0...5, 0...10, -5...+5, -10...+10 VDC Output Options Ranges: 0-10 to 0-250 inches **Industrial Grade • High Cycle Applications**

CE

Specification Summary:

Full Stroke Range Options	0-10 to 0-250 inches
Output Signal Options	05, 010, -5+5, -10+10 VDC
Accuracy ± 0.75% to	±0.18% full stroke <i>see ordering information</i>
Repeatability	see ordering information
Resolution	essentially infinite
Measuring Cable Options	stainless steel or thermoplastic
Enclosure Material	hard anodized aluminum
Sensor	. plastic-hybrid precision potentiometer
Potentiometer Cycle Life	see ordering information
Maximum Measuring Cable Velocity	see ordering information
Maximum Retraction Acceleration	
Weight	5 lbs. max.

ELECTRICAL

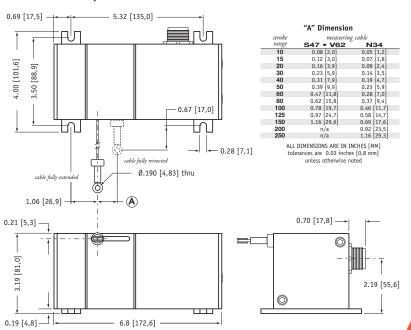
Input	. 14.5-40 VDC (10.5-40 VDC for 05 and -5+5 volt output)
Input Current	10 mA maximum
Output Impedence	1000 ohms
Maximum Load	5000 ohms
Zero and Span Adjustme	ntsee ordering information

ENVIRONMENTAL

Enclosure	NEMA 4/6, IP 65/67
Operating Temperature	-40° to 200°F (-40° to 90°C)
Vibrationup to	10 G's to 2000 Hz maximum

EMC COMPLIENCE PER DIRECTIVE 89/336/EEC

Emission/Immunity	FN50081-2	FNI50082-2



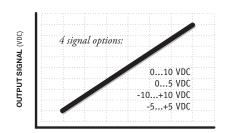
PT5DC



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 orienta-

Output Signal





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PT5DC • Cable-Extension Transducer: 0...10 • −10...+10 VDC Output Signal Options

Ordering Information:

Model Number:

Sample Model Number:

PT5DC - 100 - N34 - FR - Z10 - M6

- **A** measuring cable:

100 inches .034 nylon-coated stainles:

- front
- B cable exit: • output signal:

0...10 vdc

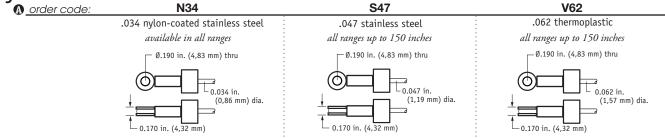
• electrical connection:

6-pin plastic connector

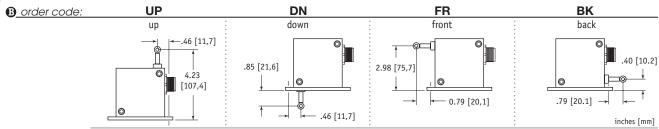
Full Stroke Ranae:

® 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 o	unces		
max. cable velocity/acceleration:	300 in./sec ● 5 G's								120 in./sec ● 2 G's					

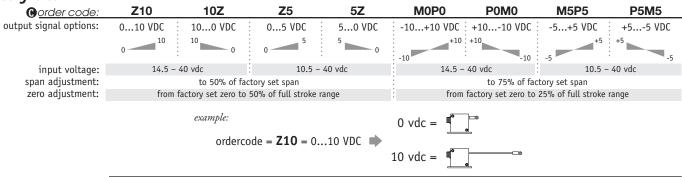
Measuring Cable:



Cable Exit:



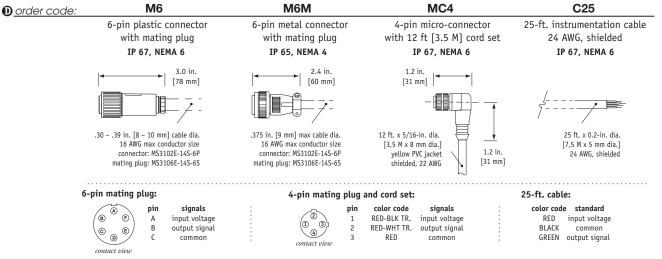
Output Signals:



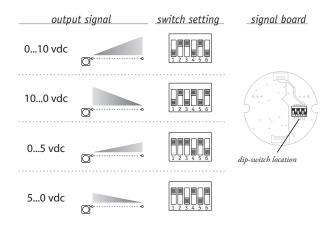
PT5DC • Cable-Extension Transducer: 0...10 • −10...+10 VDC Output Signal Options

Ordering Information (cont.)

Electrical Connection:



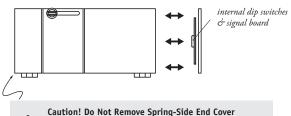
Output Signal Selection (does not apply to -5...+5 & -10...+10 vdc options)



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.



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

version: 4.0 last updated: May 28, 2008