

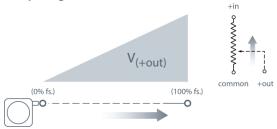


The MT2A is a member of our family of rugged, accurate miniature cable-extension position transducers designed specifically for test applications. One of the major benefits to this sensor is its 2-axis 360° rotating mounting bracket to allow for fast and simple installation in any direction.

The MT2A comes in 5 different measuring ranges: 0-3", 0-9", 0-15", 0-30", 0-50" and features a highlytensioned heavy-duty measuring cable designed for the high-acceleration demands encountered in flight testing and automotive crash tests.

For extreme impact applications, a new rugged all aluminum sensor cover is now available!

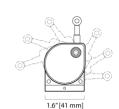
Output Signal



MT2A

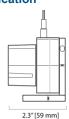
Cable Actuated Sensor Test Applications • Voltage Divider

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









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)

± 0.02% full stroke Repeatability 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 30V (AC or DC)

Maximum Input Voltage

Electrical Stroke 94% ±4% of input voltage **Mating Plug** LEMO FGG.OB.304.CLAD52

Mechanical

Measuring Cable Tension Options see ordering information

Maximum Measuring

136 g

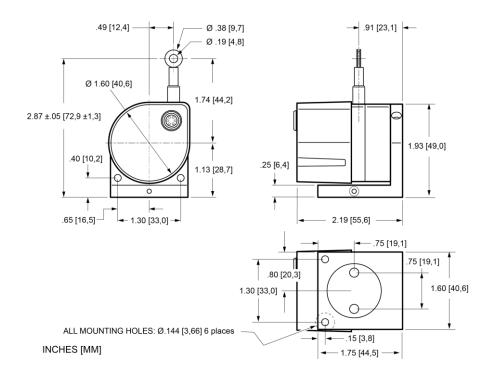
Cable Acceleration

Environmental

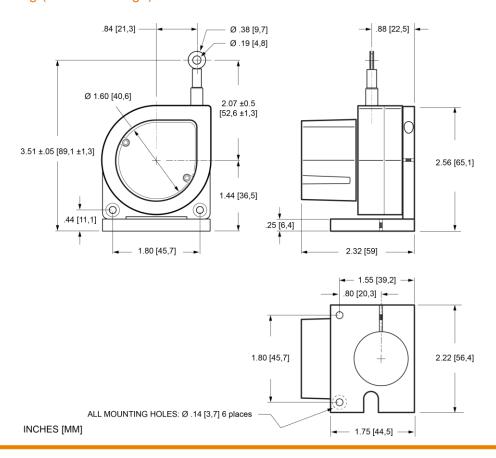
Operating Temperature -65° to 255° F (-55° to 125°C)

SENSOR SOLUTIONS /// MT2A 12//2015 Page 1

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



Outline Drawing (0-50 inch range)



Ordering Information

Model Number:

Sample Model Number:

MT2A - 9E - 33 - 10K - M1A

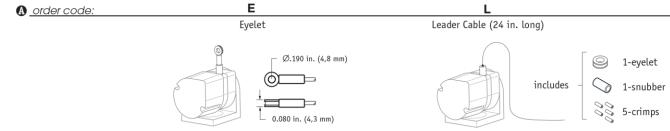
R range: 9 inches measuring cable termination:
measuring cable tension:
electrical connection: eyelet 33 oz. (±6 oz.)

end-mounted connector w/ aluminum sensor cover

Full Stroke Range:

® 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:

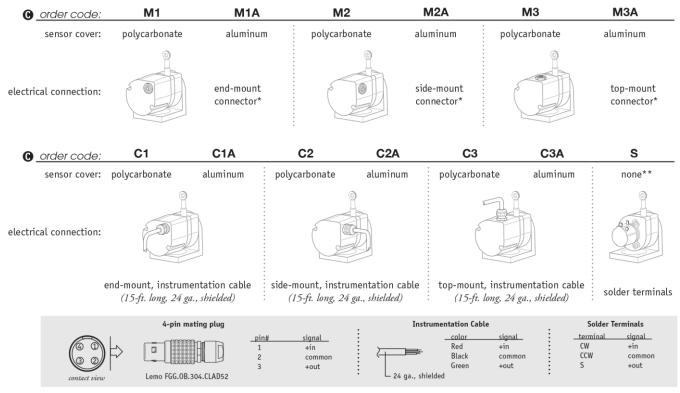


Measuring Cable Tension:

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	
norder code:	9	22		
50-in. range options:	9 (±2) oz.	22 (±6) oz.		
max. cable acceleration:	46 q	68 g		

SENSOR SOLUTIONS /// MT2A

Electrical Connection/ Sensor Cover:



*mating plug included **blank cover available, see Accessories on next page

Accessories



Part Number

Description

9603957-0015

15 ft. long cordset. Includes mating connector with 15 ft., 24 gauge, shielded multiconductor cable



Additional blank sensor covers can be ordered separately. This cover comes without electrical wiring access holes so customer can drill to their requirements.

Includes screws and gasket.

Part Number

Description

9604197-0000 9603958-0000 Aluminum sensor cover Polycarbonate sensor cover

SENSOR SOLUTIONS /// MT2A