PT5A Industrial Grade • Voltage Divider

Absolute Linear Position to 250 inches (6350 mm) Hard Anodized Aluminum Enclosure High Cycle Applications IP67 • NEMA 6 Protection

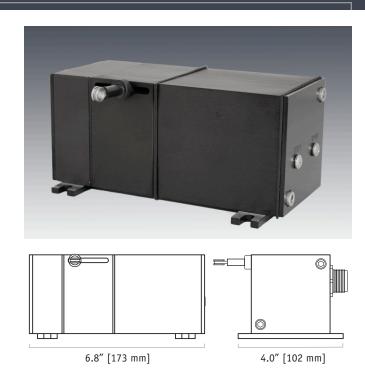
CE

GENERAL

Full Stroke Range Options	0-10 to 0-250 inches
Output Signal Options	voltage divider (potentiometer)
Accuracy	see ordering information
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 Velocit	see ordering information
Maximum Retraction Acceleration	see ordering information
Weight	5 lbs. max.

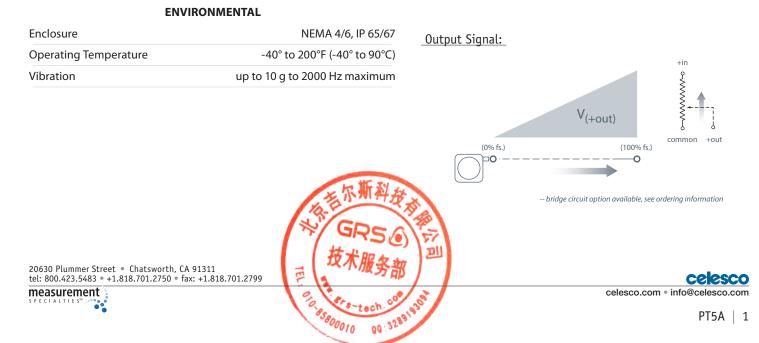
ELECTRICAL

Input Resistance Options	500, 1K, 5K, 10K ohms or bridge
Power Rating, Watt	see ordering information
Recommended Maximum Input Voltage	see ordering information
Output Signal Change Over Full Stroke Ra	inge 94% ±4% of input voltage

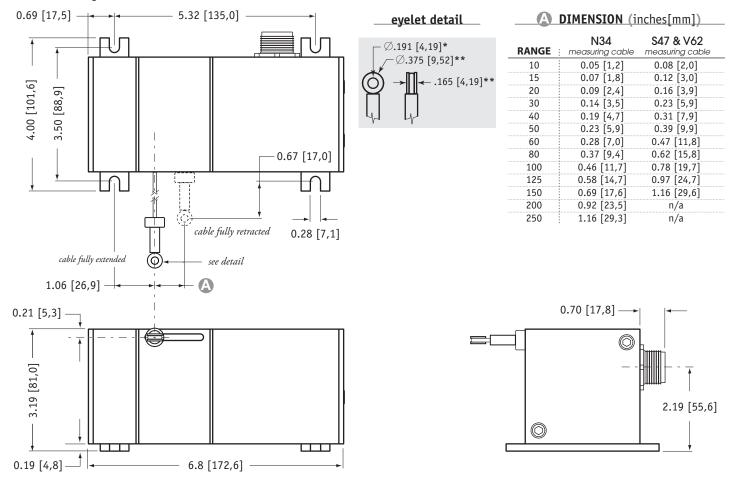


The PT5A potentiometric cable-extension transducer uses a unique thermoplastic cable that has virtually an infinite fatigue life. This cable, known as V62, has properties that are superior for high cycle and rugged applications.

Like Celesco's other transducers, the PT5A installs in minutes, functions properly without perfectly parallel alignment, and fits easily into small areas. The PT5A offers additional installation flexibility since its cable exit can be rotated relative to the mounting surface, providing four different cable exit orientations.



