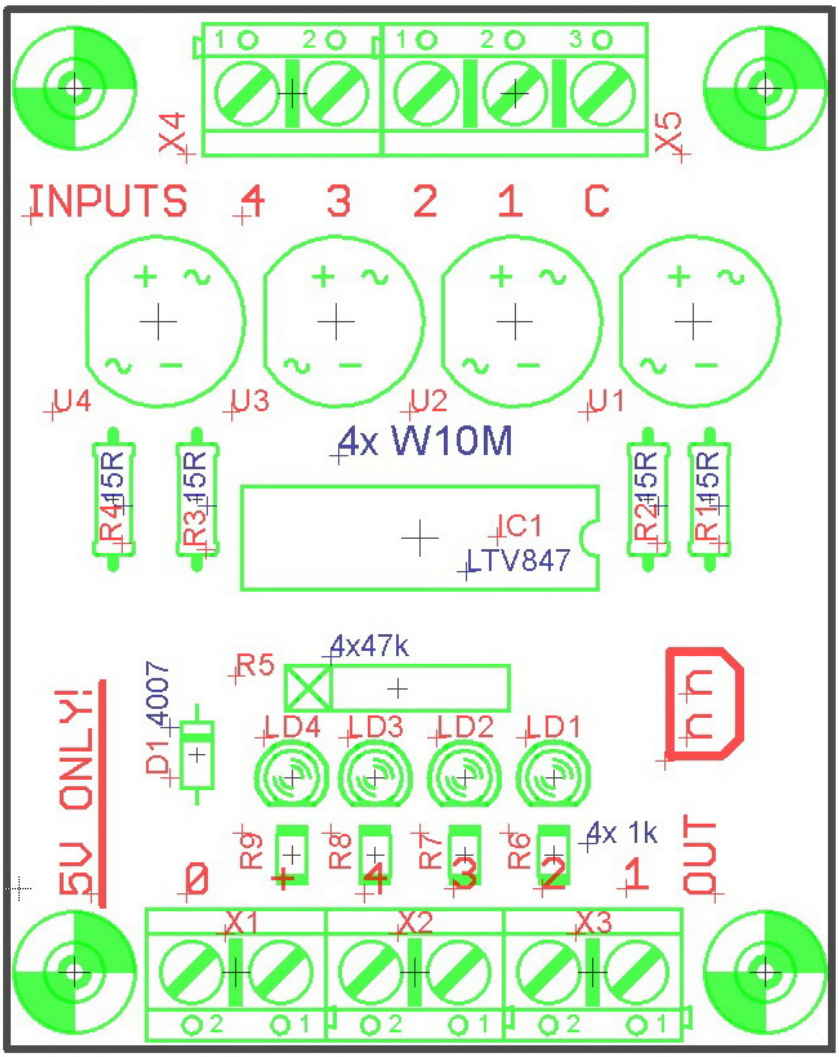
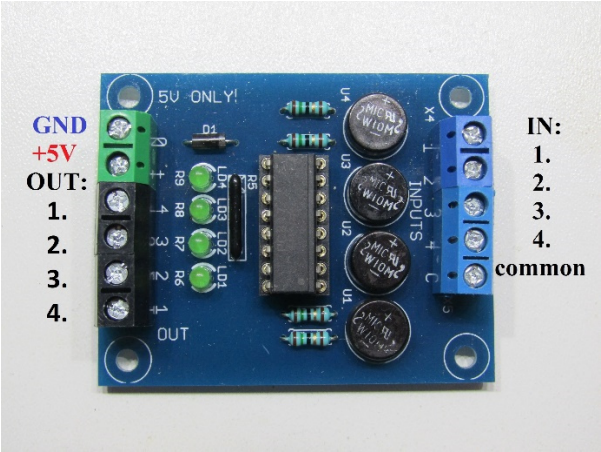
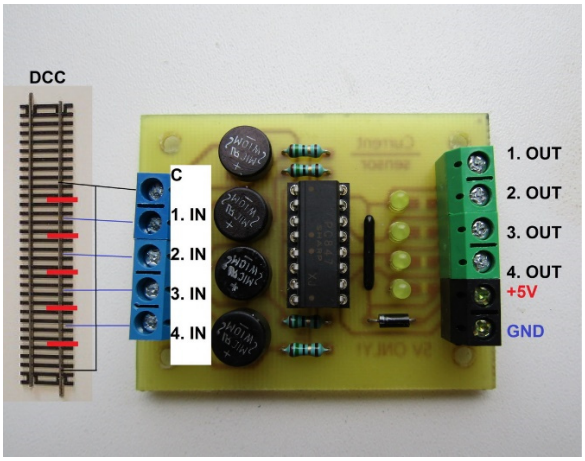
CURRENT SENSOR MODULE - DIY

R1 - R4	15R	4
R5	4x47k	1
R6 - R9	1k 1206	4
U1 - U4	W10M	4
D1	1N4007	1
IC1	LTV847	1
IC socket	IC1	1
LD1 - LD4	3 mm LED	4
X1 - X4	2 pin 5.0 mm terminal	4
X5	3 pin 5.0 mm terminal	1

Be on mind the IC sockets orientation! Power supply: 5V DC! (can be powered from Arduino board)
1500 mA max current sense per section.







ARDUINO SKETCH

```
int in1 = 8;    // choose your Arduino input
int in2 = 9;    // choose your Arduino input
int in3 = 10;  // choose your Arduino input

void setup() {

  pinMode(in1, INPUT_PULLUP);
  pinMode(in2, INPUT_PULLUP);
  pinMode(in3, INPUT_PULLUP);
  Serial.begin(9600);
}

void loop() {

  if (digitalRead(in1) == LOW) {  // if the section is occupied
    Serial.println("OUT1_ON");    // print text message
  }
  if (digitalRead(in2) == LOW) {
    Serial.println("OUT2_ON");
  }
  if (digitalRead(in3) == LOW) {
    Serial.println("OUT3_ON");
  }
}
```