

All interfaces operate with DC (fixed/PWM)

Setpoint/Feedback Potentiometer

- R - 10 k Ω
- V_{MAX} - 5.00 V
- V_{MIN} - 0 V

Microcontroller Analog Input

- V_{MAX} - 5.00 V
- ADC Sample Size - 1024

Microcontroller Digital Output

- Signal Type - PWM
- V_{HIGH} - 5.00 V
- V_{LOW} - 0 V
- I_{MAX} - 50 mA

L293 Power I/O

- $V_{CC2.MAX}$ - 36 V
- $|I_{PEAK.MAX}|$ - 2 A
- $|I_{CONT.MAX}|$ - 1 A

L293 Logic I/O

- $V_{CC1.MAX}$ - 7 V
- $V_{1A} - V_{CC1}$
- $V_{2A} - V_{CC1}$
- $V_{1,2EN} - V_{CC1}$

Motor Power Characteristics @ 6 V Supply

- $I_{MAX.FREE}$ - 50 mA
- $I_{MAX.STALL}$ - 500-600 mA

Microcontroller with MatLab

- Input:
 - V_{MAX} - 5.00 V
 - ADC Sample Size - 1024

Current Sensor

- Input:
 - V_{Max} - 60V (DC)
 - V_{Low} - 2.7V (DC)
 - V_{+} - 6V from Power Supply

- Output:
 - V_{out} - 0 ~ 5V (DC)