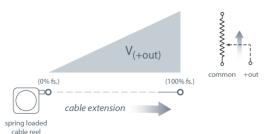


The MT3A is the solution for high-acceleration test applications in potentially wet environments. Just like the MT2A, the MT3A comes in 5 different full-stroke ranges, has a high-tension heavy-duty measuring cable designed for the demands of flight and automotive crash tests and comes with an easy to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

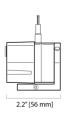
Compact String Pot • Flight/Crash Test Applications

Dual Axis 360° Mounting Bracket

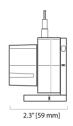
3, 9, 15, 30 and 50-inch Stroke Range Options

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 ± 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 30V (AC or DC)

Input Voltage

Electrical Stroke 94% ±4% of input voltage

Mechanical

Measuring Cable Tension 9, 14 and 33 oz.

Options

Maximum Measuring

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Cable Acceleration

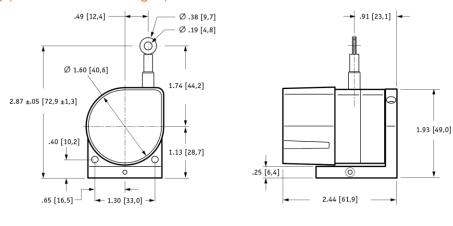
90 g

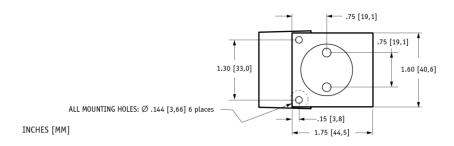
Environmental

Enclosure NEMA 4 / IP67

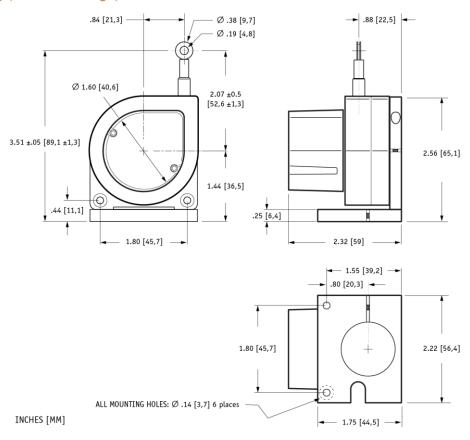
Operating Temperature -40° to 250° F (-40° to 120°C)

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

range:
measuring cable termination:
measuring cable tension:
electrical connection:

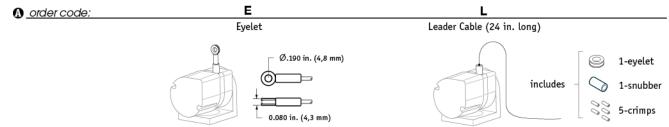
eyelet 33 oz. (±6 oz.)

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

Full Stroke Range:

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

Measuring Cable Termination:



Measuring Cable Tension:

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	
n order code:	9	22		
50-in. range options:	9 (±2) oz.	22 (±6) oz.		
max. cable acceleration:	46 a	68 a		

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Electrical Connection/ Sensor Cover: C4 C4A C2 C2A C5 C5A C1 • order code: aluminum polycarbonate polycarbonate sensor cover: polycarbonate aluminum polycarbonate aluminum 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 СЗА C6 C6A BC **BCA** СЗ @ order code: 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* color signal * blank cover option is for customers who want to provide their Signal Connection own connector or strain relief. This cover comes without electrical Color Code Black common wiring access holes so customer can drill to their requirements. +out 24 gauge, shielded

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