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



shown with aluminum cover

GENERAL

Full Stroke Range Options	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	± 0.02% full stroke
Resolution	essentially infinite
Measuring Cable	Ø.019-in. nylon-coated stainless steel
Enclosure Material	anodized aluminum
Sensor Cover Options	aluminum or polycarbonate
Sensor	conductive plastic-hybrid potentiometer
Weight	0.5 lb. max.

ELECTRICAL

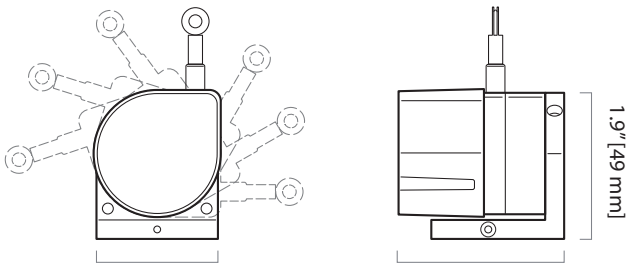
Input Resistance	10K ohms (± 10%)
Power Rating, Watts	2.0 at 158°F (70° C), derated to 0 @ 255°F (125°C)
Recommended Maximum Input Voltage	30V (AC or DC)
Electrical Stroke	94% ±4% of input voltage
Mating Plug	LEMO FGG.OB.304.CLAD52

MECHANICAL

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

ENVIRONMENTAL

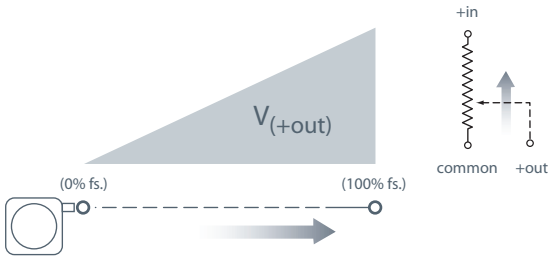
Enclosure	NEMA 4 / IP67
Operating Temperature	-40° to 250° F (-40° to 120°C)



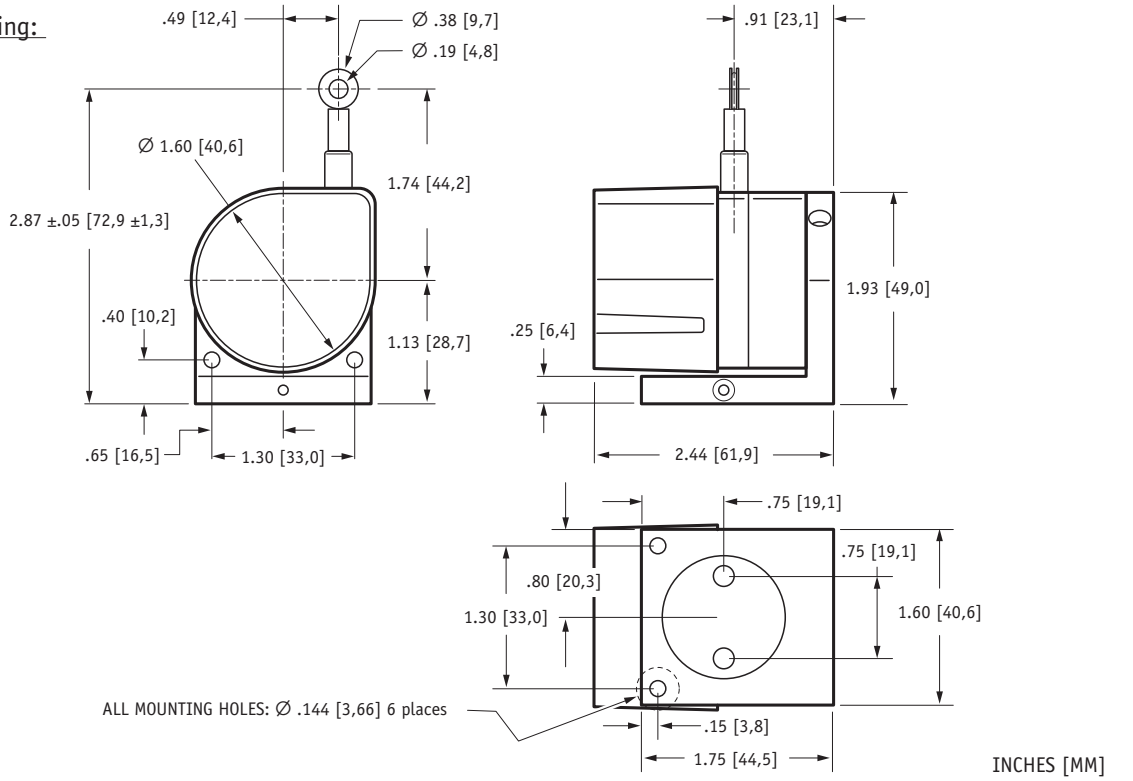
The MT3A is the solution for high-acceleration test applications in potentially wet environments. Just like the MT2A, the MT3A comes in 4 different full-stroke ranges, has a high-tension heavy-duty measuring cable designed for the demands of flight and automotive crash tests and comes with an easy to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



Outline Drawing:



INCHES [MM]

Ordering Information:

Model Number:

MT3A - ____ ____ - ____ - 10K - ____

order code: Ⓡ Ⓐ Ⓑ Ⓒ

Sample Model Number:

MT3A - 9E - 33 - 10K - C1A

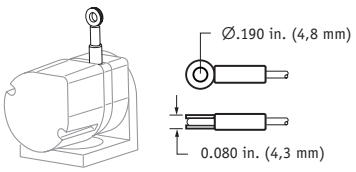
Ⓡ	range:	9 inches
Ⓐ	measuring cable termination:	eyelet
Ⓑ	measuring cable tension:	33 oz. (±6 oz.)
Ⓒ	electrical connection:	15-ft cable w/end-mounted strain relief/aluminum cover

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 x 10^6	8.3 x 10^5	5.0 x 10^5	2.5 x 10^5
accuracy (% of full stroke):	1.1 %	.25%	.20%	.15%

Measuring Cable Termination:

Ⓐ order code:	E	L
	Eyelet	Leader Cable (24 in. long)





Measuring Cable Tension:

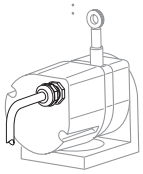
Ⓑ order code:	9	14	33
tension:	9 (±2) oz.	14 (±4) oz.	33 (±6) oz.
max. cable acceleration:	17 g	50 g	90 g

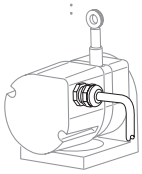
Ordering Information (cont.):

Electrical Connection/ Sensor Cover:

order code:	C1	C1A	C4	C4A	C2	C2A	C5	C5A
sensor cover:	polycarbonate	aluminum	polycarbonate	aluminum	polycarbonate	aluminum	polycarbonate	aluminum
electrical cable length:	15 ft (4.5 m)		30 ft (9 m)		15 ft (4.5 m)		30 ft (9 m)	

end-mount strain relief

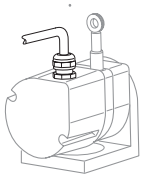




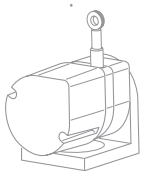
side-mount strain relief

order code:	C3	C3A	C6	C6A	BC	BCA
sensor cover:	polycarbonate	aluminum	polycarbonate	aluminum	polycarbonate	aluminum
electrical cable length:	15 ft (4.5 m)		30 ft (9 m)		n/a	n/a

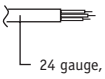
top-mount strain relief



blank cover*



Signal Connection Color Code



color	signal
Red	+in
Black	common
Green	+out

24 gauge, shielded

* ***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.*

INTERTECHNOLOGY INC.
1-800-465-1600

19 Waterman Ave.Toronto,Ont. M4B1Y2
Tel:416-445-5500 Fax: 416-445-1170
Toll Free: 1-800-465-1600
Email: sales@intertechnology.com
Website: www.intertechnology.com