

The MTA is part of Celesco's miniature line of cable-extension position transducers that is perfect for short-ranged testing and control applications where space is at a premium.

This transducer uses a high-cyle conductive plastic potentiometer to provide a precision voltage divider feedback signal for measurement ranges of 3 or 5 inches full stroke. With an accuracy of ±0.4% and a repeatability of ±0.02%, the MTA conveniently mounts using servo-clips for easy rotational adjustment.

### **Output Signal**



# MTA Voltage Divider Output

**Compact String Pot • Absolute Linear Position** 0-3, 0-5 inch Stroke Range Options **High Cycle Applications** Crash Testing • Flight Testing • OEM

#### General

Full Stroke Range	0-3 and 0-5 inches, min.
Output Signal	voltage divider (potentiometer)
Accuracy	±0.4 % full stroke
Repeatability	±0.02% full stroke
Resolution	essentially infinite
Potentiometer Cycle Life	50 million cycles*
Measuring Cable	0.024-in. dia. nylon-coated stainless steel
Measuring Cable Tension	see ordering information
Enclosure Material	anodized aluminum
Sensor	conductive plastic potentiometer
Weight (maximum)	3-inch: 0.10 lbs., 5-inch: 0.26 lbs.

# **Electrical**

Input Resistance	5K ohms (±10%)
Power Rating, Watts	1.0 at 40° C (derated to 0 @ 110°C)
Recommended Maximum Input Voltage	30V (AC or DC)
Temperature coefficient of voltage dividing ratio	< 2 ppm/°C
Temperature coefficient of resistance, -50+75°C	±200 ppm/°C
Temperature coefficient of resistance, +75+100°C	±300 ppm/°C
Maximum Output Signal	94% ±4% of input voltage
Environmental	
Enclosure	NEMA 12, IP55

Enclosure	NEMA 12, IP55
Operating Temperature	-67° to 212°F (-55° to 100°C)

## **Outline Drawing**



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