# 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

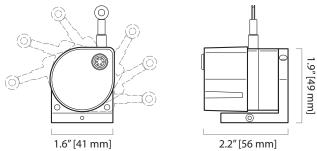
#### **MECHANICAL**

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)

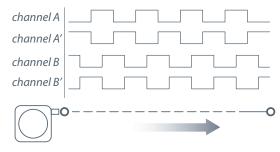




The MT2E is our new encoder-based member to our family of rugged, accurate miniature cable-extension position transducers. The Celesco MT2E features a highly-tensioned heavy-duty measuring cable that was designed for the high-acceleration demands encountered in flight testing and automotive crash tests.

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

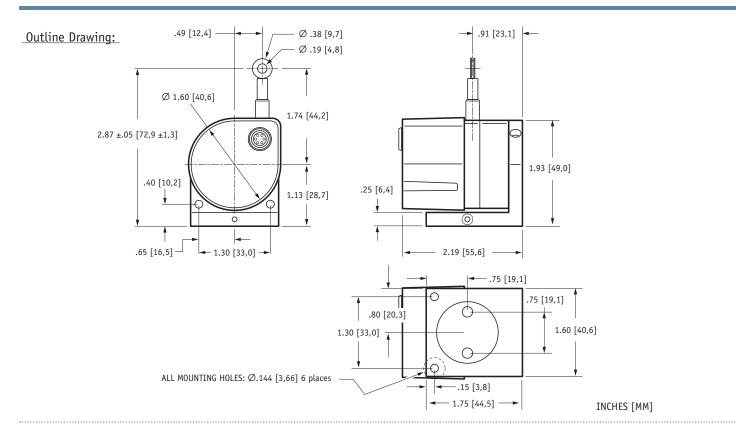


-- see ordering information for available channels



20630 Plummer Street • Chatsworth, CA 91311





Ordering Information:

#### **Model Number:**

Sample Model Number:

MT2E - 30E - 33 - 316 - M1

R range:

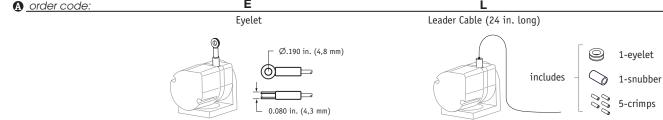
30 inches eyelet

measuring cable termination:
 measuring cable tension:
 electrical connection:

33 oz. (±6 oz.)

end-mounted connecto

# **Measuring Cable Termination:**Order code:



### **Measuring Cable Tension:**

medicularity concrete concretions				
<b>B</b> order code:	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 million	150,000	75,000	
spring cycle-life, 15-inch extension:	≥ 1 million	≥ 1 million	≥ 1 million	

# Ordering Information (cont.):

# **Electrical Connection:**

<b>@</b> order code:	M1	M2	М3	C1	C2	C3
connection:	end-mount connector	side-mount connector	top-mount connector	end-mount strain relief	side-mount strain relie	,
available channels:	A, B	A, B	A, B	A, A', B, B'	A, A', B, B	A, A', B, B'
4-pin Connector					Instrument	ation Cable
<u> </u>	3 2 Lemo FGG.	pin# 1 2 3 0B.304.CLAD52 4	signal input voltage (V+) common (gnd.) channel A channel B		auge, shielded,	color signal Red input voltage (V+) Black common (gnd.) Green channel A White channel B Blue channel Ā Brown channel B

#### Accessories:

