

Mini Series: Cable-Extension Position Transducer

Ranges: 0-3, 0-9, 0-15, 0-30 inches



Flight and Crash Test Applications

360° 2-Axis Mounting • Potentiometric Output

MT2A



Specification Summary:

GENERAL

Full Stroke Ranges 0-3, 0-9, 0-15, 0-30 inches, min., *see ordering information*
 Output Signal voltage divider (potentiometer)
 Accuracy $\pm 0.25\%$ full stroke
 Repeatability $\pm 0.02\%$ full stroke
 Resolution essentially infinite
 Measuring Cable $\varnothing 0.019$ -in. nylon-coated stainless steel
 Enclosure Material anodized aluminum
 Sensor Cover polycarbonate
 Sensor conductive plastic-hybrid potentiometer

ELECTRICAL

Input Resistance 10K ohms ($\pm 5\%$)
 Power Rating, Watts 2.0 at 40°C (derated to 0 @ 110°C)
 Recommended Maximum Input Voltage 30V (AC or DC)
 Output Signal Change Over Measurement Range $94\% \pm 4\%$ of input voltage
 Mating Plug LEMO FGG.OB.304.CLAD52

MECHANICAL

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

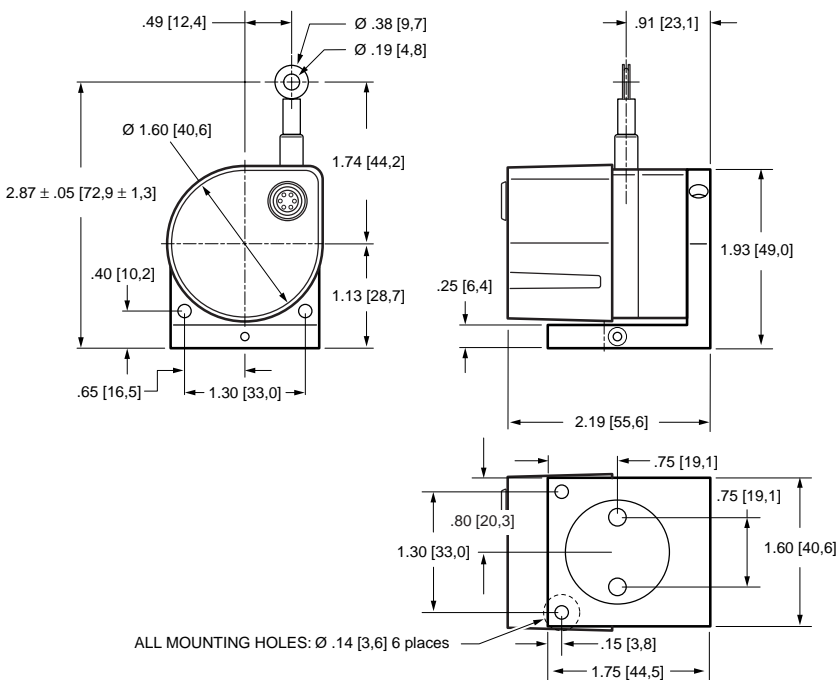
ENVIRONMENTAL

Operating Temperature -40° to 125°C

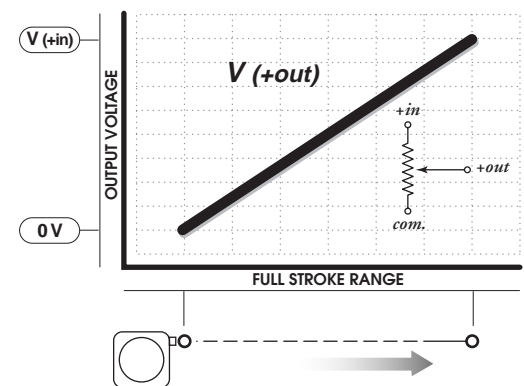
The MT2A: a new member to our family of rugged, accurate miniature cable-extension position transducers. Available in measuring ranges of 0-3", 0-9", 0-15" and 0-30", the Cellesco MT2A features a highly-tensioned heavy-duty measuring cable that was designed for the high-acceleration demands encountered in flight testing and automotive crash tests.

The MT2A was designed with 2-axis 360° rotation in its mounting bracket which allows for fast and simple installation in any direction.

Dimensions



Electrical Output Signal:



Latin Tech, Inc.

MT2A • Miniature Cable-Extension Transducer • Potentiometric Output

Ordering Information

Model Number:

MT2A - **R** **A** **B** - **10K** - **G**

order code:

Sample Model Number:

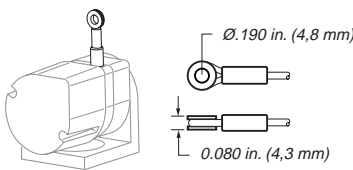
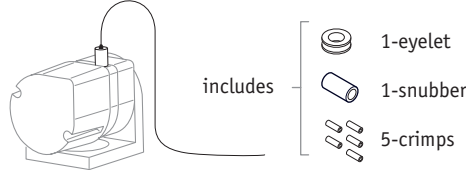
MT2A - 9E - 33 - 10K - M1

- R** range: 9 inches
- A** measuring cable termination: eyelet
- B** measuring cable tension: 33 oz. (±6 oz.)
- G** electrical connection: end-mounted connector

Full Stroke Range:

R <i>order code:</i>	3	9	15	30
full stroke range, min:	3 inches	9 inches	15 inches	30 inches

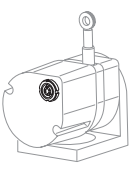
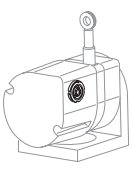
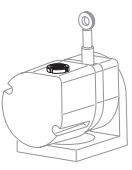
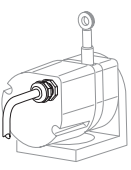
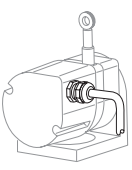
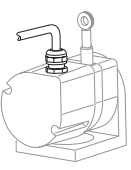
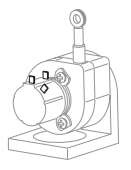
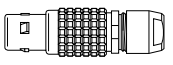

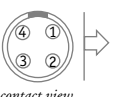
Measuring Cable Termination:

A <i>order code:</i>	E	L
<i>description:</i>	Eyelet	Leader Cable (24 in. long)
		

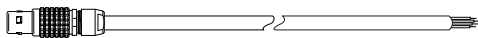
Measuring Cable Tension:

B <i>order code:</i>	9	33
tension:	9 (±2) oz.	33 (±6) oz.
max. cable acceleration:	99 G's	136 G's

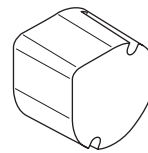
Electrical Connection:

G <i>order code:</i>	M1	M2	M3	C1	C2	C3	S								
<i>description:</i>	end-mount connector	side-mount connector	top-mount connector	end-mount strain relief	side-mount strain relief	top-mount strain relief	solder terminals (cover optional)								
															
	4-pin Connector  Lemo FGG.0B.304.CLA052			Instrumentation Cable  24 gauge, 15 ft. long		Solder Terminals <table border="1"> <tr> <th>terminal</th> <th>signal</th> </tr> <tr> <td>CW</td> <td>+in</td> </tr> <tr> <td>CCW</td> <td>common</td> </tr> <tr> <td>S</td> <td>+out</td> </tr> </table>		terminal	signal	CW	+in	CCW	common	S	+out
terminal	signal														
CW	+in														
CCW	common														
S	+out														
															

Accessories:



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



Part No.: 9603958-0000
 Description: sensor cover (includes screws and gasket)

Cover may be ordered separately when customer wants to provide either their own connector or strain relief. This cover comes without electrical wiring access holes so customer can drill to their requirements.