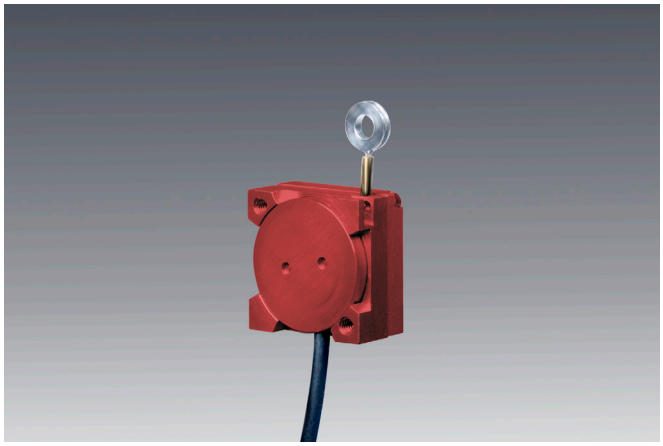
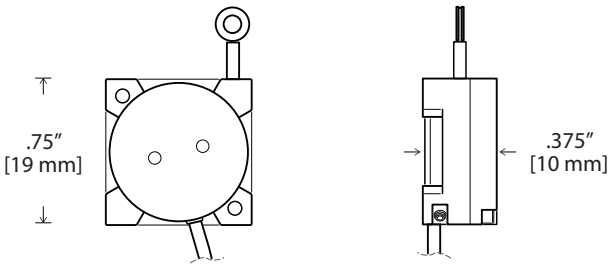
M150

World's Smallest Stringpot

Ultra Miniature String Pot • Voltage Divider Ouput
1½–inch Stroke Range
Precision High-Cycle Potentiometer
Designed for Test and Space-Critical Applications

CE





Introducing the world's smallest stringpot. The M150 is smaller than a thumbprint and occupies a tiny space of only .74 x .74 x .38 inches. With a full stroke measurement range of 1.5 inches, the M150 has been designed for many aerospace and automotive space-critical test applications such as throttle position and crash-test instrumentation.

The heart of the M150 is a precision high-cycle conductive plastic potentiometer that delivers a high-linearity voltage position feedback signal. With its rugged all aluminum construction, the M150 has been engineered for reliability and to provide quick, easy and hassle-free installation.

GENERAL

Full Stroke Range	0-1.5 inches
Output Signal Options	voltage divider (potentiometer)
Accuracy	± 1% full stroke
Resolution	essentially infinite
Sensitivity	897 – 924 mV/V full stroke
Measuring Cable	.014-inch dia. nylon-coated stainless steel
Measuring Cable Tension	4 oz. ±25%
Maximum Measuring Cable Acceleration	39 g
Enclosure Material	anodized aluminum
Sensor	conductive plastic precision potentiometer
Potentiometer Cycle Life	5 million cycles
Weight	0.5 oz. max.

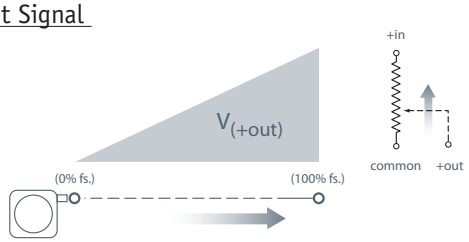
ELECTRICAL

Input Resistance	5K ±10% ohms
Recommended Output Signal Current	< 1µA
Recommended Maximum Input Voltage	20 VDC

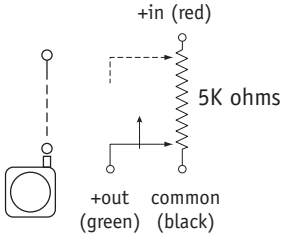
ENVIRONMENTAL

Enclosure	NEMA 12, IP 50
Operating Temperature	-40° to 185°F (-40° to 85°C)
Temp. Coefficient of Sensing Element	.0028%/°F (.005%/°C)
Vibration	up to 10 g at 30 – 2000 Hz max.