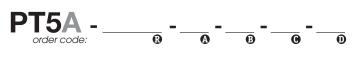
Outline Drawing:



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

Ordering Information:

Model Number:



Sample Model Number:

PT5A - 100 - N34 - FR - 500 - M6

 (1)
 range:
 100 inches

 (1)
 measuring cable:
 .034 nylon

 (2)
 cable exit:
 front

 (2)
 output signal:
 500 ohm pc

 (1)
 electrical connection:
 6-pin plasti

.034 nylon-coated stainless front 500 ohm potentiometer 6-pin plastic connector

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

** tolerance = +.005 -.005 [+.13 -.13]

Full Stroke Range:

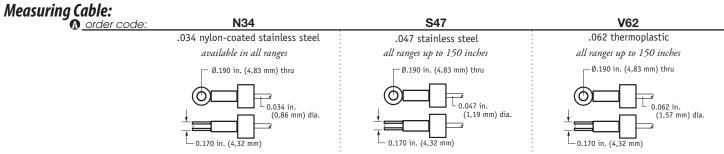
R <u>order code:</u>	10	15	20	25	30	40	50	60	80	100	125	150	200	250
full stroke range, min:	10 in.	15 in.	20 in.	25 in.	30 in.	40 in.	50 in.	60 in.	80 in.	100 in.	125 in.	150 in.	200 in.	250 in.
accuracy (±% of f.s.):	.75%	.6%	.5%	.5%	.5%	.3%	.3%	.25%	.25%	.25%	.25%	.18%	.18%	.18%
repeatability (±% of 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					
max. cable velocity/acceleration:	300 in./sec • 5 g								120 in./sec • 2 g					

<u>celesco</u>

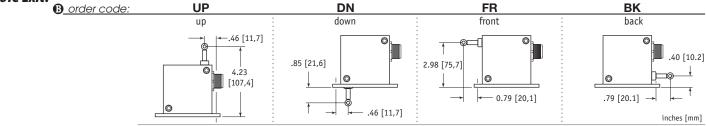
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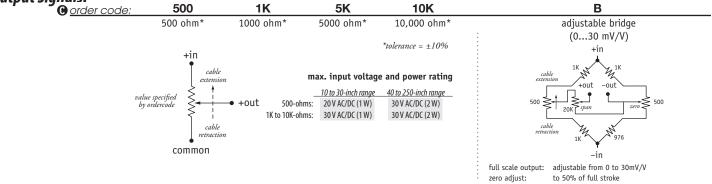
Ordering Information (cont.):



Cable Exit:



Output Signals:



Electrical Connection: D order code **M6** M6M MC4 C25 6-pin plastic connector 6-pin metal connector 4-pin micro-connector 25-ft. instrumentation cable with mating plug with mating plug with 12 ft [3.5 M] cordset 24 AWG, shielded IP 67, NEMA 6 IP 65, NEMA 4 IP 67, NEMA 6 IP 67, NEMA 6 3.0 in. 2.4 in. 1.2 in. [78 mm] [60 mm] [31 mm] -10 .30 - .39 in. [8 - 10 mm] cable dia. .375 in. [9 mm] max cable dia. 12 ft. x 5/16-in. dia. 25 ft. x 0.2-in. dia. 16 AWG max conductor size 16 AWG max conductor size [3,5 M x 8 mm dia.] [7,5 M x 5 mm dia.] TEL 1.2 in. connector: MS3102E-14S-6P connector: MS3102E-14S-6P yellow PVC jacket 24 AWG, shielded [31 mm] mating plug: MS3106E-14S-6S mating plug: MS3106E-14S-6S shielded, 22 AWG 0 85800010 3289 5-pin mating plug: 4-pin mating plug and cord set: 25-ft. cable: 00 bridge pin standard pin color code standard bridae color code standard bridge A +IN +IN RED-BLK TR. +IN +IN RED +IN +IN 2 А 1 B (F В COMMON -IN (D 3 RED-WHT TR. COMMON -IN BLACK COMMON -IN 2 E C (ھ) С +0UT -OUT RED +0UT +0UT GREEN +0UT +0UT 0 3 GREEN -OUT WHITE -OUT D +0UT contact vieu 4 contact view

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