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 Op	tions 0-3, 0-9, 0-15, 0-30 inches, min.
Output Signal	voltage divider (potentiometer)
Accuracy	± 1.1% to 0.15% full stroke (see ordering information)
Repeatability	\pm 0.02% full stroke
Resolution	essentially infinite
Measuring Cable	Ø.019-in. nylon-coated stainless steel
Enclosure Material	anodized aluminum
Sensor Cover Option	s 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), derated to 0 @ 255°F (125°C)	
Recommended Maxim	um Input Voltage 30V (AC o	
Electrical Stroke		94% ±4% of input voltage
Mating Plug		LEMO FGG.OB.304.CLAD52

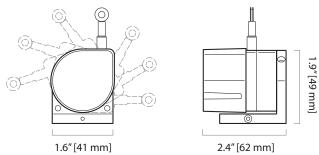
MECHANICAL

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)

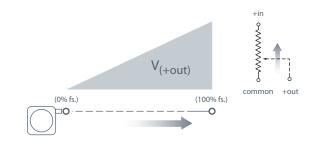




The MT3A is the solution for high-acceleration test applications in potentially wet environments. Just like the MT2A, the MT3A comes in 4 different full-stroke ranges, has a high-tension heavy-duty measuring cable designed for the demands of flight and automotive crash tests and comes with an easy to 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!

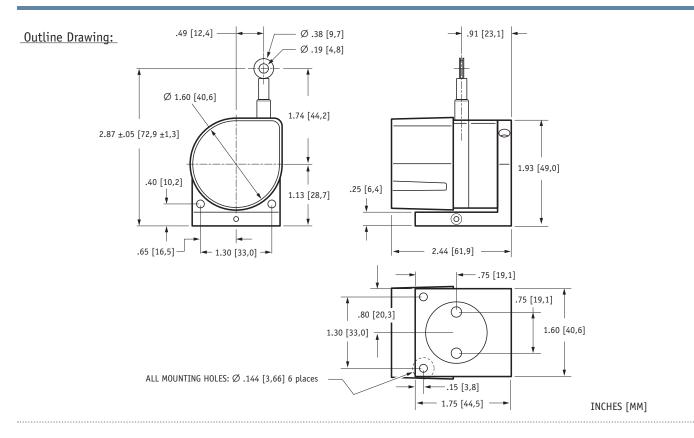
Output Signal





20630 Plummer Street • Chatsworth, CA 91311





Ordering Information:



Sample Model Number:

MT3A - 9E - 33 - 10K - C1A

A measuring cable termination:

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

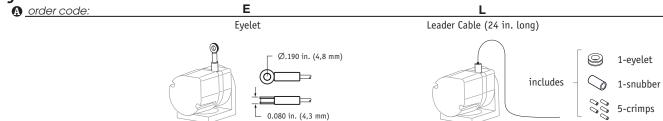
electrical connection: 15-ft cable w/end-mounted strain relief/aluminum cover

Full Stroke Ranae:

a

® _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: • order code:

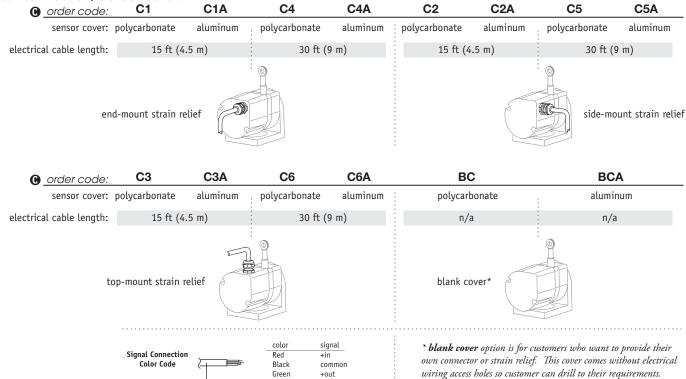


Measurina Cable Tension:

B <u>order code:</u>	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:



24 gauge, shielded

version: 9.0 last updated: November 15, 2012