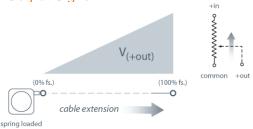




The MTA is part of Celesco's miniature line of cable-extension position transducers that is perfect for short-ranged testing and control applications where space is at a premium.

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

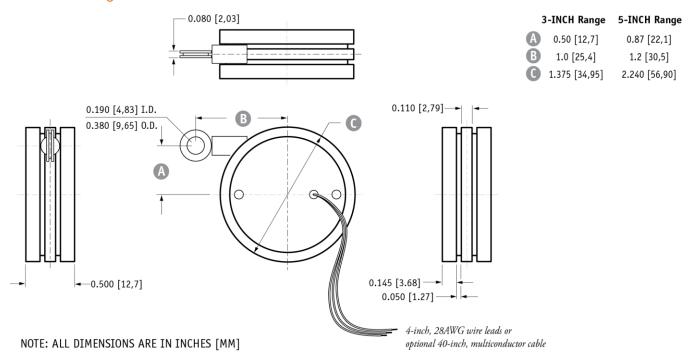
Environmental

Enclosure NEMA 12, IP55

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

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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:

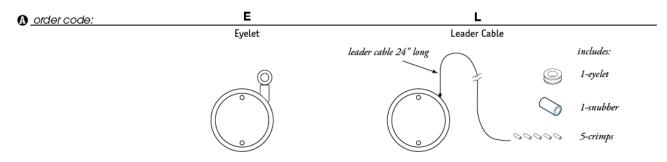
eyelet instrumentation cable, 40-in.

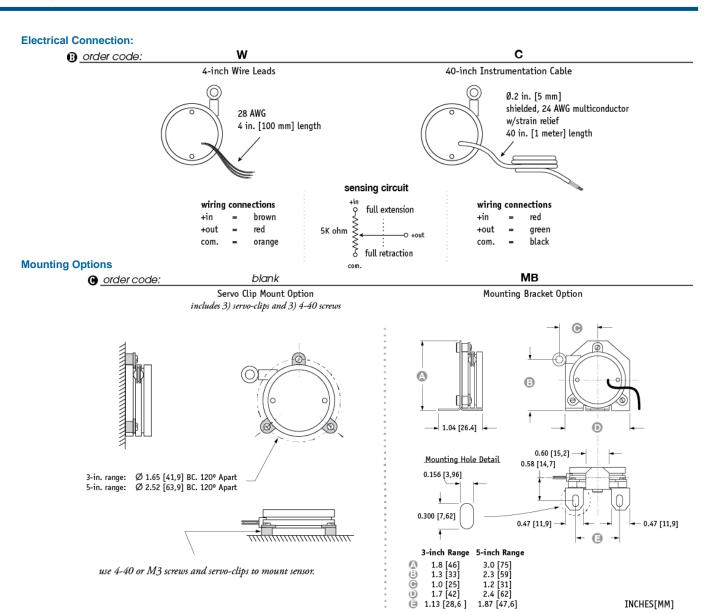
(G) mounting bracket: yes

Full Stroke Range:

order code:	3	3A	5	5 A	
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:





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