# MT2E

# **Test Applications • Incremental Encoder**

Compact String Pot • 30-inch Stroke Range **Dual Axis 360° Mounting Bracket** Flight/Crash Test Applications **Aluminum & Polycarbonate Enclosure** 

 $C \in$ 

#### **GENERAL**

Full Stroke Range	0-30 inches, min.
Output Signal	incremental encoder
Accuracy	0.04% full stroke (contact factory for higher accuracy)
Repeatability	± 0.02% full stroke
Resolution	$316 \pm 7$ pulses per inch ( $13 \pm 1$ pulses per mm)
Measuring Cable	Ø.019-in. nylon-coated stainless steel
Enclosure Material	anodized aluminum
Sensor Cover	polycarbonate
Sensor	optical incremental encoder
Weight	0.5 lb. max.

#### **ELECTRICAL**

Input Voltage	5 - 26 VDC	
Input Current	35 mA, no load	
Output Driver	push-pull, 20 mA source/sink	
Output Voltage	equal to the input voltage	
Mating Plug	LEMO FGG.OB.304.CLAD52	

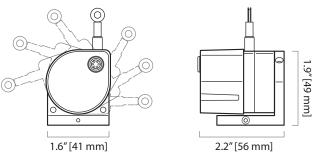
#### **MECHANICAL**

Measuring Cable Tension Options	9, 14 and 33 oz.
Maximum Measuring Cable Acceleration	136 g

#### **ENVIRONMENTAL**

**Operating Temperature** 32° to 158° F ( 0° to 70°C)

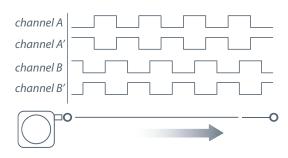




The MT2E is our new encoder-based member to our family of rugged, accurate miniature cable-extension position transducers. The Celesco MT2E features a highly-tensioned heavy-duty measuring cable that was designed for the high-acceleration demands encountered in flight testing and automotive crash tests.

The MT2E was designed with 2-axis 360° rotation in its mounting bracket which allows for fast and simple installation in any direction.

### Output Signal

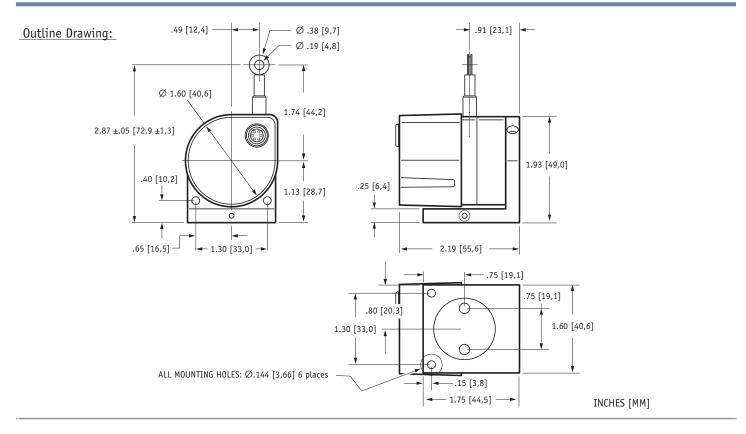


-- see ordering information for available channels



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Ordering Information:

# **Model Number:**

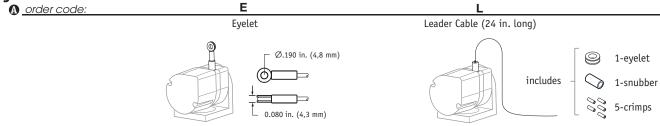
Sample Model Number:

MT2E - 30E - 33 - 316 - M1

R range: 30 inches eyelet

 measuring cable termination:
measuring cable tension:
electrical connection: 33 oz. (±6 oz.) end-mounted connecto

**Measuring Cable Termination:** 

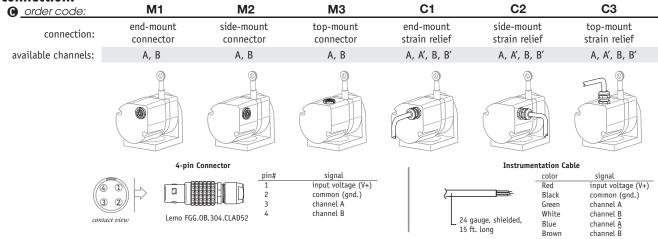


# Measurina Cable Tension:

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<b>B</b> <u>order code:</u>	9	14	33	
tension:	9 (±2) oz.	14 (±4) oz.	33 (±6) oz.	
max. cable acceleration:	99 g	136 g	136 g	
spring cycle-life, 25-inch extension:	≥ 1 mi <b>l</b> lion	150,000	75,000	
spring cycle-life, 15-inch extension:	≥ 1 mi <b>l</b> lion	≥ 1 mi <b>ll</b> ion	≥ 1 mi <b>ll</b> ion	

## Ordering Information (cont.):

# **Electrical Connection:**



### Accessories:

