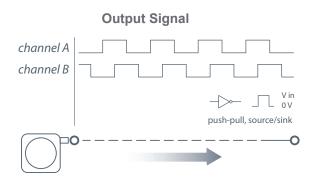


The MT2E1 is the encoder-based member of our family of rugged, accurate miniature cable-actuated position transducers. The MT2E1 features a highly-tensioned heavy-duty measuring cable that was designed for the high-acceleration demands encountered in drop testing and automotive crash tests.

The MT2E1 was designed with 2-axis 360° rotation in its mounting bracket which allows for fast and simple installation in any direction.

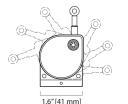


# MT2E1

Cable-Actuated Position Sensor

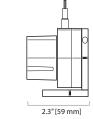
Incremental Encoder Output • Test Applications

Compact String Pot • 0-30 & 0-50 inch Stroke Range Options Dual Axis 360° Mounting Bracket Drop and Crash Test Applications Aluminum & Polycarbonate Enclosure









50 inch

GENERAL Full Stroke Range Options Output Signal Accuracy Repeatability Resolution: 30-inch Range 50-inch Range Measuring Cable Enclosure Material Sensor Cover Options Sensor Weight, 30-inch Weight, 50-inch

30 inch

#### ELECTRICAL

Input Voltage, Vin Input Current Output Driver Output Voltage, Vout Mating Plug

#### MECHANICAL

Measuring Cable Tension Maximum Acceleration

#### ENVIRONMENTAL

**Operating Temperature** 

0-30, 0-50 inches incremental encoder 0.04% full stroke ± 0.02% full stroke

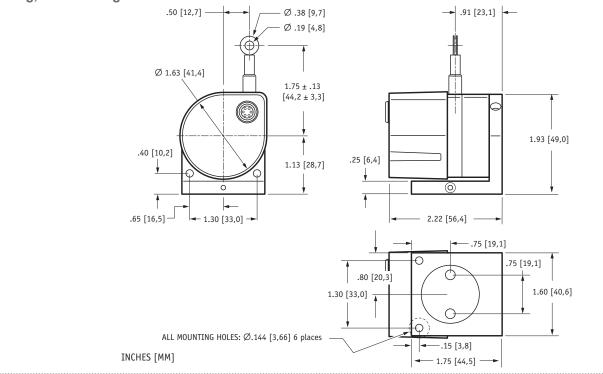
316 ± 5 pulses per inch
188 ± 2 pulses per inch
Ø.019-in. nylon-coated stainless steel anodized aluminum
polycarbonate and aluminum
optical incremental encoder
0.5 lb. max.
1.0 lb. max.

5 - 26 VDC 50 mA (max, no load) push-pull (sink/source, 20mA max.) Vout = Vin LEMO FGG.OB.304.CLAD52

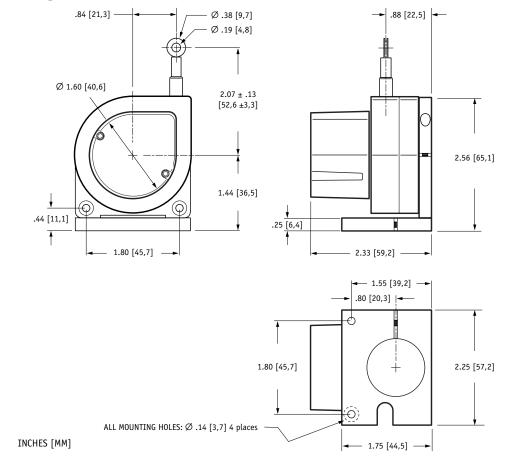
see ordering information see ordering information

-32° to 158° F (0° to 70°C)

#### Fig. 1 - Outline Drawing, 30-inch range:



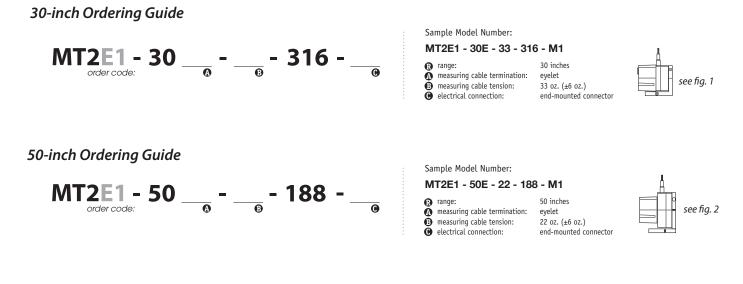
#### Fig. 2 - Outline Drawing, 50-inch range:



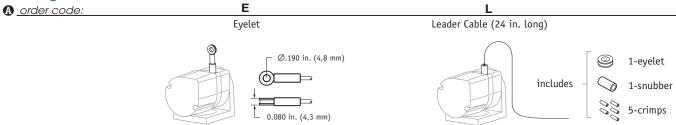
GuangZhou TaiDaXin Measurement And Control Technology Co., Ltd. Tel:+086-20-81978835 http://www.tdxck.com

# **Ordering Information:**

### **Model Number:**



## Measuring Cable Termination:

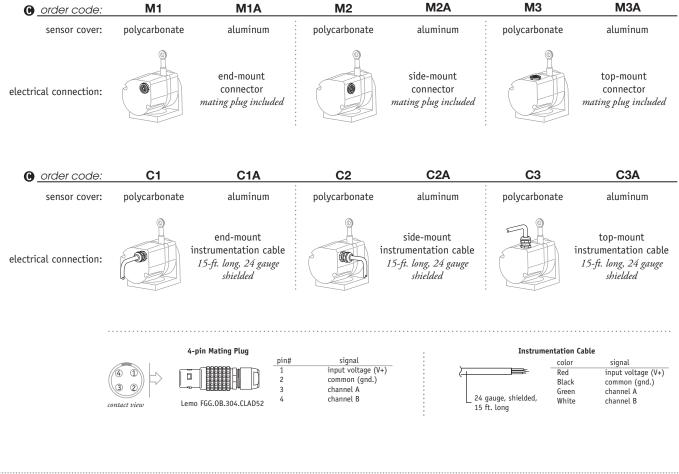


### Measuring CableTension:

<b>B</b> _order code:	9	14	33	
30-inch range option:	9 (±3) oz.	14 (±5) oz.	33 (±10) oz.	
max. cable acceleration:	99 g	136 g	136 g	
spring cycle-life, 80% extension:	$\geq$ 1 million	150,000	75,000	
spring cycle-life, 50% extension:	≥ 1 million	≥ 1 million	$\geq$ 1 million	
B order code:	9	22		
50-inch range option:	9 (±3) oz.	22 (±7) oz.		
max. cable acceleration:	46 g	68 g		
spring cycle-life, 80% extension:	$\geq$ 1 million	150,000		
spring cycle-life, 50% extension:	≥ 1 million	≥ 1 million		

# **Ordering Information (cont.):**

## **Electrical Connection:**



#### Accessories:

Part Number	Description
9603957-0015	15 ft. long cordset. Includes mating connector with 15 ft., 24 gauge, shielded multiconductor cable. Signals: V+, Gnd, Channel A, Channel B