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	0.15% 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 Optio	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), derated to 0 @ 255°F (125°		
Recommended Maximum Input Voltage 30		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)



shown with aluminum cover



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!



20630 Plummer Street • Chatsworth, CA 91311 tel: 800.423.5483 • +1.818.701.2750 • fax: +1.818.701.2799

measurement

celesco.com • info@celesco.com

SUNSTAR传感与控制 http://www.sensor-ic.com/ TEL:0755-83376549 FAX:0755-83376182 E-MAIL:szss200163.com MT3A | 1



Ordering Information:



Sample Model Number:

MT3A - 9E - 33 - 10K - C1A R range:

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

Full Stroke Ranae:

R _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%	

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Measuring Cable Termination:



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now part of Measurement Specialties, Inc.

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Ordering Information (cont.):

G _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)	
en	d-mount strain re	lief					side-mo	unt strain reli
• order code:	C3	СЗА	C6	C6A	BC		BCA	
sensor cover:	polycarbonate	aluminum	polycarbonate	aluminum	polycark	oonate	alumi	านm
electrical cable length:	15 ft (4.5 m)		30 ft (9 m)		n/a		n/a	
to	op-mount strain r	elief			blank co	over*		
		1	color sig Red +ir	nal		er option is for ci	ustomers who want to	provide their ithout electrical

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