

MT3A

Test Applications • Voltage Divider

Compact String Pot • Flight/Crash Test Applications Dual Axis 360° Mounting Bracket 3, 9, 15 and 30-inch Stroke Range Options Wet Environments • Aluminum Enclosure

GENERAL

Full Stroke Range C	ptions	0-3, 0-9, 0-15, 0-30 inches, min.
Output Signal		voltage divider (potentiometer)
Accuracy	± 1.1% to 0	0.15% full stroke (see ordering information)
Repeatability		$\pm0.02\%$ full stroke
Resolution		essentially infinite
Measuring Cable		Ø.019-in. nylon-coated stainless steel
Enclosure Material		anodized aluminum
Sensor Cover Option	ns	aluminum or polycarbonate
Sensor		conductive plastic-hybrid potentiometer
Weight		0.5 lb. max.

ELECTRICAL

Input Resistance		10K ohms (± 10%)
Power Rating, Watts	2.0 at 158°F (70° C	c), derated to 0 @ 255°F (125°C)
Recommended Maxim	um Input Voltage	30V (AC or DC)
Electrical Stroke		94% ±4% of input voltage
Mating Plug		LEMO FGG.OB.304.CLAD52

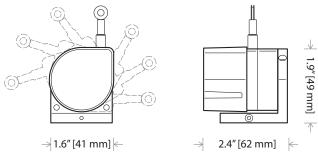
MECHANICAL

Measuring Cable Tension Options	9, 14 and 33 oz.
Maximum Measuring Cable Acceleration	90 g

ENVIRONMENTAL

Enclosure	NEMA 4 / IP67
Operating Temperature	-40° to 250° F (-40° to 120°C)

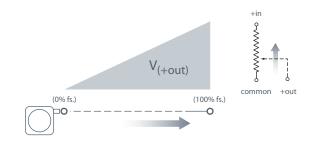


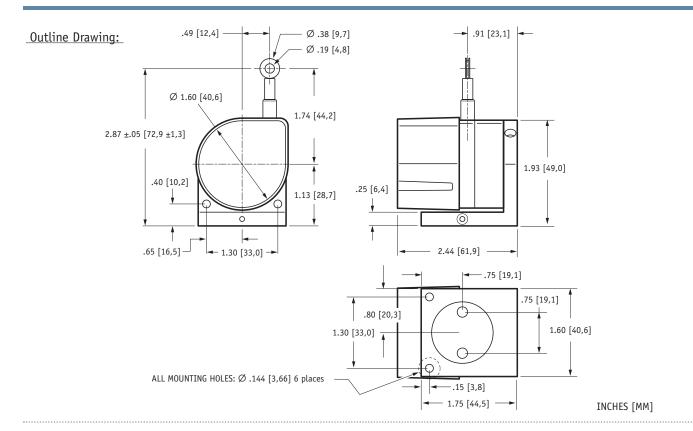


The MT3A is the solution for high-acceleration test applications in potentially wet environments. Just like the MT2A, the MT3A comes in 4 different full-stroke ranges, has a hightension heavy-duty measuring cable designed for the demands of flight and automotive crash tests and comes with an easy to use 2-axis 360° rotation mounting bracket for installation in hard to fit areas.

For extreme high impact applications, the MT3A is now available with a rugged all aluminum sensor cover!

Output Signal





Ordering Information:

Model Number:

Sample Model Number:

MT3A - 9E - 33 - 10K - C1A

R range: 9 inches measuring cable termination: eyelet

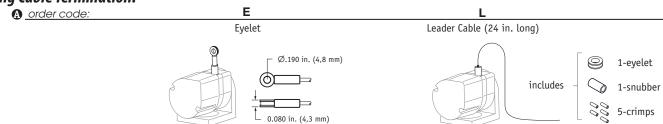
B measuring cable tension: eyetet 33 oz. (±6 oz.)

(electrical connection: 15-ft cable w/end-mounted strain relief/aluminum cover

Full Stroke Range:

® order code:	3	9	15	30	
full stroke range, min:	3 inches	9 inches	15 inches	30 inches	
potentiometer cycle-life:	2.5×10^6	8.3×10^5	5.0×10^5	2.5×10^5	
accuracy (% of full stroke):	1.1 %	.25%	.20%	.15%	

Measuring Cable Termination:



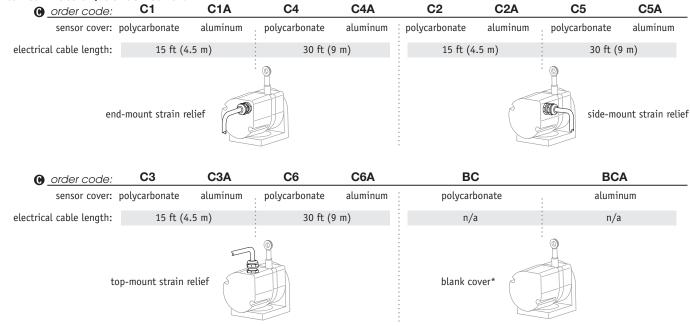
Measuring Cable Tension:

B order code:	9	14	33	
tension:	9 (±2) oz.	14 (±4) oz.	33 (±6) oz.	
max. cable acceleration:	17 g	50 g	90 g	



Ordering Information (cont.):

Electrical Connection/ Sensor Cover:



signal

common

+in

+out

color

Black

Green

24 gauge, shielded

Signal Connection

Color Code

version: 9.0 last updated: November 15, 2012

* blank cover option is for customers who want to provide their

own connector or strain relief. This cover comes without electrical

wiring access holes so customer can drill to their requirements.