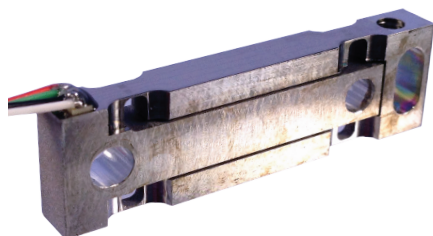




## S256 Low Range, Force Sensors



The **S256 Load Cell** uses proprietary sputtered thin film strain gauge technology to create a rugged sensor with exceptional long term stability. These sensitive gram range load cells are manufactured using state-of-the-art equipment. The compact sensor with it's integral overload protection scheme can be used to electronically measure force or displacement in a wide variety of applications.

### Product Specifications:

<b>Rated Output:</b>	1 mV/V Nominal
<b>Hysteresis:</b>	< 0.03% R.O.
<b>Non Repeatability:</b>	< 0.05% R.O.
<b>Creep (20 mins):</b>	< 0.05% R.O.
<b>Nonlinearity:</b>	< 0.05% R.O.
<b>Temperature Range:</b>	-10°C to 70°C
<b>Temp. Effect on Zero Balance:</b>	< 0.03% R.O./°C
<b>Temp. Effect on Span:</b>	< 0.03% Reading/°C
<b>Resistance:</b>	5 K $\Omega$ 1500 $\Omega$
<b>Excitation (Recommended):</b>	5 to 20 V ac / dc
<b>Zero Balance:</b>	1 mV / V
<b>Long Term Stability:</b>	< 0.01% R.O. / Year

<b>Rated Capacity:</b>	10 g	30 g	80 g
<b>Natural Frequency:</b>	158 Hz	208 Hz	348 Hz
<b>Part Name:</b>	S256-010	S256-030	S256-080

### Features:

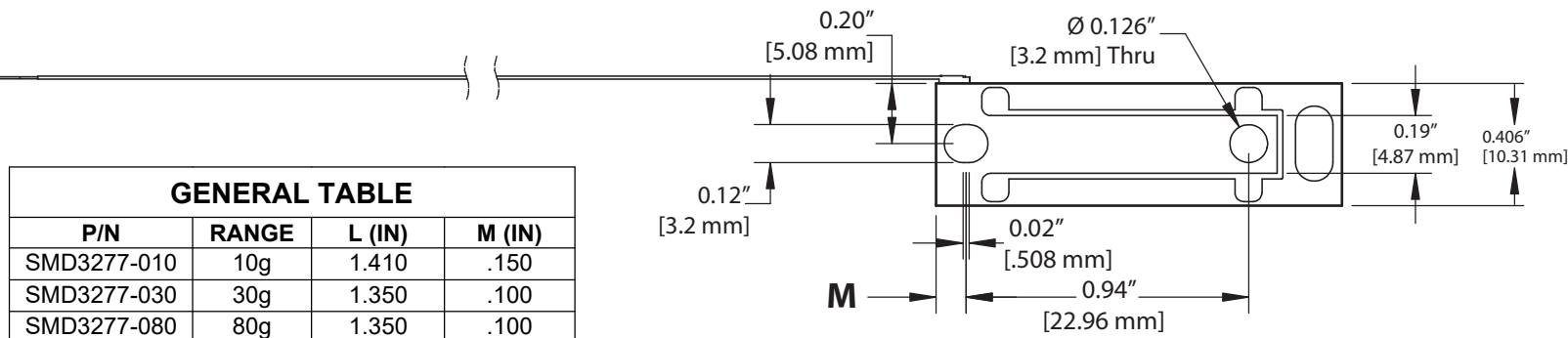
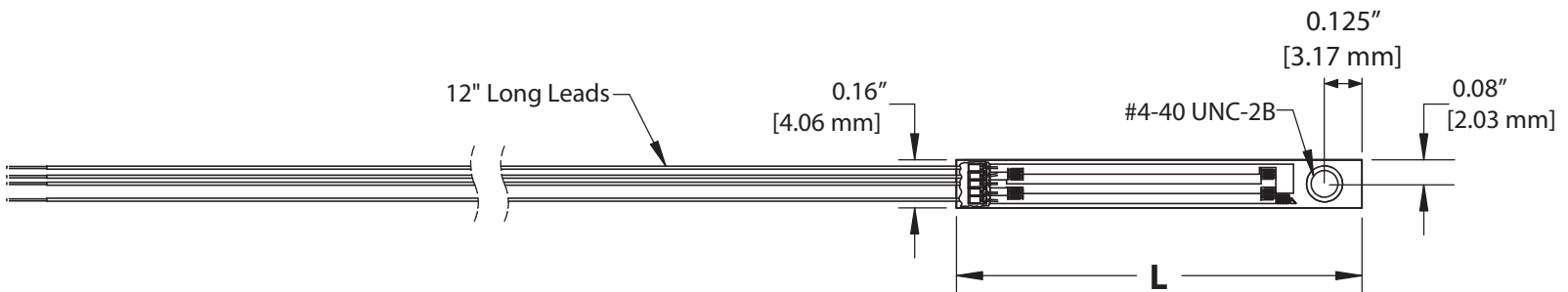
- Integral Tension
- Compression Overload Protection
- High, Long Term Zero Point Stability
- Ideally Suited for Low Force Apps
- Low Power Consumption
- Low Hysteresis

