

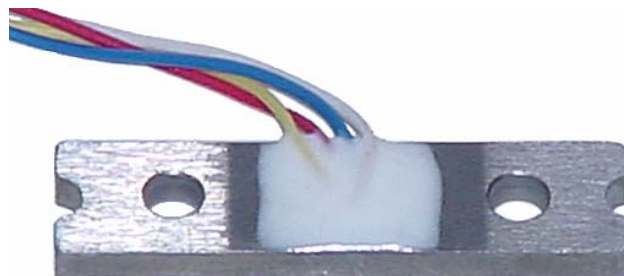
## Model 6010: Foil-Gauge, Planar-Beam Force Sensor

### Features:

- Measure force, pressure, displacement, or acceleration
- Thermally matched, fully active, full bridge gauge for optimum temperature tracking
- Custom designs for high volume OEM applications

### Description:

The Model 6010 sensor is designed to measure many different parameters found in medical instrumentation, home appliances, process control, robotics, and automotive systems, as well as other high volume OEM applications.



This sensor utilizes foil-gauge technology and advanced batch manufacturing techniques to produce a superior price to performance ratio. Typical applications include infusion pumps, scales, exercise equipment, and rehabilitation equipment.

### Electrical:

Excitation Voltage (Vdc or Vac, rms)	5 nominal, 6 maximum
Input Resistance (ohm)	350 $\pm$ 50
Output Resistance (ohm)	350 $\pm$ 50
Insulation Resistance (Mohm)	2000 min @ 50 Vdc
Bridge Configuration	Full Wheatstone Bridge
Electrical Connection	8" of Four 29 AWG Unshielded Cables

### Sensor Operating Characteristics:

Range (lbf)	50	100
Full Scale (mV/V)	1.6 $\pm$ 0.16	1.6 $\pm$ 0.16
Zero Balance (%FS) <sup>1</sup>	$\pm$ 1	$\pm$ 1
Static Accuracy (%FS) <sup>2</sup>	0.1	0.1
Safe Overload (%FS) <sup>3</sup>	150	150

### Environmental Effects:

Seal	Polyurethane Oligomer Mixture	
Operating Temperature Range	14° F to 122° F (-14° C to 50° C)	
Temperature Effect on		
Zero Balance (%FS/°F)	$\pm$ 0.012	$\pm$ 0.012
Full Scale (%FS/°F)	$\pm$ 0.006	$\pm$ 0.006

### Mechanical:

Material	Stainless Steel	
Thickness (in)	0.071	0.098

### Notes:

1. Zero balance may change with installation.
2. Static accuracy is the RSS of non-linearity, hysteresis, and non-repeatability.
3. Safe overload is guaranteed in reverse bending mode.



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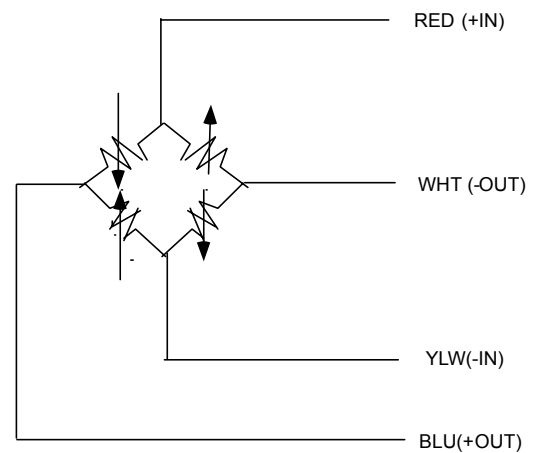
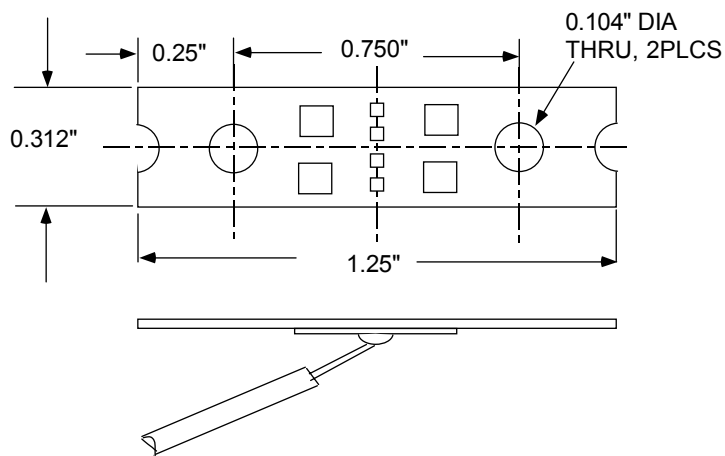
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**Model No.** 6010 - XXX

**Load Range**

050 = 50 lbf  
100 = 100 lbf



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