MT2E

Test Applications • Incremental Encoder

Compact String Pot • 30-inch Stroke Range
Dual Axis 360° Mounting Bracket
Flight/Crash Test Applications
Aluminum & Polycarbonate Enclosure



CE

GENERAL

Full Stroke Range	0-30 inches, min.
Output Signal	incremental encoder
Accuracy	0.04% full stroke
Repeatability	± 0.02% full stroke
Resolution	316 ± 7 pulses per inch (13 ± 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

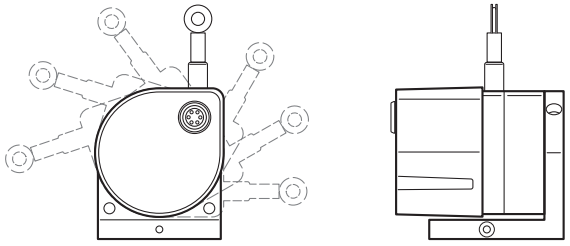
Input Voltage	5 - 26 VDC
Input Current	35 mA, no load
Output Driver	push-pull, 20 mA source/sink
Output Voltage	equal to the input voltage
Mating Plug	LEMO FGG.OB.304.CLAD52

MECHANICAL

Measuring Cable Tension Options	9, 14 and 33 oz.
Maximum Measuring Cable Acceleration	136 g

ENVIRONMENTAL

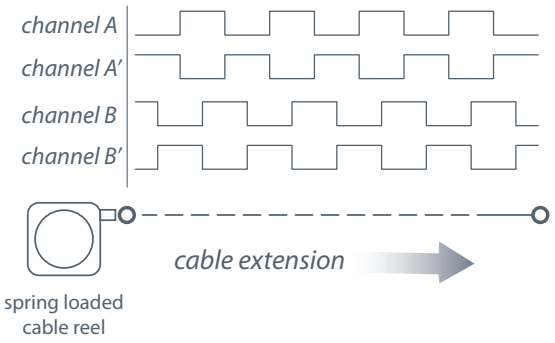
Operating Temperature	32° to 158° F (0° to 70°C)



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

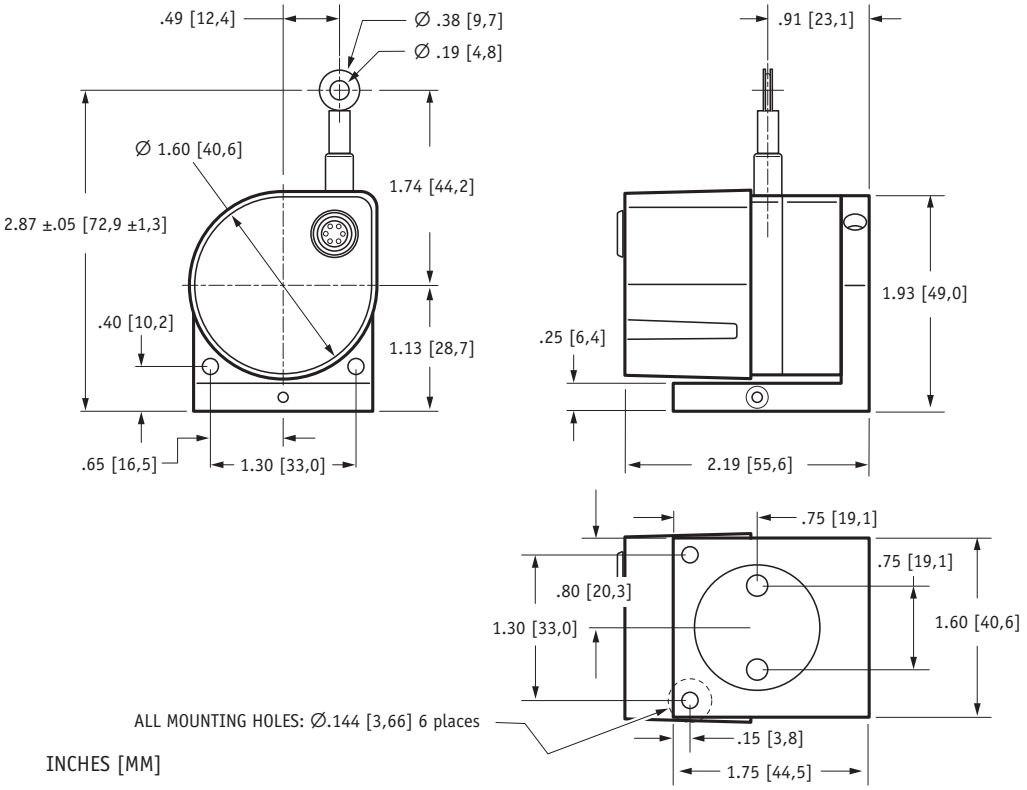


-- see ordering information for available channels

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celesco

Outline Drawing:



Ordering Information:

Model Number:

MT2E - 30 ___ - ___ - 316 - ___

order code: Ⓐ Ⓑ Ⓒ

Sample Model Number:

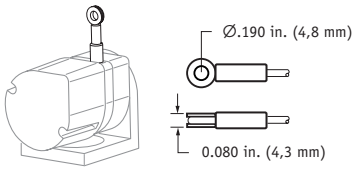
MT2E - 30E - 33 - 316 - M1

Ⓡ	range:	30 inches
Ⓐ	measuring cable termination:	eyelet
Ⓑ	measuring cable tension:	33 oz. (±6 oz.)
Ⓒ	electrical connection:	end-mounted connecto

Measuring Cable Termination:

Ⓐ *order code:*

E — Eyelet



L — Leader Cable (24 in. long)



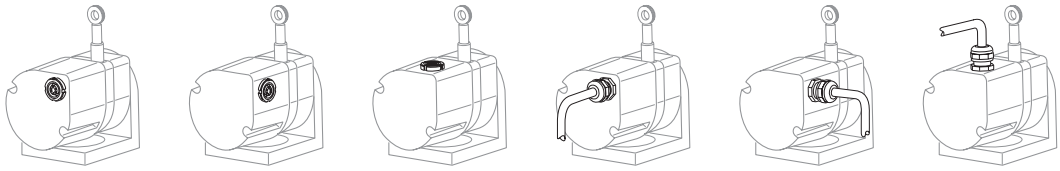
Measuring Cable Tension:

Ⓑ *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:

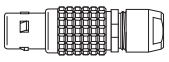
order code:	M1	M2	M3	C1	C2	C3
connection:	end-mount connector	side-mount connector	top-mount connector	end-mount strain relief	side-mount strain relief	top-mount strain relief
available channels:	A, B	A, B	A, B	A, A′, B, B′	A, A′, B, B′	A, A′, B, B′



4-pin Connector

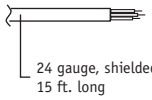


contact view


Lemo FGG.0B.304.CLAD52

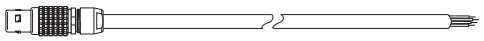
pin#	signal
1	input voltage (V+)
2	common (gnd.)
3	channel A
4	channel B

Instrumentation Cable


24 gauge, shielded, 15 ft. long

color	signal
Red	input voltage (V+)
Black	common (gnd.)
Green	channel A
White	channel B̄
Blue	channel Ā
Brown	channel B

Accessories:



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

version: **5.2** last updated: December 18, 2015