## MT2E

Test Applications•Incremental Encoder
Compact String Pot • 30-inch Stroke Range
Dual Axis $360^{\circ}$ Mounting Bracket
Flight/Crash Test Applications
Aluminum \& Polycarbonate Enclosure
C $\epsilon$
GENERAL

| Full Stroke Range | 0-30 inches, min. |
| :---: | :---: |
| Output Signal | incremental encoder |
| Accuracy | 0.04\% full stroke (contact factory for higher accuracy) |
| Repeatability | $\pm 0.02 \%$ 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 Voltage | $5-26 \mathrm{VDC}$ |
| :--- | ---: |
| 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
$32^{\circ}$ to $158^{\circ} \mathrm{F}\left(0^{\circ}\right.$ to $\left.70^{\circ} \mathrm{C}\right)$


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 $360^{\circ}$ rotation in its mounting bracket which allows for fast and simple installation in any direction.

Output Signal

-- see ordering information for available channels

Outline Drawing:


INCHES [MM]

Ordering Information:

## Model Number:

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\text { MT2E }-30_{\text {ocoecoce }}{ }^{-}{ }_{-}^{-}-316-\ldots
$$

## Sample Model Number:

MT2E-30E-33-316-M1

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

Measuring Cable Termination:
E
Eyelet
L
Leader Cable (24 in. long)


## Measuring Cable Tension:

| B order code: | $\mathbf{9}$ | $\mathbf{1 4}$ | $\mathbf{3 3}$ |
| ---: | :---: | :---: | :---: |
| tension: | $9( \pm 2)$ oz. | $14( \pm 4) \mathrm{oz}$. | $33( \pm 6) \mathrm{oz}$. |
| cable acceleration: | 99 g | 136 g | 136 g |
| 25 -inch extension: | $\geq 1$ million | $\geq 1$ million | $\geq 1$ million |
| 15 -inch extension: | $\geq 1$ million |  |  |

## Ordering Information (cont.):

## Electrical Connection:



Accessories:


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


| Sensorik Messtechnik | $\bigcirc$ |
| :---: | :---: |
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