



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.

Output Signal channel A channel B push-pull, source/sink

MT2E1

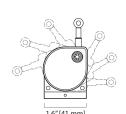
Cable-Actuated Position Sensor Incremental Encoder Output • Test Applications

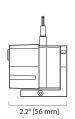
Compact String Pot • 0-30 & 0-50 inch Stroke Range Options

Dual Axis 360° Mounting Bracket

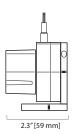
Drop and Crash Test Applications

Aluminum & Polycarbonate Enclosure









30 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

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

50 inch

anodized aluminum

polycarbonate and aluminum optical incremental encoder

0.5 lb. max. 1.0 lb. max.

ELECTRICAL

Input Voltage, Vin **Input Current Output Driver**

Output Voltage, Vout

Mating Plug

5 - 26 VDC

50 mA (max, no load)

push-pull (sink/source, 20mA max.)

LEMO EGG.OB.304.CLAD52

MECHANICAL

Measuring Cable Tension Maximum Acceleration

see ordering information see ordering information

ENVIRONMENTAL

Operating Temperature

-32° to 158° F (0° to 70°C)

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

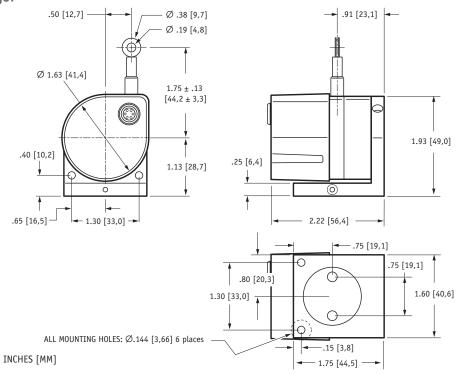
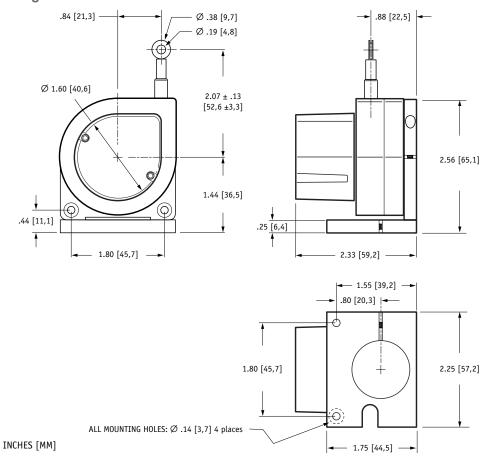


Fig. 2 - Outline Drawing, 50-inch range:



SENSOR SOLUTIONS /// MT2E1 PAGE 2

Ordering Information:

Model Number:

30-inch Ordering Guide

Sample Model Number:

MT2E1 - 30E - 33 - 316 - M1

evelet

measuring cable termination:
measuring cable tension:
electrical connection:

33 oz. (±6 oz.)



50-inch Ordering Guide

Sample Model Number:

MT2E1 - 50E - 22 - 188 - M1

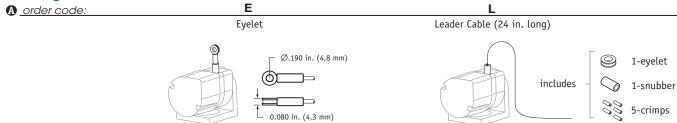
measuring cable termination:

B measuring cable tension: • electrical connection:

22 oz. (±6 oz.) end-mounted connector



Measuring Cable Termination:

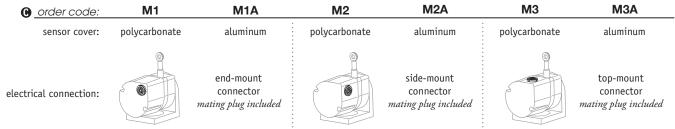


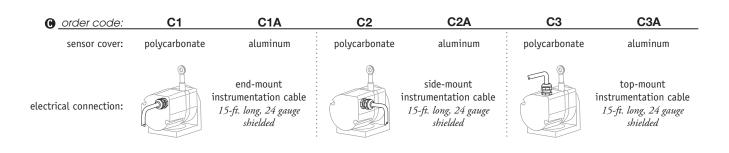
Measuring CableTension:

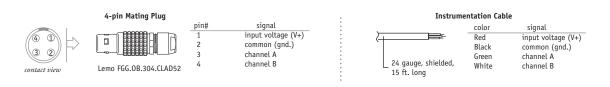
B order code:	9	14	33	
30-inch range option:	9 (±3) oz.	14 (±5) oz.	33 (±10) oz.	
max. cable acceleration:	99 g	136 g	136 g	
spring cycle-life, 80% extension:	≥ 1 million	150,000	75,000	
spring cycle-life, 50% extension:	≥ 1 million	≥ 1 million	≥ 1 million	
B order code:	9	22		
50-inch range option: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

Ordering Information (cont.):

Electrical Connection:







Accessories:



Part Number	Description
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9603957-0015

15 ft. long cordset. Includes mating connector with 15 ft., 24 gauge, shielded multiconductor cable. Signals: V+, Gnd, Channel A, Channel B

NORTH AMERICA

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