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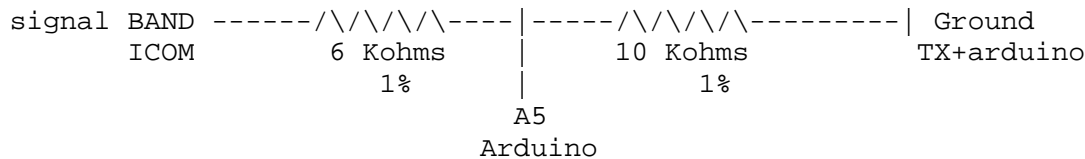
/* ICOM BANDES DECODEUR pour IC7300 et IC756pro3
programme original par 5B4WN , revue, adapté, réalisé par F6EIT
pour FILTRE PASSE-BAS 7 positions : 160 , 80 , 40 , 30-20 ,
17-15 , 12-10 , 6

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Signal BAND de l'ICOM varie suivant la bande choisie entre
0 volts et + 8 volts
L'Arduino supporte un signal maxi de + 5 volts en entrée

DONC

NE PAS OUBLIER LE DIVISEUR D'ENTREE 6 Kohms, 10 Kohms



Les valeurs de tensions ont été calculées avec ce diviseur 1%

*/

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int icomBandPin = 5; //Signal d'entrée BAND ICOM sur A5 arduino:
int sensedVoltage=0;
float calculatedVoltage=0;
int band=0;
int counter=0;
int previousValue=0;

int b160 = 12; //Sortie digitale sur D12:
int b80 = 11; //Sortie digitale sur D11:
int b40 = 10; // " " D10:
int b3020 = 9; // " " D9:
int b1715 = 8; // " " D8:
int b1210 = 7; // " " D7:
int b6 = 6; // " " D6:

void setup() {
pinMode(b160, OUTPUT);
pinMode(b80, OUTPUT);
pinMode(b40, OUTPUT);
pinMode(b3020, OUTPUT);
pinMode(b1715, OUTPUT);
pinMode(b1210, OUTPUT);
pinMode(b6, OUTPUT);
}
void loop() {
// lit la valeur Volt entrée BAND ICOM apres R1-R2 sur A5:
sensedVoltage = analogRead(icomBandPin);

//mesure 5 fois:
if (counter==5) {
calculatedVoltage = float(sensedVoltage)*5/1024;
setBand(calculatedVoltage);
delay (20);
} else {
if (abs(previousValue-sensedVoltage)>10) {

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        //nombre anormal ,on corrige
        previousValue=sensedVoltage;
    } else {
        counter++;
        previousValue=sensedVoltage;
    }
}
}
int setBand(float voltage) {
    int band=0;

    if (voltage>4.20 && voltage<4.70) {

        band=160;
        digitalWrite(b160,    HIGH);
        digitalWrite(b80,     LOW);
        digitalWrite(b40,     LOW);
        digitalWrite(b3020,   LOW);
        digitalWrite(b1715,   LOW);
        digitalWrite(b1210,   LOW);
        digitalWrite(b6,      LOW);

    } else if (voltage>4.00 && voltage<3.50) {
        band=80;
        digitalWrite(b80,     HIGH);
        digitalWrite(b160,    LOW);
        digitalWrite(b40,     LOW);
        digitalWrite(b3020,   LOW);
        digitalWrite(b1715,   LOW);
        digitalWrite(b1210,   LOW);
        digitalWrite(b6,      LOW);

    } else if (voltage>2.90 && voltage<3.30) {
        band=40;
        digitalWrite(b40,     HIGH);
        digitalWrite(b80,     LOW);
        digitalWrite(b160,    LOW);
        digitalWrite(b3020,   LOW);
        digitalWrite(b1715,   LOW);
        digitalWrite(b1210,   LOW);
        digitalWrite(b6,      LOW);

    } else if(voltage>2.30 && voltage<2.80) {
        band=3020;
        digitalWrite(b3020,   HIGH);
        digitalWrite(b40,     LOW);
        digitalWrite(b80,     LOW);
        digitalWrite(b160,    LOW);
        digitalWrite(b1715,   LOW);
        digitalWrite(b1210,   LOW);
        digitalWrite(b6,      LOW);

    } else if(voltage<0.60) {
        band=3020;
        digitalWrite(b3020,   HIGH);
        digitalWrite(b40,     LOW);
        digitalWrite(b80,     LOW);

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digitalWrite(b160,    LOW);
digitalWrite(b1715,   LOW);
digitalWrite(b1210,   LOW);
digitalWrite(b6,      LOW);

} else if(voltage>1.80 && voltage<2.20) {
    band=1715;
digitalWrite(b1715,   HIGH);
digitalWrite(b40,     LOW);
digitalWrite(b3020,   LOW);
digitalWrite(b80,     LOW);
digitalWrite(b160,    LOW);
digitalWrite(b1210,   LOW);
digitalWrite(b6,      LOW);

} else if(voltage>1.25 && voltage<1.60) {
    band=1210;
digitalWrite(b1210,   HIGH);
digitalWrite(b40,     LOW);
digitalWrite(b3020,   LOW);
digitalWrite(b1715,   LOW);
digitalWrite(b80,     LOW);
digitalWrite(b160,    LOW);
digitalWrite(b6,      LOW);

} else if(voltage>0.80 && voltage<1.20) {
    band=6;
digitalWrite(b6,      HIGH);
digitalWrite(b40,     LOW);
digitalWrite(b3020,   LOW);
digitalWrite(b1715,   LOW);
digitalWrite(b1210,   LOW);
digitalWrite(b80,     LOW);
digitalWrite(b160,    LOW);

}

return band;

}
```