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**

- **5K ohms**
- **+in (red)**
- **-out common (black)**
- **+out (green)**

**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

Ordering Information

Model Number

M150 - 4 - - - 5K - C1

Mounting Hole Style

<table>
<thead>
<tr>
<th>H1</th>
<th>H2*</th>
</tr>
</thead>
<tbody>
<tr>
<td>.093 thru</td>
<td>threaded</td>
</tr>
<tr>
<td>.093 ± .010 in.</td>
<td>#2-56 threaded</td>
</tr>
<tr>
<td>2.36 ± 0.25 mm dio. thru</td>
<td></td>
</tr>
</tbody>
</table>

Sample Model Number:

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

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

*includes: 4) #2-56 x 3/8” pan head mounting screws with washers
Measuring Cable Termination

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M150 12/01/2015