### Applications:

- Medical Instrumentation
- Force Displacement
- Battery Powered Equipment
- Robotics
- Laboratory Testing

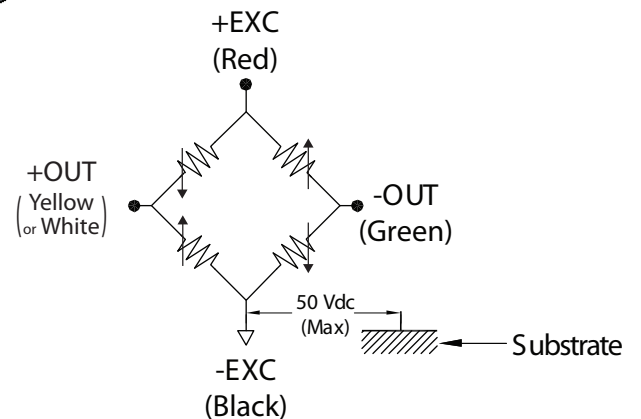
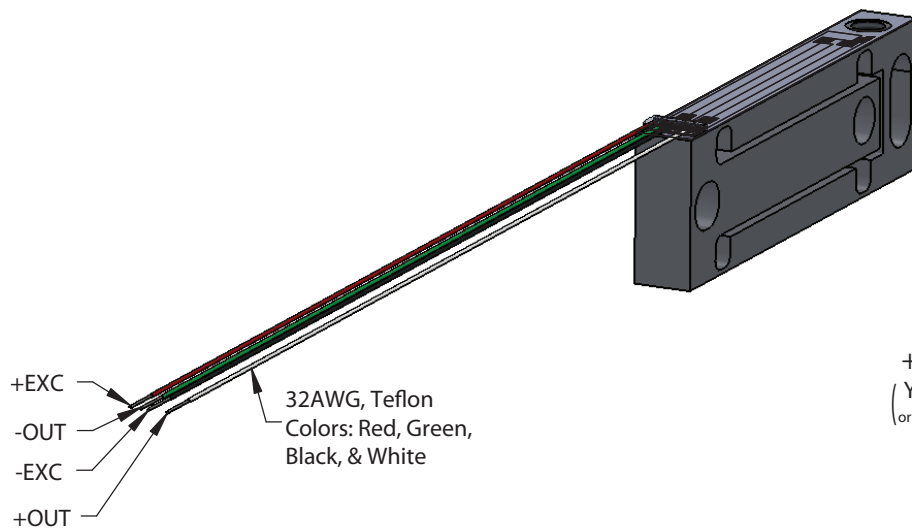


# STRAIN MEASUREMENT DEVICES



**GENERAL TABLE**

P/N	RANGE	L (IN)	M (IN)
SMD3277-010	10g	1.410	.150
SMD3277-030	30g	1.350	.100
SMD3277-080	80g	1.350	.100



USA  
Strain Measurement Devices  
55 Barnes Park North, Wallingford, CT 06492  
[sales@smdsensors.com](mailto:sales@smdsensors.com) | (203) 294-5800

Europe  
Strain Measurement Devices  
Bury Road, Chedburgh, Bury St Edmunds IP29 4UQ  
[sales@smdsensors.co.uk](mailto:sales@smdsensors.co.uk) | +44 (0)1284 852 000

[www.smdsensors.com](http://www.smdsensors.com)