FLEX SENSOR

Calibration Procedure

1

Minimum bending angle: Connect the sensor to the multi-meter, and position the sensor to the desired minimum bending angle (resting/flat state). Then measure the resistance.

2

Maximum bending angle: Bend the sensor to the maximum angle, as desired by your application. Then measure the resistance.

3

Calculate bending angle: Use the following equation to calculate the bending angle.

Example

Conditions

- Resistance measured at the minimum and maximum bending angle of the sensor is 100K Ohms and 200K Ohms respectively.
- ◆ The minimum and the maximum bending angles are 0° and 180° respectively.
- The sensor is bent to an angle (between minimum and maximum bending angles) and the multi-meter reading is 120K Ohms.

Solution

Bending Angle = 36°