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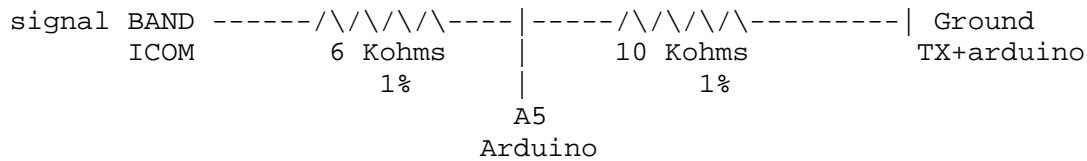
/* ICOM BANDES DECODEUR pour IC7300 et IC756pro3
programme original par 5B4WN , revue, adapté, réalisé par F6EIT
pour FILTRE PASSE-BAS 6 positions : 160-80 couplés , 40 , 30-20 ,
17-15 , 12-10 , 6 pour LPF RUSSE

```

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 a 1%

*/

```

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 b16080 = 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(b16080, OUTPUT);
pinMode(b40, OUTPUT);
pinMode(b3020, OUTPUT);
pinMode(b1715, OUTPUT);
pinMode(b1210, OUTPUT);
pinMode(b6, OUTPUT);
}

```

```

void loop() {

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// lit la valeur Volt entrée BAND ICOM apres R1-R2 sur A5:
sensedVoltage = analogRead(icomBandPin);

```

```

//mesure 5 fois:

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

```

```

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

if (voltage>3.50 && voltage<4.70) {

    band=16080;
digitalWrite(b16080, HIGH);
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(b16080, 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(b16080, LOW);
digitalWrite(b1715,  LOW);
digitalWrite(b1210,  LOW);
digitalWrite(b6,    LOW);

} else if(voltage<0.60) {
    band=3020;
digitalWrite(b3020,  HIGH);
digitalWrite(b40,    LOW);
digitalWrite(b16080, 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(b16080, LOW);
digitalWrite(b1210,  LOW);
digitalWrite(b6,    LOW);

} else if(voltage>1.25 && voltage<1.60) {

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```
    band=1210;
digitalWrite(b1210, HIGH);
digitalWrite(b40, LOW);
digitalWrite(b3020, LOW);
digitalWrite(b1715, LOW);
digitalWrite(b16080, 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(b16080, LOW);

}

return band;

}
```