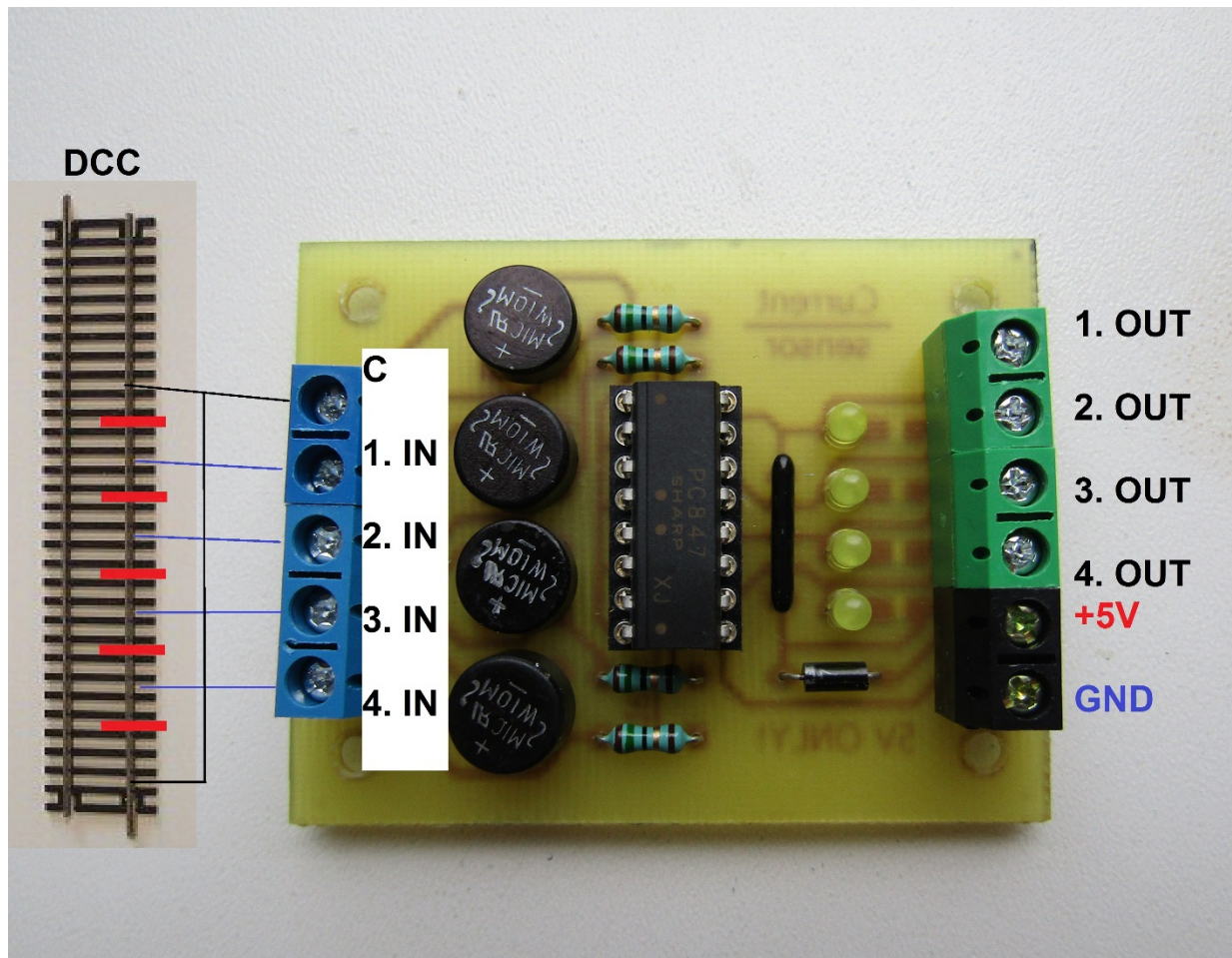


CURRENT SENSOR

- suitable to DC and DCC system as well
- 1A current each section
- 5V power supply with polarity change protection
- 4 independent sections
- 4 LEDs to display occupancy of sections
- 5V output (HIGH level)
- LOW output level (0V) if the section is occupied (current detected)
- suitable to control Arduino devices, Grade crossing controllers or display occupied sections
- easy to connect to Arduino family boards
- Arduino setup: `if (digitalRead (input_pin) == LOW) - {do something};`
- integrated pull-up resistors
- output voltage 5V, current 50 mA



ARDUINO SKETCH

```
// Current Sensor Arduino Sketch
// Szabi 2021
// https://www.dcc-decoders.com/

int input1 = 2; // hook up Output 1 from the Current Sensor board
int out1 = 3;   // manage your output pin of the Arduino

void setup() {

  pinMode(input1, INPUT_PULLUP);
  pinMode(out1, OUTPUT);
}

void loop() {

  if (digitalRead(input1) == LOW) { // if current is detected...
    digitalWrite(out1, LOW);       // ... the Out1 goes to level LOW
  } else {                          // if current is not detected...
    digitalWrite(out1, HIGH);      // ... the Out1 goes to level HIGH
  }
}
```