

Cable-Extension Position Transducer

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

Ranges: 0-10 to 0-250 inches

Industrial Grade • High Cycle Applications



PT5DC

Specification Summary:

GENERAL

Full Stroke Range Options 0-10 to 0-250 inches
 Output Signal Options 0...5, 0...10, -5...+5, -10...+10 VDC
 Accuracy $\pm 0.28\%$ to $\pm 0.15\%$ full stroke *see ordering information*
 Repeatability $\pm 0.05\%$ full stroke
 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 *see ordering information*
 Weight 5 lbs. max.

ELECTRICAL

Input 14.5-40 VDC (10.5-40 VDC for 0...5 and -5...+5 volt output)
 Input Current 10 mA maximum
 Output Impedance 1000 ohms
 Maximum Load 5000 ohms
 Zero and Span Adjustment *see ordering information*

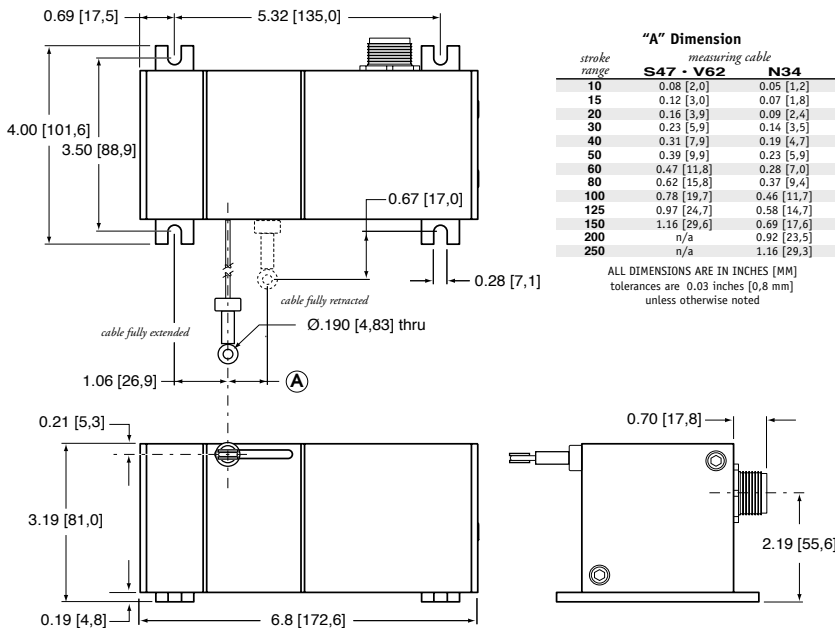
ENVIRONMENTAL

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

EMC COMPLIANCE PER DIRECTIVE 89/336/EEC

Emission/Immunity EN50081-2 / EN50082-2

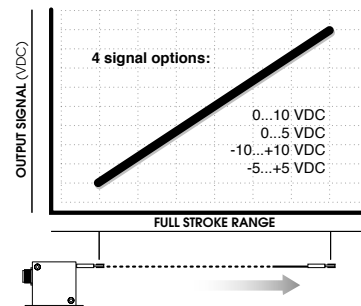
Outline Drawing



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.

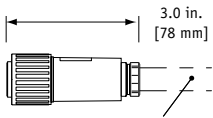
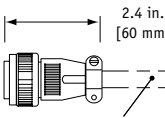
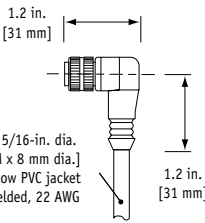
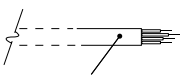
Output Signal



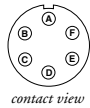
Ordering Information (cont.)

Electrical Connection:

① order code:

M6	M6M	MC4	C25
6-pin plastic connector with mating plug IP 67, NEMA 6	6-pin metal connector with mating plug IP 65, NEMA 4	4-pin micro-connector with 12 ft [3.5 M] cord set IP 67, NEMA 6	25-ft. instrumentation cable 24 AWG, shielded IP 67, NEMA 6
			
.30 - .39 in. [8 - 10 mm] cable dia. 16 AWG max conductor size connector: MS3102E-14S-6P mating plug: MS3106E-14S-6S	.375 in. [9 mm] max cable dia. 16 AWG max conductor size connector: MS3102E-14S-6P mating plug: MS3106E-14S-6S	12 ft. x 5/16-in. dia. [3,5 M x 8 mm dia.] yellow PVC jacket shielded, 22 AWG	25 ft. x 0.2-in. dia. [7,5 M x 5 mm dia.] 24 AWG, shielded

6-pin mating plug:



contact view

pin	signals
A	input voltage
B	output signal
C	common

4-pin mating plug and cord set:



contact view

pin	color code	signals
1	RED-BLK TR.	input voltage
2	RED-WHT TR.	output signal
3	RED	common

25-ft. cable:

color code	standard
RED	input voltage
BLACK	common
GREEN	output signal