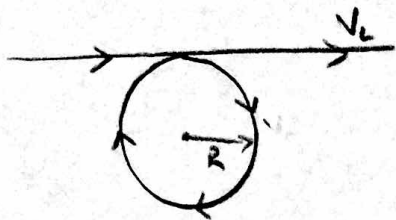


For calculating wire speed w/ rotary encoder.



Angular velocity

$$f = \frac{n}{N \cdot T}$$

n = number of up/down counts

N = number of up/down counts/rev

T = Sampling time

$$V_L = \omega r$$

$$\omega = 2\pi f$$

Linear Velocity

$$V = \omega r$$

$$V = \frac{2\pi n r}{N T}$$

For Sensoray 826

Max $T = 25 \text{ MHz}$

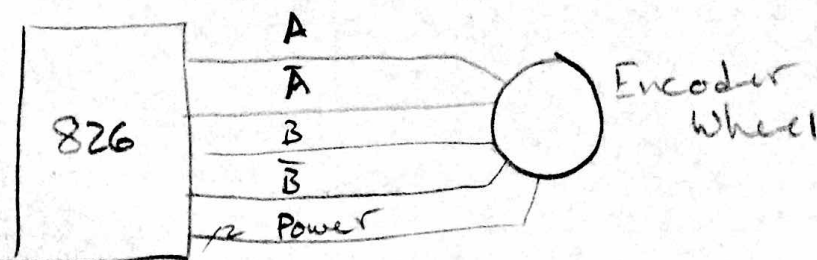
Connections to 826:

J4 Pin 1 +A0
 Pin 2 -A0
 Pin 3 GND Channel 0
 Pin 4 +B0
 Pin 5 -B0



Look at frequency measurement on Page 51

Connections



Use Differential winding for noise cancellation