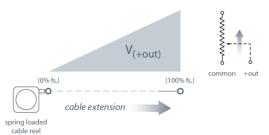




The MT3A is the solution for high-acceleration test applications in potentially wet environments. Just like the MT2A, the MT3A comes in 5 different full-stroke ranges, has a high-tension heavy-duty measuring cable designed for the demands of flight and automotive crash tests and comes with an easy to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

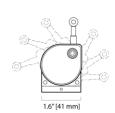
Cable Actuated Sensor Test Applications • Voltage Divider

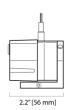
Compact String Pot • Flight/Crash Test Applications

Dual Axis 360° Mounting Bracket

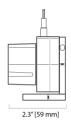
3, 9, 15, 30 and 50-inch Stroke Range Options

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 $\pm 0.02\%$ 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

Cable Acceleration

90 g

Environmental

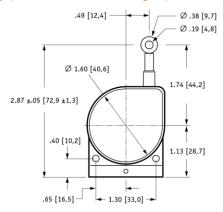
Enclosure NEMA 4 / IP67

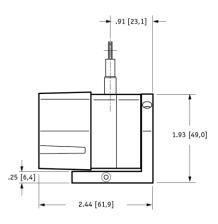
Operating Temperature -40° to 250° F (-40° to 120°C)

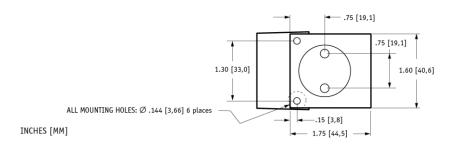
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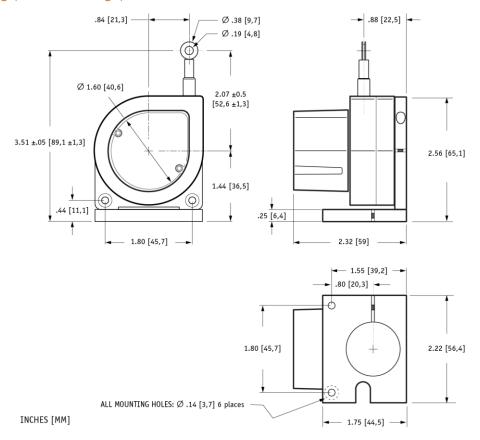
Outline Drawing (0-3 to 0-30-inch ranges)







Outline Drawing (0-50-inch range)



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Ordering Information

Model Number:

Sample Model Number:

MT3A - 9E - 33 - 10K - C1A

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

eyelet 33 oz. (±6 oz.)

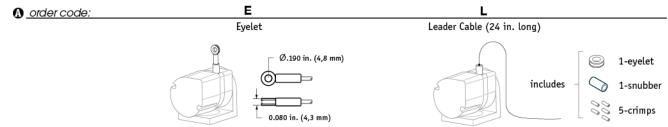
9 inches

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:

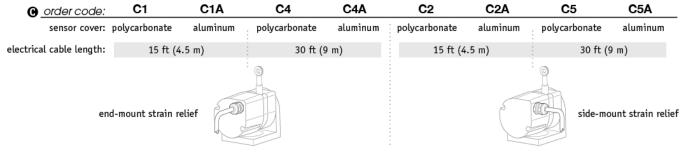


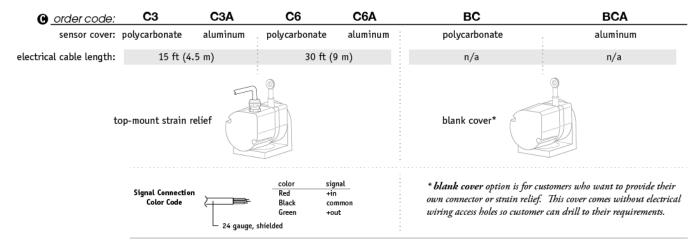
Measuring Cable Tension:

<u>order code:</u>	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	
Order code:	9	22		
50-in. range options:	9 (±2) oz.	22 (±6) oz.		

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Electrical Connection/ Sensor Cover:





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