + 9150-1200-111-1110
 completed model number! VLS9150-1200-111-1110



= available options.

^{*} tolerance = +.005 -.001 [+.13 -.03] ** tolerance = +.005 -.005 [+.13 -.13]

Ordering Information

Model Number:



Sample Model Number:

PT9150 - 0800 - 111 - 1110

R range:

A enclosure:
B measuring cable:

500 inches aluminum nylon-coated stainless

• cable exit:

front

output signal:
resolution:
electrical connection:

TTL/CMOS driver

100 ±2 pulses per inch 6-pin plastic connector

Full Stroke Range:

® order code:	0600	0800	1000		1200		1500		1700
english ∫ full stroke range, min:	600 in.	800 in.	1000 in.		1200 in.		1500 in.		1700 in.
ranges \ cable tension (±35%):	27 oz.	24 oz.	20 oz.		19 oz.		18 oz.		17 oz.
® order code:	15000	20000	25000		30000		35000		40000
metric ∫ full stroke range, min:	15.000 mm	20.000 mm	25.000 mm		30.000 mm		35.000 mm		40.000 mm
ranges \ cable tension (±35%):	7,5 N	6,7 N	5,6 N	- 1	5,3 N	- 1	5,0 N	- 1	4,7 N

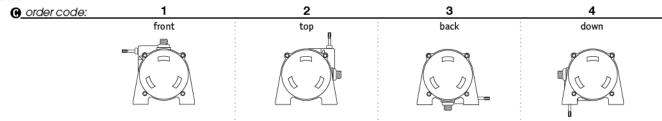
Enclosure Material:

♠ order code:	1	3
enclosure material:	powder-painted aluminum	303 stainless steel
max. acceleration:	1g	1g
max. velocity:	60 inches/sec.	60 inches/sec.

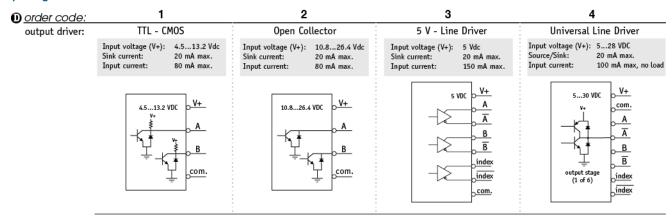
Measuring Cable:

B order code:	1			2						
cable construction:	nylon-coated stainless stee	nylon-coated stainless steel rope*			bare stainless steel rope*					
general use:	indoor	outdoor, debris, high temperature								
	stroke range:	0600	0800	1000	1200	1500	1700			
*cable diamete	r: < nylon-coated stainless:	.034 in.	.019 in.	.019 in.	.019 in.	.014 in.	.014 in.			
	bare stainless:	.031 in.	.018 in.	.018 in.	.018 in.	.015 in.	.015 in.			

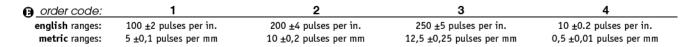
Cable Exit:



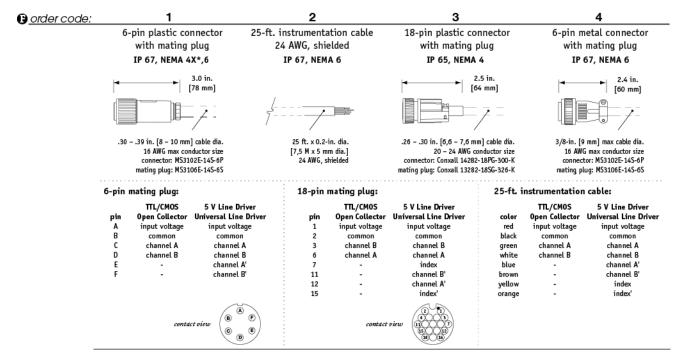
Output Signals:



Resolution:



Electrical Connection:



^{* -}applies to stainless steel enclosure only.



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PT9150 Extended Range 12/01/2015