Output Signal



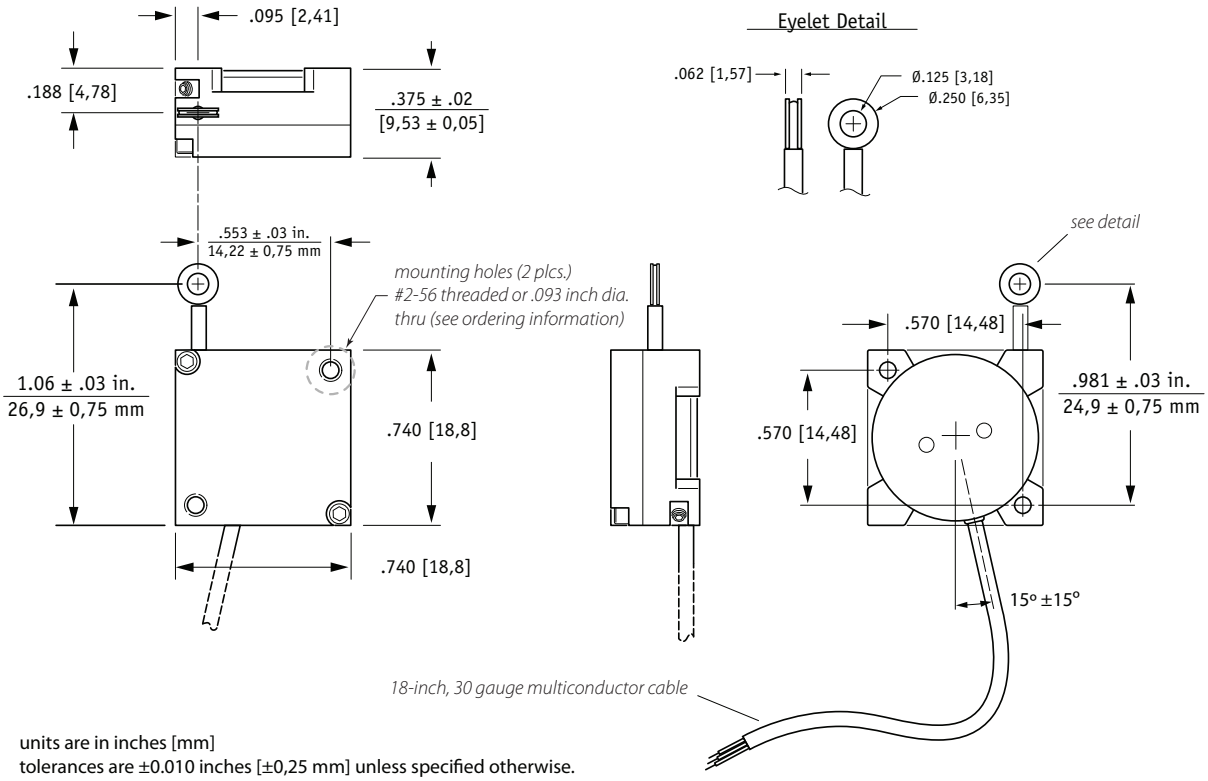
Electrical Connection



20630 Plummer Street • Chatsworth, CA 91311
tel: 800.423.5483 • +1.818.701.2750 • fax: +1.818.701.2799

celesco

Outline Drawing:



units are in inches [mm]
tolerances are ±0.010 inches [±0,25 mm] unless specified otherwise.

Ordering Information

Model Number:

M150 - 4 - ___ - ___ - 5K - C1
order code: Ⓐ Ⓑ

Sample Model Number:

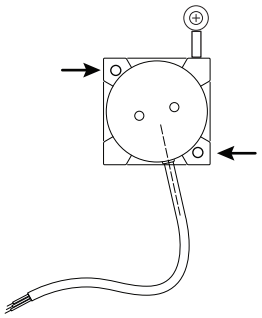
M150 - 4 - H1 - E - 5K - C1

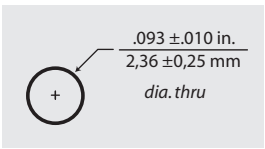
Ⓐ mounting hole style: .093 inch dia. thru
Ⓑ measuring cable termination: eyelet

Mounting Hole Style:

Ⓐ order code:

	H1	**H2***
	.093 thru	threaded





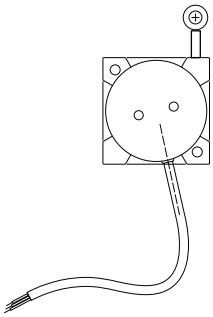


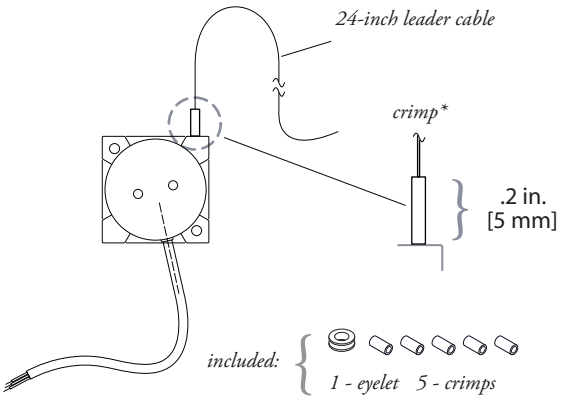
*–includes: 4) #2-56 x 3/8" pan head mounting screws with washers

Ordering Info (cont.):

Measuring Cable Termination:

Ⓑ order code:	**E**	**L**
	Eyelet	Leader Cable





**note: crimped stop prevents leader cable from retracting into sensor body*