



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.

channel A channel B channel B'

cable extension

Output Signal

-- see ordering information for available channels

MT2E

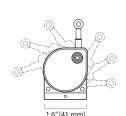
Cable Actuated Sensor Test Applications • Incremental Encoder

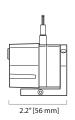
Compact String Pot • 0-30 & 0-50 inch Stroke Range Options

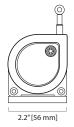
Dual Axis 360° Mounting Bracket

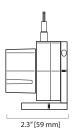
Flight/Crash Test Applications

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

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

optical incremental encoder

0.5 lb. max. 1.0 lb. max.

ELECTRICAL

Input Voltage5 - 26 VDCInput Current35 mA, no load

Output Driver push-pull, 20 mA source/sink

Output Voltage Vin = Vout

Mating Plug LEMO FGG.OB.304.CLAD52

MECHANICAL

Measuring Cable Tension Maximum Acceleration see ordering information see ordering information

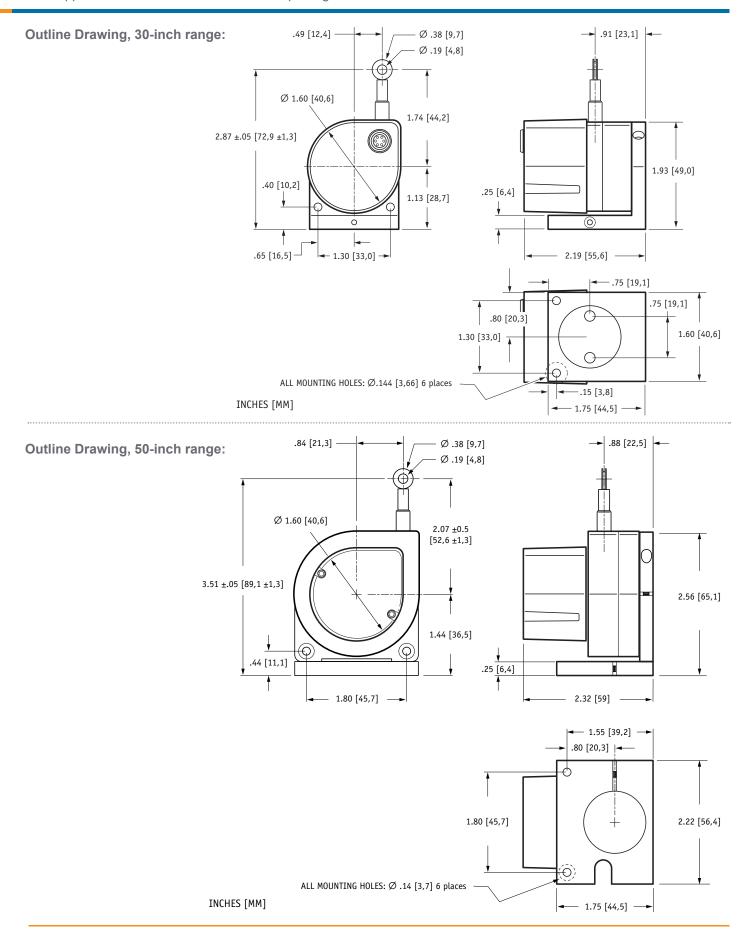
ENVIRONMENTAL

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

PAGE 1

spring loaded

cable reel



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Ordering Information:

Model Number:

Sample Model Number:

MT2E - 30E - 33 - 316 - M1

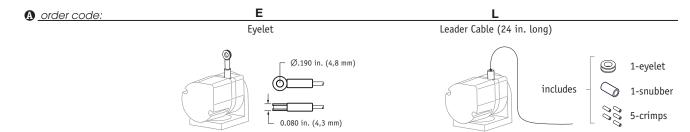
ange: 30 Incres
ameasuring cable termination: eyelet
measuring cable tension: 33 oz. (±6 oz.)
electrical connection: end-mounted connector

Sample Model Number:

MT2E - 50E - 22 - 188 - M1

range: 50 inches
 measuring cable termination: eyelet
 measuring cable tension: 22 oz. (±6 oz.)
 electrical connection: 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 (±11) 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.	14 (±5) oz.		
max. cable acceleration:	99 g	136 g		
spring cycle-life, 80% extension:	≥ 1 million	150,000		
spring cycle-life, 50% extension:	≥ 1 million	≥ 1 million		

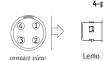
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Ordering Information (cont.):

Electrical Connection:

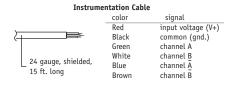
© order code:	M1	M1A	M2	M2A	М3	МЗА
sensor cover:	polycarbonate	aluminum	polycarbonate	aluminum	polycarbonate	aluminum
available channels:	A, B	А, В	A, B	A, B	A, B	A, B
electrical connection:		end-mount connector mating plug included		side-mount connector mating plug included		top-mount connector mating plug included

6 order code:	C1	C1A	C2	C2A	C3	C3A
sensor cover:	polycarbonate	aluminum	polycarbonate	aluminum	polycarbonate	aluminum
available channels:	A, A', B, B'	A, A', B, B'	A, A', B, B'	A, A', B, B'	A, A', B, B'	A, A', B, B'
electrical connection:		end-mount instrumentation cable 15-ft. long, 24 gauge shielded		side-mount instrumentation cable 15-ft. long, 24 gauge shielded		top-mount instrumentation cable 15-ft. long, 24 gauge shielded









Accessories:



Part Number	Description		
9603957-0015	15 ft. long cordset. Inclu		

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

version: 6.0 // April 21, 2017

NORTH AMERICA

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