int counter = 0;

int aState;

int aLastState;

void **setup**() {

pinMode (outputA,INPUT);

pinMode (outputB,INPUT);

Serial.begin (9600);

*// Reads the initial state of the outputA*

aLastState = digitalRead(outputA);

}

void **loop**() {

aState = digitalRead(outputA); *// Reads the "current" state of the outputA*

*// If the previous and the current state of the outputA are different, that means a Pulse has occured*

if (aState != aLastState){

*// If the outputB state is different to the outputA state, that means the encoder is rotating clockwise*

if (digitalRead(outputB) != aState) {

counter ++;

} else {

counter --;

}

Serial.print("Position: ");

Serial.println(counter);

}

aLastState = aState; *// Updates the previous state of the outputA with the current state*

}