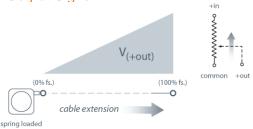




The MTA is part of Celesco's miniature line of cable-extension position transducers that is perfect for short-ranged testing and control applications where space is at a premium.

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 30V (AC or DC)

Voltage

Temperature coefficient of < 2 ppm/°C voltage dividing ratio

Temperature coefficient of ±200 ppm/°C

resistance, -50...+75°C

Temperature coefficient of ±300 ppm/°C

resistance, +75...+100°C

**Maximum Output Signal** 94% ±4% of input voltage

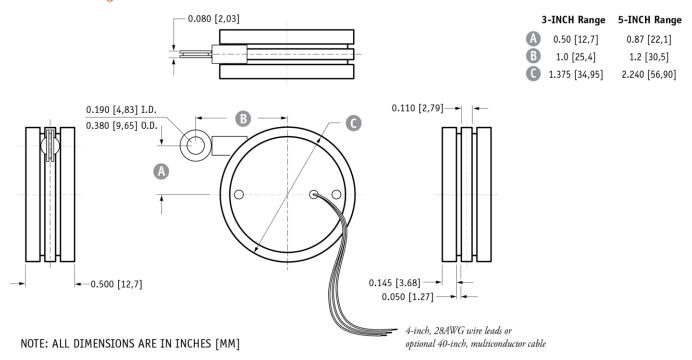
# Environmental

**Enclosure** NEMA 12, IP55

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

SENSOR SOLUTIONS /// MTA 12//2015 Page 1

# **Outline Drawing**



# **Ordering Information**

### **Model Number:**



#### Sample Model Number:

### MTA - 3AE - 5KC - MB

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

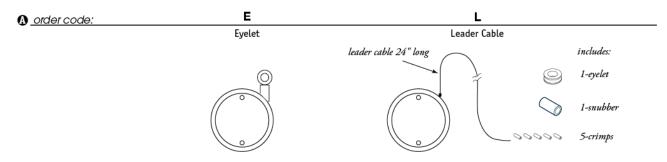
eyelet instrumentation cable, 40-in.

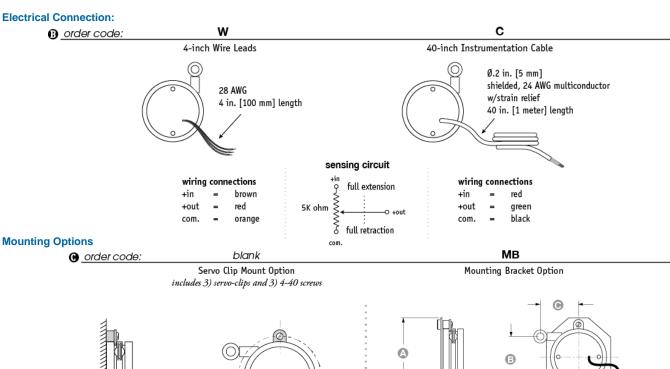
**(G)** mounting bracket: yes

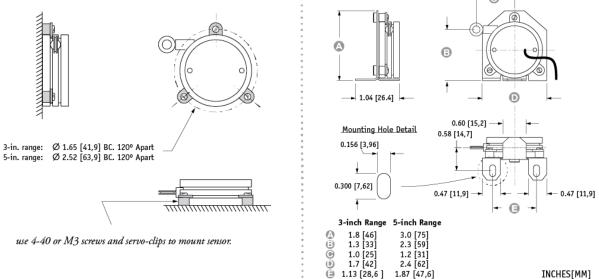
## Full Stroke Range:

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:**







#### NORTH AMERICA

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Fax +1 818 701 2799 info@celesco.com

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