Potentiometers Overview

The Potentiometer is used to measure the angular position of the axle or shaft passed through its center. The center of the sensor can rotate roughly 265 degrees and outputs values ranging from 0-1023 to the VEX PIC and 0-4095 to the VEX Cortex.

The Potentiometer can be attached to the robot using the mounting arcs surrounding the center of the sensor. The arcs provide flexibility for the orientation of the Potentiometer, allowing the full range of motion to be utilized more easily.

When mounted on the rotating shaft of a moving portion of the robot, such as an arm or gripper, the Potentiometer provides precise feedback regarding its angular position. This sensor data can then be used for accurate control of the robot.

CAUTION! When mounting the Potentiometer on your robot, ensure that the range of motion of the rotating shaft does not exceed that of the sensor. Failure to do so may result in damage to your robot and the Potentiometer.

Gear it Up
If the range of motion is too large for the Potentiometer, try developing a gear train that would allow you to measure the rotation of the shaft.

Note: Your sensor feedback will lose some resolution.