

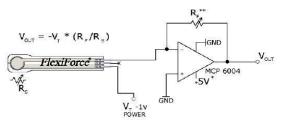
Substrate Polyester (ex: Mylar) Pin Spacing 2.54 mm (0.1 in.) \* Length does not include pins, please add 31.75 mm (0.25 in.) for pin length to equal a total length of 203.2 mm (8 in.).

## Standard Force Ranges (as tested with circuit shown below)

0 - 1 lb. (4.4 N) 0 - 25 lb. (110 N) 0 - 100 lb. (440 N)\*

In order to measure forces above 100 lb (up to 1000 lb), apply a lower drive voltage (-0.5 V, -0.10 V, etc.) and reduce the resistance of the feedback resistor ( $1k\Omega$  min.) Conversely, the sensitivity can be increased for measurement of lower forces by increasing the drive voltage or resistance of the feedback resistor.

## **Recommended** Circuit



- \* Supply Voltages should be constant \*\* Reference Resistance R<sub>p</sub> is 1kΩ to 100kΩ Sensor Resistance R<sub>p</sub> at no load is >5MΩ Max recommended current is 2.5mA

## **Typical Performance**

Linearity (Error)	< ±3%
Repeatability	$< \pm 2.5\%$ of full scale
Hysteresis	< 4.5 % of full scale
Drift	< 5% per logarithmic time scale
Response Time	< 5 sec

## **Evaluation Conditions**

Line drawn from 0 to 50% load Conditioned sensor, 80% of full force applied Conditioned sensor, 80% of full force applied Constant load of 25 lb (111 N) Impact load, output recorded on oscilloscope *Time required for the sensor to respond to an input force* 

**Operating Temperature** 15°F - 140°F (-9°C - 60°C) \*Force reading change per degree of temperature change =  $\pm 0.2\%$ /°F (0.36%/°C) \*\*For loads less than 10 lbs., the operating temperature can be increased to 165°F (74°C) High-temp model (HT201) available, functioning in environments up to 400°F (204°C)



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