0...5, 0...10, -5...+5, -10...+10 VDC Output Options Ranges: 0-10 to 0-250 inches

Industrial Grade • High Cycle Applications

 ϵ

Specification Summary:

GENERAL
Full Stroke Range Options
Output Signal Options
Accuracy \pm 0.75% to \pm 0.18% full stroke see ordering information
Repeatability see ordering information
Resolution essentially infinite
Measuring Cable Options stainless steel or thermoplastic
Enclosure Material
Sensor plastic-hybrid precision potentiometer
Potentiometer Cycle Lifesee ordering information
Maximum Measuring Cable Velocity see ordering information
Maximum Retraction Acceleration see ordering information
Weight

ELECTRICAL

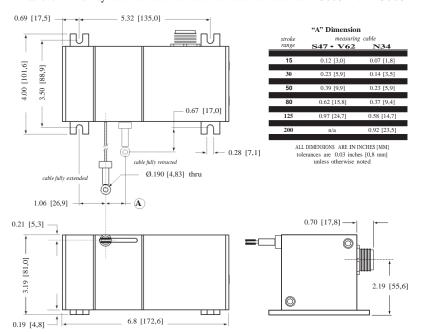
Input	. 14.5-40 VDC (10.5-40 VDC for 05 and -5+5 volt output)
Input Current	10 mA maximum
Output Impedence	
Maximum Load	
Zero and Span Adjustme	ntsee ordering information

ENVIRONMENTAL

Enclosure	NEMA 4/6, IP 65/6	57
Operating Temperature	\dots -40° to 200°F (-40° to 90	°C)
Vibration u	up to 10 G's to 2000 Hz maximu	m

EMC COMPLIENCE PER DIRECTIVE 89/336/EEC

Emission/Immunity	 EN50081-2 / EN50082-2



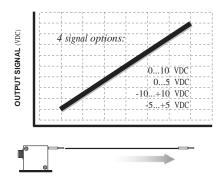
PT5DC



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 Celesco's 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



Ordering Information:

Model Number:

Sample Model Number:

PT5DC - 100 - N34 - FR - Z10 - M6

R range: measuring cable: 100 inches

B cable exit:

.034 nylon-coated stainles front

Output signal:

0...10 vdc

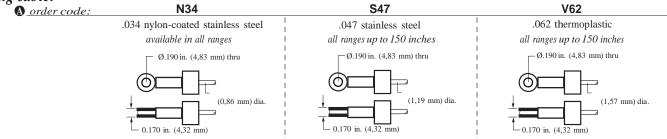
electrical connection:

6-pin plastic connector

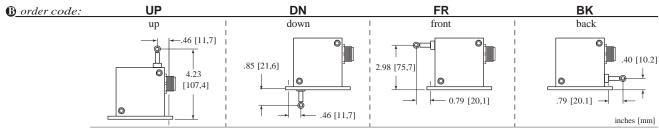
Full Stroke Range:

🔞 <u>order code:</u>	10	15	20	25	30	40	50	60	80	100	125	150	200	250
full stroke range, min:		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 (\pm % 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 o	unces				
max. cable velocity/acceleration:	300 in./sec • 5 G's									120 in./se	ec • 2 G's			

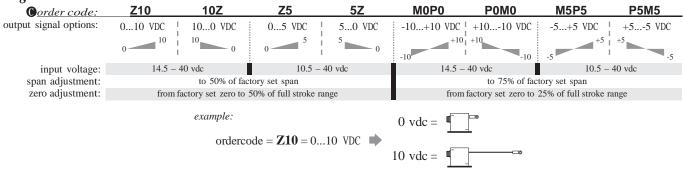
Measuring Cable:



Cable Exit:

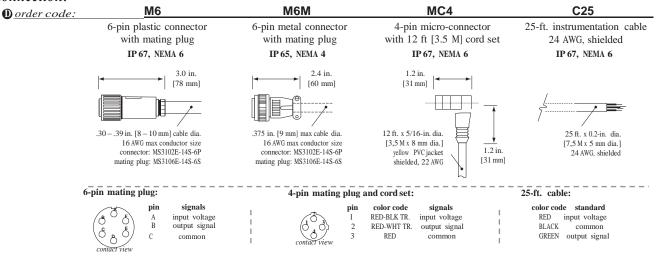


Output Signals:

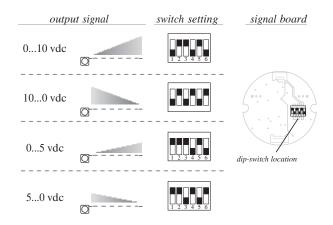


Ordering Information (cont.)

Electrical Connection:



Output Signal Selection (does not apply to -5...+5 & -10...+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.

