Code:

void setup(){

pinMode(3,INPUT);

pinMode(4,INPUT);

pinMode(13,OUTPUT);

pinMode(2,OUTPUT);

Serial.begin(9600);

}

void loop(){

int state = digitalRead(3);

Serial.println(state);

if(state)

digitalWrite(13,LOW);

else

digitalWrite(13,HIGH);

digitalWrite(2,LOW);

digitalWrite(2,HIGH);

delayMicroseconds(10);

digitalWrite(2,LOW);

float dur = pulseIn(4,HIGH);

float dis = (dur\*0.0343)/2;

Serial.println(dis);

}

Diagram:

