

Cable-Extension Position Transducer

Incremental Encoder Output

Ranges: 0-30 inches

Flight/Crash Test Applications • 360° 2-Axis Mount



Specification Summary:

GENERAL

Full Stroke Range..... 0-30 inches, min.
Output Signalincremental encoder (quadrature) signal
Accuracy..... 0.04% full stroke *contact factory for higher accuracy*
Repeatability..... $\pm 0.02\%$ of measurement
Resolution 316 ± 7 pulses per inch (13 ± 1 pulses per mm)
Measuring Cable $\varnothing.019$ -in. nylon-coated stainless steel
Enclosure Material..... anodized aluminum
Sensor Cover..... polycarbonate
Sensor optical incremental encoder
Cycle Life..... *see ordering information*
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

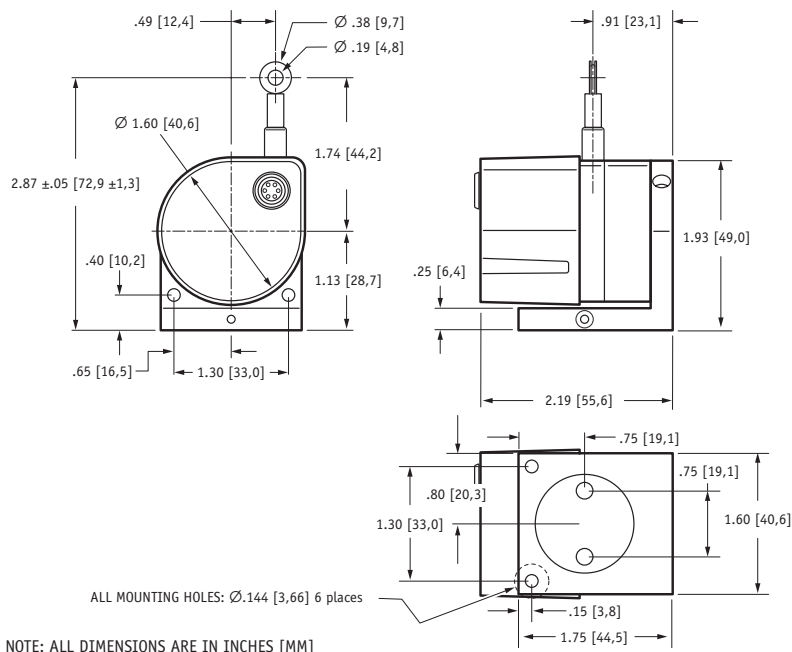
MECHANICAL

Measuring Cable Tension Options 9, 14 and 33 oz., *see ordering information*
Maximum Measuring Cable Acceleration..... 136 g's, *see ordering information*

ENVIRONMENTAL

Operating Temperature 0° to 70°C

Outline Drawing



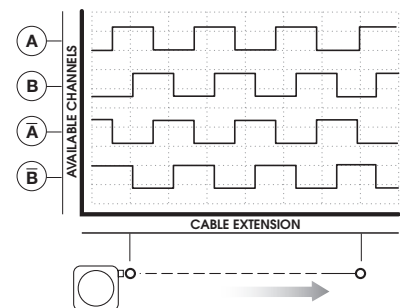
MT2E



MT2E는 견고하고 정확한 소형 케이블 연장 위치 변환기 제품군의 새로운 인코더 기반 제품입니다. Celeco MT2E는 비행 테스트 및 자동차 충돌 테스트에서 발생하는 높은 가속 요구 사항을 위해 설계된 고장력 헤비 듀티 측정 케이블을 특징으로 합니다.

MT2E는 마운팅 브래킷에서 2축 360° 회전으로 설계되어 어떤 방향으로든 빠르고 간단하게 설치할 수 있습니다.

Output Signal



Ordering Information:

Model Number:

MT2E - 30 - - - 316 -
order code: **A** **B** **C**

Sample Model Number:
MT2E - 30E - 33 - 316 - M1
R range: 30 inches
A measuring cable termination: eyelet
B measuring cable tension: 33 oz. (±6 oz.)
C electrical connection: end-mounted connector

Measuring Cable Termination:

A order code:	E	L
	Eyelet	Leader Cable (24 in. long)
	 Ø.190 in. (4,8 mm) 0.080 in. (4,3 mm)	 includes: 1-eyelet 1-snubber 5-crimps

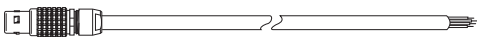
Measuring Cable Tension:

B order code:	9	14	33
tension:	9 (±2) oz.	14 (±4) oz.	33 (±6) oz.
max. cable acceleration:	99 g's	136 g's	136 g's
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:

C 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'														
	contact view 4-pin Connector Lemo FGG.0B.304.CLA052			<table><thead><tr><th>pin#</th><th>signal</th></tr></thead><tbody><tr><td>1</td><td>input voltage (V+)</td></tr><tr><td>2</td><td>common (gnd.)</td></tr><tr><td>3</td><td>channel A</td></tr><tr><td>4</td><td>channel B</td></tr></tbody></table> 24 gauge, shielded, 15 ft. long			pin#	signal	1	input voltage (V+)	2	common (gnd.)	3	channel A	4	channel B				
pin#	signal																			
1	input voltage (V+)																			
2	common (gnd.)																			
3	channel A																			
4	channel B																			
				Instrumentation Cable <table><thead><tr><th>color</th><th>signal</th></tr></thead><tbody><tr><td>Red</td><td>input voltage (V+)</td></tr><tr><td>Black</td><td>common (gnd.)</td></tr><tr><td>Green</td><td>channel A</td></tr><tr><td>White</td><td>channel B</td></tr><tr><td>Blue</td><td>channel A</td></tr><tr><td>Brown</td><td>channel B</td></tr></tbody></table>			color	signal	Red	input voltage (V+)	Black	common (gnd.)	Green	channel A	White	channel B	Blue	channel A	Brown	channel B
color	signal																			
Red	input voltage (V+)																			
Black	common (gnd.)																			
Green	channel A																			
White	channel B																			
Blue	channel A																			
Brown	channel B																			

Accessories:



Part No.: 9603957-0015
Description: 15 ft. long cordset
includes mating connector and 15 ft., 24 gauge, shielded multiconductor cable