## **Precision Potentiometric Output**

Ranges: 0-3 and 0-5 inches

Compact Size • Crash Test • Flight Test • OEM

# MTA

 $\epsilon$ 

#### **Specification Summary:**

GENERAL	
Full Stroke Ranges	0-3 and 0-5 inches, min.
	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
Enclosure Material	anodized aluminum
Sensor	conductive plastic potentiometer
Weight (maximum)	3-inch: 0.10 lbs., 5-inch: 0.26 lbs.

#### **ELECTRICAL**

CENEDAL

Input Resistance	
Recommended Maximum Input Voltage	,
Temperature coefficient of voltage dividing rati	
Temperature coefficient of voltage dividing rati	0 \ 2 μμπη C
-50+75°C	+200 nnm/°C
+75+100°C	• • • • • • • • • • • • • • • • • • • •
Output Signal Change Over Measurement Rang	
Output signal Change Over Measurement Rand	je94% ±4% oi input voitage

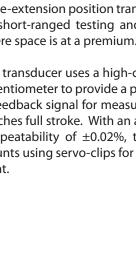
#### **MECHANICAL**

Measuring Cable Tension ......see ordering information

#### **ENVIRONMENTAL**

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

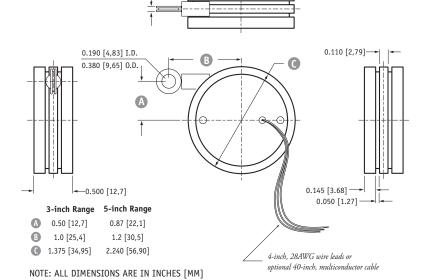
\*note: potentiometer cycle life is defined as the minimum number of times the measuring cable can be fully extended and retracted before any measureable degradation of the output signal occurs.



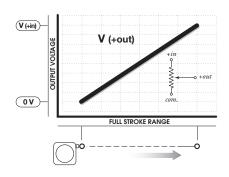


The MTA is part of Celesco's new miniature line of cable-extension position transducers that is perfect for short-ranged testing and control applications where space is at a premium.

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  $\pm 0.4\%$  and a repeatability of ±0.02%, the MTA conveniently mounts using servo-clips for easy rotational adjustment.



#### Output Signal



### MTA • Cable-Extension Transducer: Precision Potentiometric Output

#### Ordering Information:

#### Model Number:

MTA - \_\_\_ - \_5K \_\_ - \_

Sample Model Number:

MTA - 3AE - 5KC - MB

R range/cable tension:M measuring cable termination:B electrical connection:

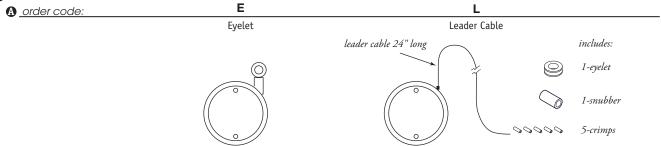
• mounting bracket:

- 3 inches/4 oz. eyelet instrumentation cable, 40-in.
- ye

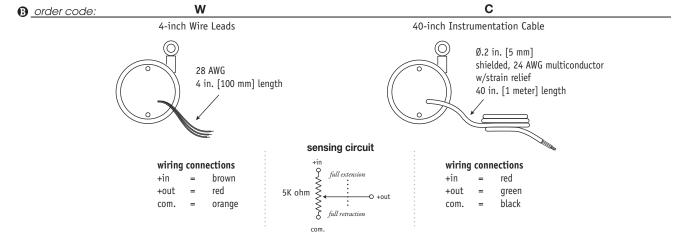
## Full Stroke Range:

R order code:	3	3A	5	5A	
full stroke range, min:	3 inc	ches	5 inc	hes	
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:



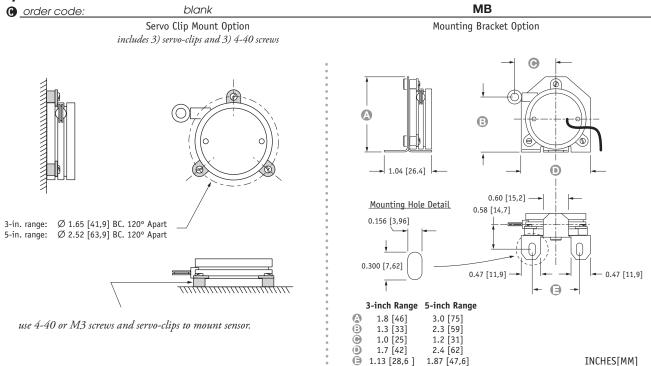
# **Electrical Connection:**



#### MTA • Cable-Extension Transducer: Precision Potentiometric Output

#### Ordering Information (cont.)

## **Mounting Options:**



1.13 [28,6]

1.87 [47,6]

INCHES[MM]

Website: www.intertechnology.com