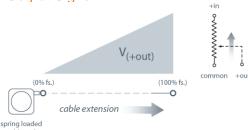


The MTA is part of Celesco's miniature line of cable-extension position transducers that is perfect for short-ranged testing and control applications where space is at a premium.

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.

voltage divider (potentiometer) **Output Signal** 

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 30V (AC or DC)

Voltage

Temperature coefficient of < 2 ppm/°C

voltage dividing ratio

±200 ppm/°C

Temperature coefficient of

resistance, -50...+75°C

Temperature coefficient of

resistance, +75...+100°C

±300 ppm/°C

**Maximum Output Signal** 

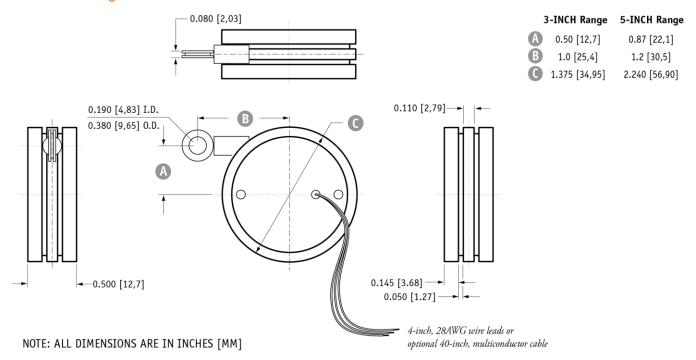
94% ±4% of input voltage

## Environmental

**Enclosure** NEMA 12, IP55

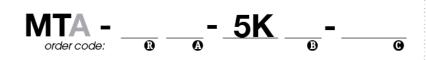
**Operating Temperature** -67° to 212°F (-55° to 100°C)

## **Outline Drawing**



# **Ordering Information**

## **Model Number:**



## Sample Model Number:

## MTA - 3AE - 5KC - MB

- R range/cable tension: 3 inches/4 oz.
- measuring cable termination:
  electrical connection:
  mounting bracket:

nation: eyelet instrumentation cable, 40-in. yes

## Full Stroke Range:

order code:	3	3A	5	5 <b>A</b>	
full stroke range, min:	3 inches		5 inc	5 inches	
std. cable tension (±25%):	2.0 oz.	4.0 oz.	1.2 oz.	2.4 oz.	
max. acceleration:	30 G's	60 G's	3 G's	6 G's	

## **Measuring Cable Termination:**

