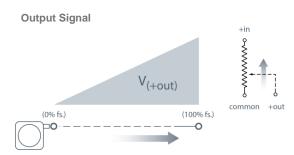




The MT2A is a member of our family of rugged, accurate miniature cable-extension position transducers designed specifically for test applications. One of the major benefits to this sensor is its 2-axis 360° rotating mounting bracket to allow for fast and simple installation in any direction.

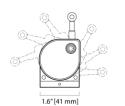
The MT2A comes in 5 different measuring ranges: 0-3", 0-9", 0-15", 0-30", 0-50" and features a highlytensioned heavy-duty measuring cable designed for the high-acceleration demands encountered in flight testing and automotive crash tests.

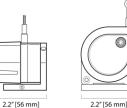
For extreme impact applications, a new rugged all aluminum sensor cover is now available!

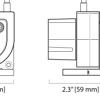


MT2A Cable Actuated Sensor Test Applications • Voltage Divider

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	\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 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 Maximum Input Voltage	30V (AC or DC)
Electrical Stroke	94% ±4% of input voltage
Mating Plug	LEMO FGG.OB.304.CLAD52

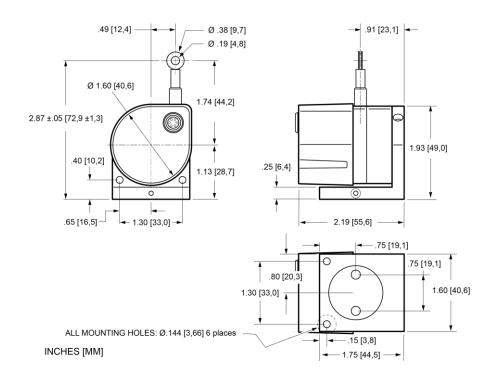
Mechanical

Measuring Cablesee ordering informationTension Options136 gCable Acceleration136 g

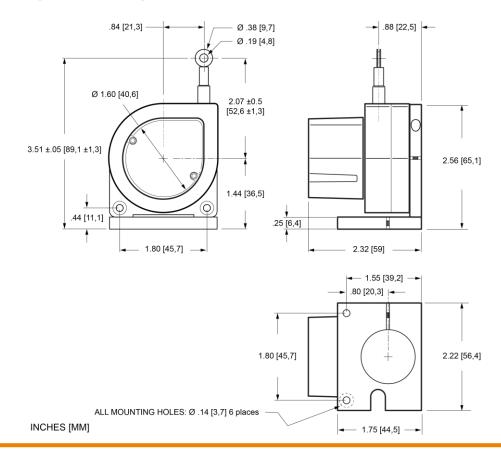
Environmental

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

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

 (i) range:
 9 inche

 (j) measuring cable termination:
 9 electrical connection:

 (j) electrical connection:
 9 enche

 (j) measuring cable tension:
 9 enche

 (j) measuring cable tension:
 9 enche

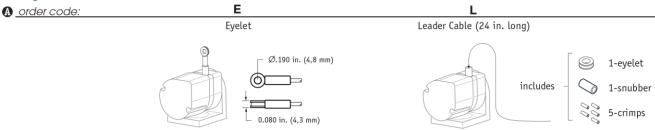
 (j) electrical connection:
 9 enche

9 inches eyelet 33 oz. (±6 oz.) end-mounted connector w/ aluminum sensor cover

Full Stroke Range:

B 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 x 10 ⁵	5.0×10^{5}	2.5 x 10 ⁵	2.5 x 10 ⁵
accuracy (% of full stroke):	1.1 %	.25%	.20%	.15%	.15%

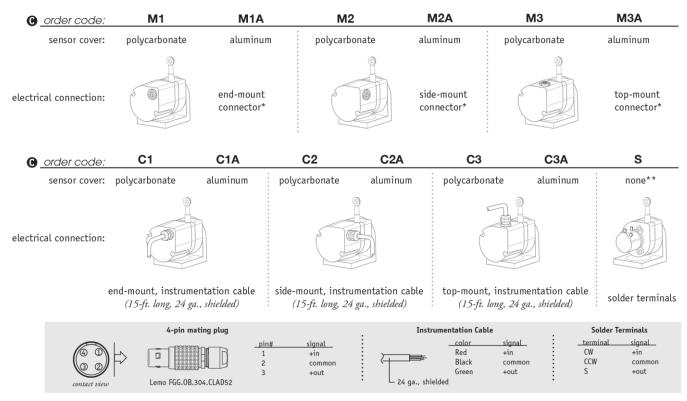
Measuring Cable Termination:



Measuring Cable Tension:

B <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	
i) order code:	9	22		
50-in. range options:	9 (±2) oz.	22 (±6) oz.		
max. cable acceleration:	46 g	68 g		

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

Part Number 9604197-0000 9603958-0000 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.

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

Description

Aluminum sensor cover Polycarbonate sensor cover