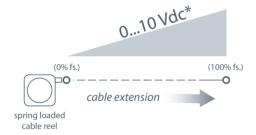




The PT5DC cable-extension transducer uses a unique thermoplastic cable that has virtually an infinite fatigue life. This cable, known as V62, has properties that are superior for high cycle and rugged applications.

Like our other transducers, the PT5DC installs in minutes, functions properly without perfectly parallel alignment, and fits easily into small areas. The PT5DC offers additional installation flexibility since its cable exit can be rotated relative to the mounting surface, providing four different cable exit orientations.

Output Signal



*Also Available: 0...5, -5...+5, -10...+10 Vdc

PT5DC

Cable Actuated Sensor Industrial Grade • 0...5. 0...10 Vdc

Absolute Linear Position to 250 inches (6350 mm)

Hard Anodized Aluminum Enclosure

High Cycle Applications

IP67 • NEMA 6 Protection

General

Full Stroke Range

Options

0-10 to 0-250 inches

Output Signal Options

0...5, 0...10, -5...+5, -10...+10 VDC

Accuracy Repeatability \pm 0.75% to \pm 0.18% full stroke (see ordering information) ±0.02% to ±0.1% full stroke (see ordering information)

Resolution

essentially infinite

Measuring Cable

stainless steel or thermoplastic

Enclosure

hard anodized aluminum

Sensor

plastic-hybrid precision potentiometer

Potentiometer Cycle

see ordering information

Maximum Measuring

see ordering information

Cable Velocity

Maximum Retraction

see ordering information

Acceleration

Weight 5 lbs. max.

Electrical

14.5-40 VDC (10.5-40 VDC for 0...5 and -5...+5 volt output) Input

Input Current 10 mA maximum **Output Impedance** 1000 ohms **Maximum Load** 5000 ohms

Zero and Span Adjustment

see ordering information

Environmental

Enclosure NEMA 4/6. IP 65/67 Operating Temperature -40° to 200°F (-40° to 90°C)

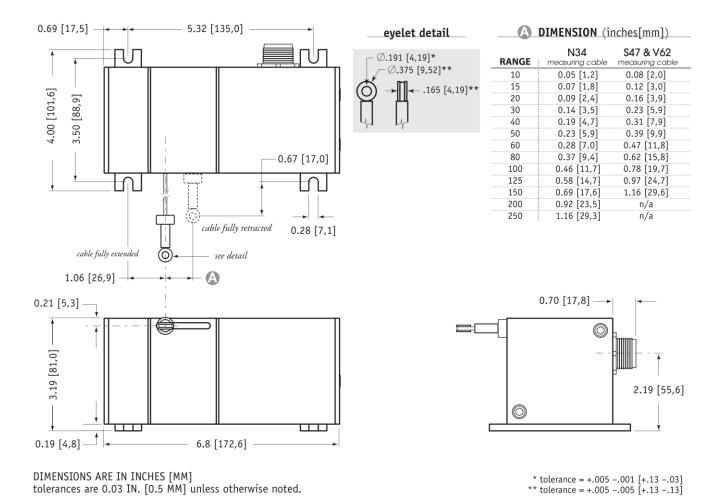
Vibration up to 10 g to 2000 Hz maximum

EMC COMPLIENCE PER DIRECTIVE 89/336/EEC

Emission/Immunity EN50081-2 / EN50082-2

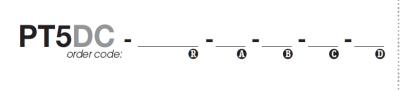
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Outline Drawing



Ordering Information

Model Number:



Sample Model Number:

PT5DC - 100 - N34 - FR - Z10 - M6

100 inches R range:

Measuring cable: .034 nylon-coated stainless cable exit: front

G output signal: 0...10 vdc

n electrical connection:

