

3-Wire Motor

From VEX Wiki



Motors are devices that can transform electrical energy into mechanical energy. That is, they take electrical power, and create physical motion. Standard motors spin continuously at a given speed. In VEX, a motor is given a PWM signal between 0 and 255, where 0 is full reverse, 255 is full forward, and 126 is neutral.

Specifications

- Free Speed:100 rpm @ 7.5 volts
- Stall Torque:6.5 in-lbs
- Voltage:4.4 - 9.1 Volts (Motor life will be reduced operating outside this range)
- PWM Input:1ms - 2ms will give full reverse to full forward, 1.5ms is neutral
- Dead Band:1.47ms – 1.55m
- PWM Period: 20ms
- Black Wire:Ground
- Orange Wire:Power
- White Wire:PWM signal