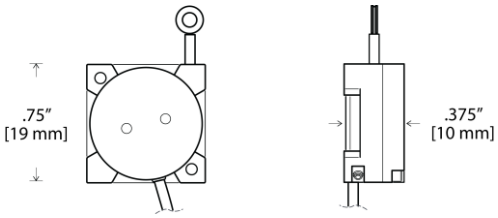


M150

World's Smallest Stringpot

Ultra-Miniature String Pot • Voltage Divider Output

1.5–inch Stroke Range

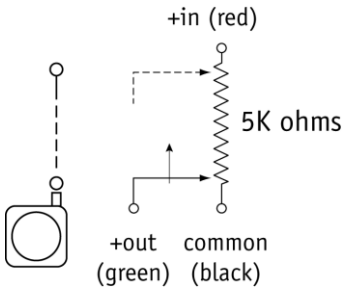
Precision High-Cycle Potentiometer

Designed for Test and Space-Critical Applications

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.

Electrical Connection



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.

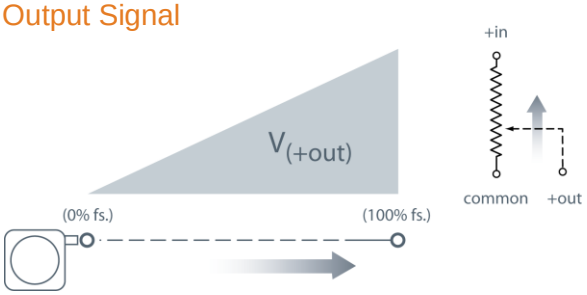
Electrical

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

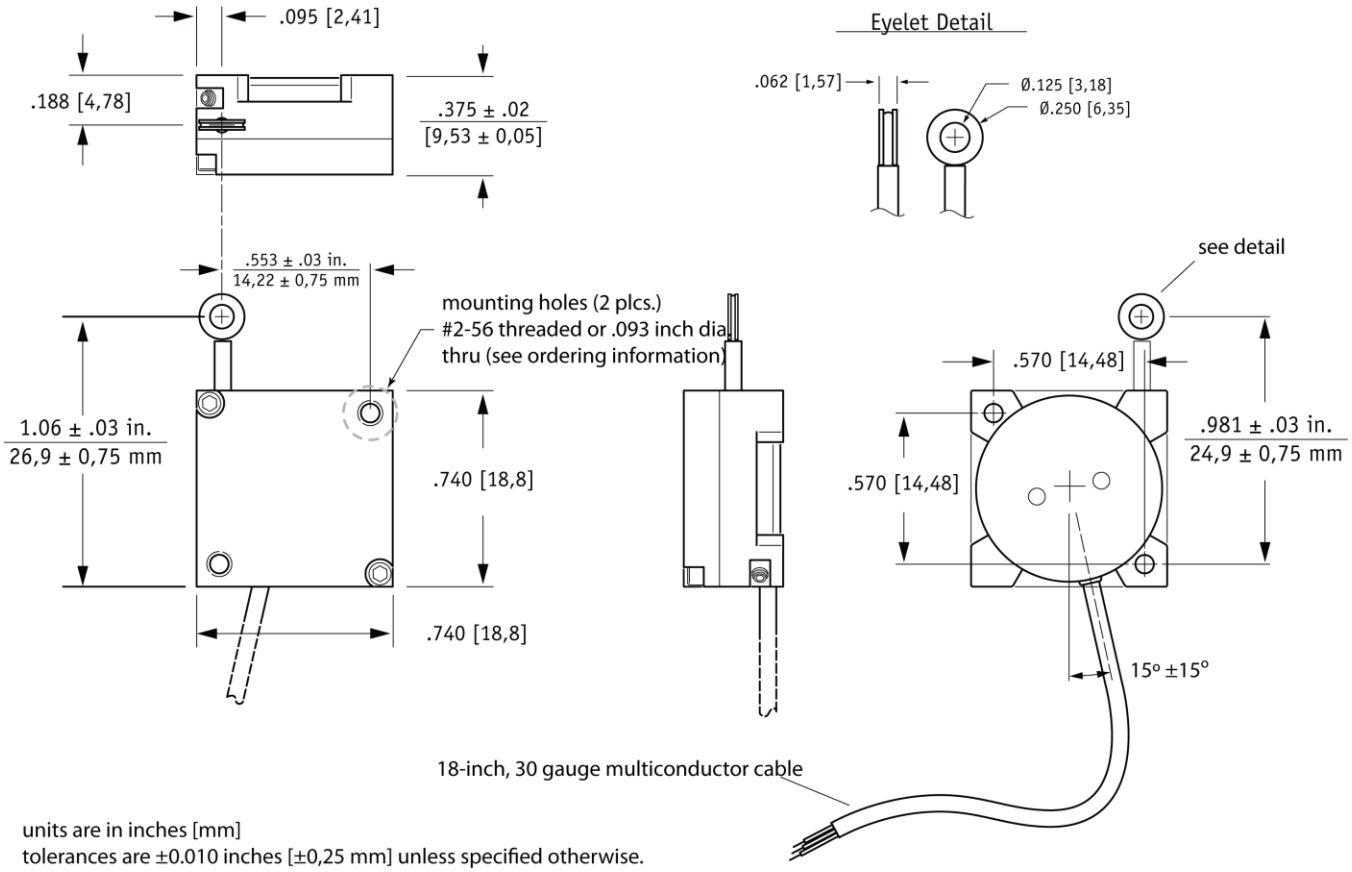
Environmental

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



Outline Drawing



