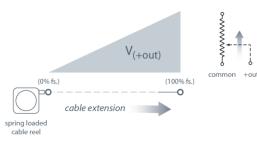




The MT3A is the solution for high-acceleration test applications in potentially wet environments. Just like the MT2A, the MT3A comes in 5 different full-stroke ranges, has a high-tension heavy-duty measuring cable designed for the demands of flight and automotive crash tests and comes with an easy to 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

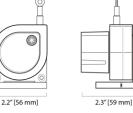


MT3A Cable Actuated Sensor Test Applications • Voltage Divider

Compact String Pot • Flight/Crash Test Applications Dual Axis 360° Mounting Bracket 3, 9, 15, 30 and 50-inch Stroke Range Options Wet Environments • Aluminum Enclosure







General

Full Stroke Range Options 0-3, 0-9, 0-15, 0-30, 0-50 inches, min.

Output Signal	voltage divider (potentiometer)
Accuracy	\pm 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	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

Mechanical

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

Environmental

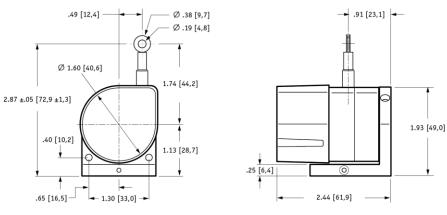
Enclosure	NEMA 4 / IP67				
Operating Temperature	-40° to 250° F (-40° to 120°C)				

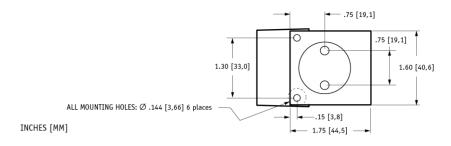
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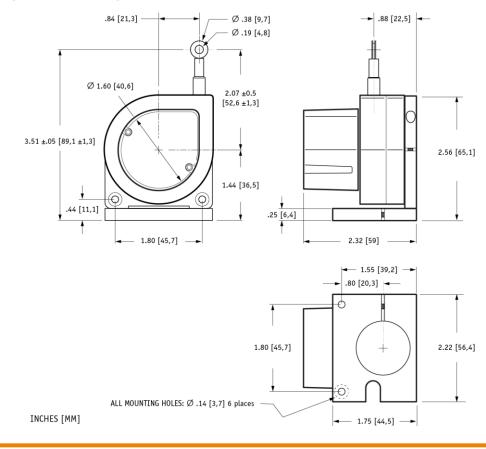


Outline Drawing (0-3 to 0-30-inch ranges)





Outline Drawing (0-50-inch range)



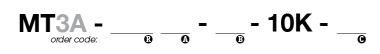
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Ordering Information

Model Number:



Sample Model Number:

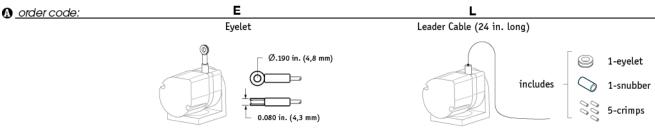
MT3A - 9E - 33 - 10K - C1A

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

Full Stroke Range:

Order code: Order	3	9	15	30	50
full stroke range, min:	3 inches	9 inches	15 inches	30 inches	50 inches
potentiometer cycle-life:	2.5 x 10 ⁶	8.3 x 10 ⁵	5.0 x 10 ⁵	2.5 x 10 ⁵	2.5 x 10 ⁵
accuracy (% of full stroke):	1.1 %	.25%	.20%	.15%	.15%

Measuring Cable Termination:



Measuring Cable Tension:

B order code:	9	14	33	
3, 9, 15, 30-in. range options:	9 (±2) oz.	14 (±4) oz.	33 (±6) oz.	
max. cable acceleration:	99 g	136 g	136 g	
B_order code:	9	22		
<u>order code:</u> 50-in. range options:	9 9 (±2) oz.	22 22 (±6) oz.		



• 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	9m)	15 ft (4	.5 m)	30 ft (9m)
end	l-mount strain re	elief					side-mo	ount strain relie
• order code:	C3	СЗА	C6	C6A	вс	>	BC	Α
sensor cover:	polycarbonate	aluminum	polycarbonate	aluminum	polycart	oonate	alumi	num
lectrical cable length:	15 ft (4	.5 m)	30 ft (9	∂m)	n/a	a	n/a	I
to	p-mount strain I	relief			blank co	over*		
	Signal Connection Color Code	╹┟══╾	Red +in	nal n mmon	own connecte	or or strain relief	ustomers who want to f. This cover comes w rr can drill to their re	ithout electrical

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