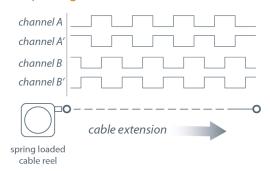




The MT2E is our new encoder-based member to our family of rugged, accurate miniature cable-extension position transducers. The Celesco MT2E features a highly-tensioned heavy-duty measuring cable that was designed for the high-acceleration demands encountered in flight testing and automotive crash tests.

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

## MT2E

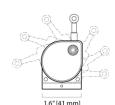
# Cable Actuated Sensor Test Applications • Incremental Encoder

**Compact String Pot • 30-inch Stroke Range** 

**Dual Axis 360° Mounting Bracket** 

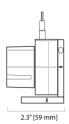
Flight/Crash Test Applications

**Aluminum & Polycarbonate Enclosure** 









### General

Full Stroke Range 0-30 inches, min.

Output Signal incremental encoder

Accuracy 0.04% full stroke

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 Voltage5 - 26 VDCInput Current35 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

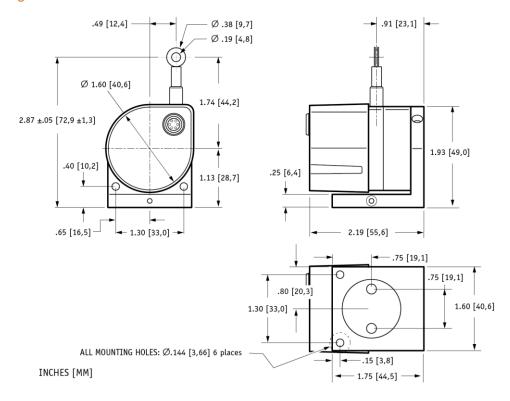
136 g

#### **Environmental**

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

SENSOR SOLUTIONS /// MT2E 12//2015 Page 1

## **Outline Drawing**



## **Ordering Information**

#### **Model Number:**



Sample Model Number:

MT2E - 30E - 33 - 316 - M1

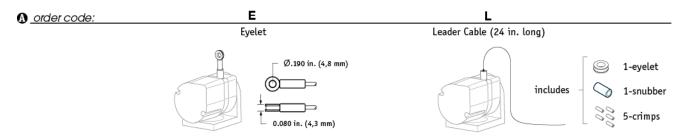
R range:
M measuring cable termination:

measuring cable termination: eyelet
measuring cable tension: 33 oz.
electrical connection: end-mo

33 oz. (±6 oz.) end-mounted connector

30 inches

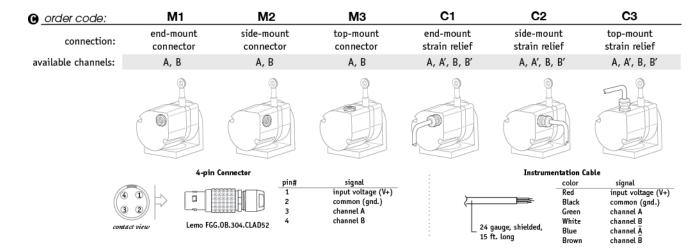
## **Measuring Cable Termination:**



## **Measuring Cable Tension:**

<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 million	150,000	75,000	
spring cycle-life, 15-inch extension:	≥ 1 million	≥ 1 million	≥ 1 million	

## **Electrical Connection**



#### Accessories



Part Number	Description
9603957-0015	15 ft. long cordset. Includes mating connector with 15 ft., 24 gauge, shielded multi-conductor cable

## **NORTH AMERICA**

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MT2E 12/01/2015