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

Ordering Information

Model Number

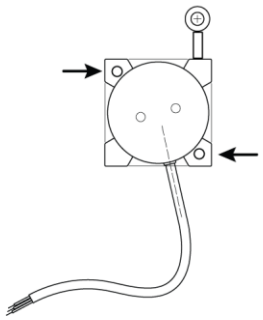
M150 - 4 - ___ - ___ - 5K - C1
order code: Ⓐ Ⓑ

Sample Model Number:
M150 - 4 - H1 - E - 5K - C1

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

Mounting Hole Style

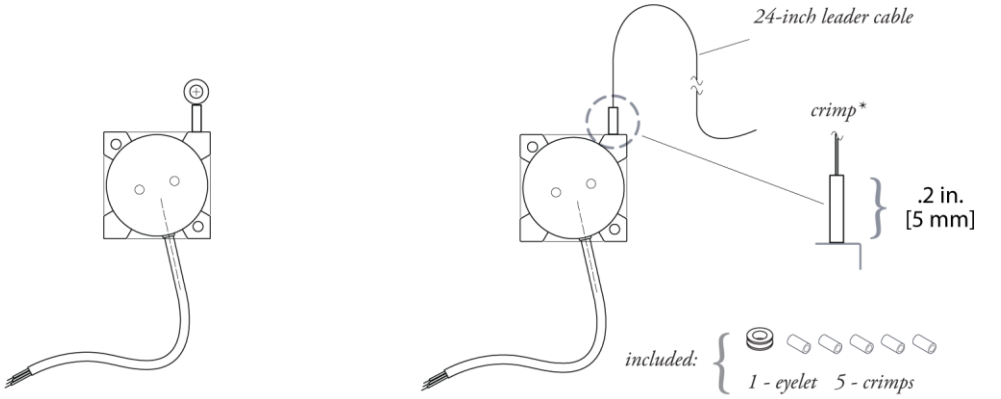
Ⓐ *order code:*	**H1**	**H2***
	.093 thru	threaded
	.093 ±.010 in. / 2,36 ±0,25 mm *dia. thru*	#2-56 threaded



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

Measuring Cable Termination

Ⓑ order code:	E	L
	Eyelet	Leader Cable



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

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