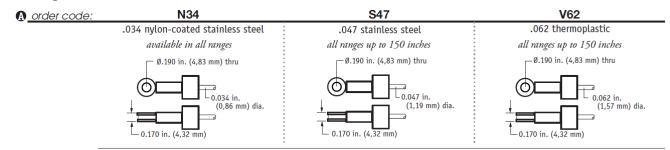
6-pin plastic connector

Full Stroke Range:

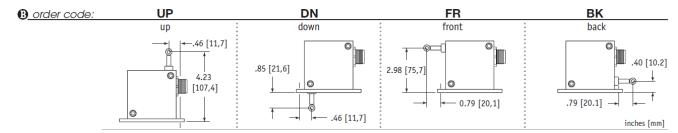
max.

® order code:	10	15	20	25	30	40	50	60	80	100	125	150	200	250	
full stroke range, min:	10 in.	15 in.	20 in.	25 in.	30 in.	40 in.	50 in.	60 in.	80 in.	100 in.	125 in.	150 in.	200 in.	250 in.	
accuracy (±% of f.s.):	.75%	.6%	.5%	.5%	.5%	.3%	.3%	.25%	.25%	.25%	.25%	.18%	.18%	.18%	
repeatability (±% of f.s.):	.1%	.1%	.05%	.05%	.05%	.05%	.05%	.02%	.02%	.02%	.02%	.02%	.02%	.02%	
potentiometer cycle life:	2,500,000 cycles						500,000 cycles					250,000 cycles			
cable tension (20%):	41 ounces											21 ounces			
k. cable velocity/acceleration:	300 in./sec • 5 g												120 in./sec • 2 g		

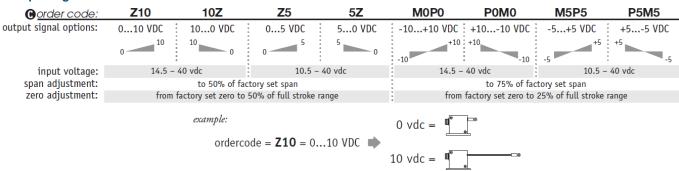
Measuring Cable:



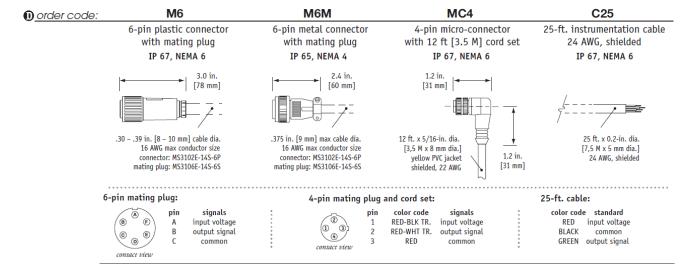
Cable Exit:



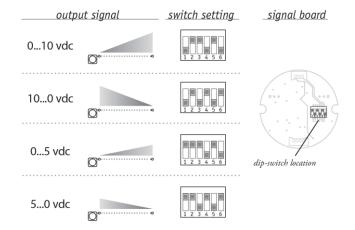
Output Signals:



Electrical Connection:

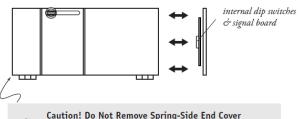


Output Signal Selection (does not apply to -5 to +5 & -10 to +10 Vdc options)



The output signal direction can be reversed at any time by simply changing the dip-switch settings found on the internal signal board. After the settings have been changed, adjustment of the Zero and Span trimpots will be required to precisely match signal values to the beginning and end points of the stroke.

To gain access to the signal board, remove four Allen-Head Screws and remove end cover bracket.



Caution! Do Not Remove Spring-Side End Cover

Removing spring-side end cover could cause spring
to become unseated and permanently damaged.

SENSOR SOLUTIONS /// PT5DC

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PT5DC

Industrial Grade • 0...5, 0...10 Vdc

SENSOR SOLUTIONS /// PT5DC

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