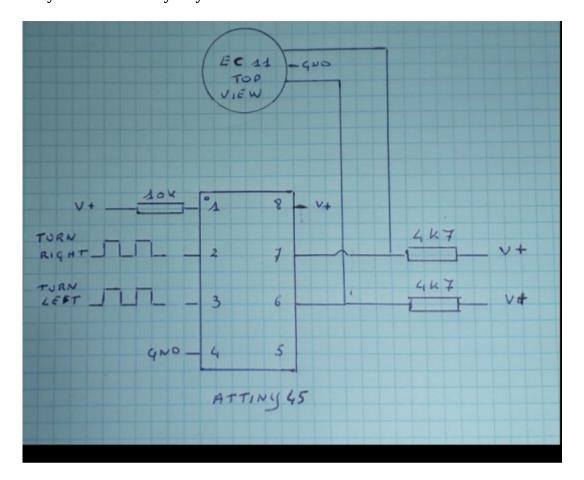
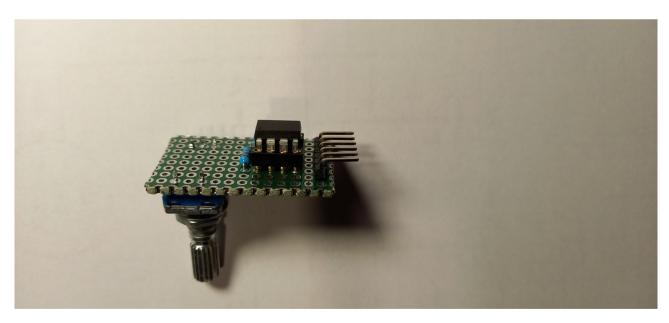
EC11 rotary encoder the easy way







what do we need

1x ATTINY452x 4K71x 10K

what do we get

1x pulse output when turning right 1x pulse output when turning left power supply 3.3V or 5V no extra capacitors or resistors no libraries works for slow and fast rotation cheap about 3€ easy to build

ATTINY45 program

```
bool input_1_bool;
bool input_2_bool;
bool input_1_vorig_bool;
void setup() {
 pinMode(1, INPUT);
 pinMode(2, INPUT);
 pinMode(3, OUTPUT);
 pinMode(4, OUTPUT);
void loop() {
 input_1_bool = digitalRead(1);
 input_2_bool = digitalRead(2);
 delay(2);
 if(input_1_bool == digitalRead(1)){
  if(input_1_bool != input_1_vorig_bool){
   if((!input_1_bool) && (!input_2_bool)){
    digitalWrite(3, true);
    delay(20);
    digitalWrite(3, false);
    delay(18);
   if((!input_1_bool) && (input_2_bool)){
    digitalWrite(4, true);
    delay(20);
    digitalWrite(4, false);
    delay(18);
   input_1_vorig_bool = input_1_bool;
 }
```

```
connect
ATTINY45 pin 2 with ESP32 GPIO26
ATTINY45 pin 3 with ESP32 GPIO27
```

ESP32 test program

```
int totaal_int = 0;
bool int_bool = false;
int totaal_int = 0;
bool int_bool = false;
void setup() {
 Serial.begin(230400);
 pinMode(26, INPUT);
 pinMode(27, INPUT);
 attachInterrupt(26, plus, RISING);
 attachInterrupt(27, min, RISING);
}
void loop() {
 if(int_bool){
  Serial.println(totaal_int);
  int_bool = false;
}
void plus(){
 totaal_int ++;
 int_bool = true;
void min(){
 totaal_int --;
 int_bool = true;
github
https://github.com/thieu-b55/EC11-rotary-encoder-the-easy-way
have fun,
thieu
```