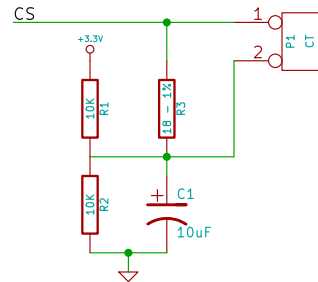
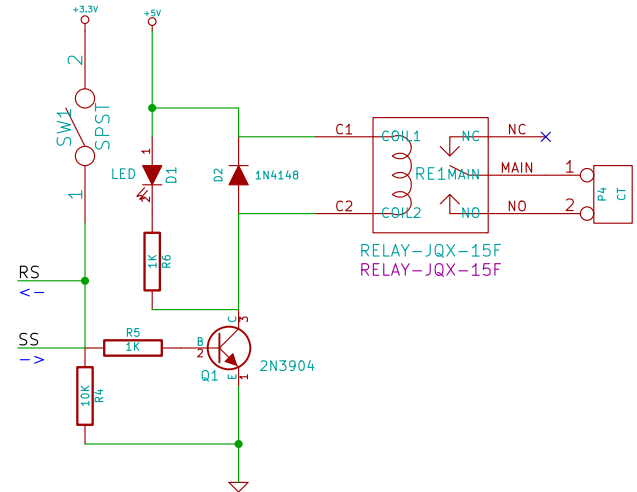


Current sensor

The diagram illustrates a current sensor circuit. A green line labeled 'CS' represents the current to be measured. This current flows through a shunt resistor $R1$ (10K). The voltage drop across $R1$ is measured by an op-amp configured as a voltage follower. The op-amp's non-inverting input (+) is connected to the node between $R1$ and $R2$. The inverting input (-) is connected to the node between $R2$ and $R3$. A feedback capacitor $C1$ (10uF) is connected between the op-amp's output and its inverting input. The op-amp's output is connected to the non-inverting input. The op-amp is powered by a +3.3V supply and ground. The output of the op-amp is connected to a load, represented by a box labeled 'P1' and 'CT'.



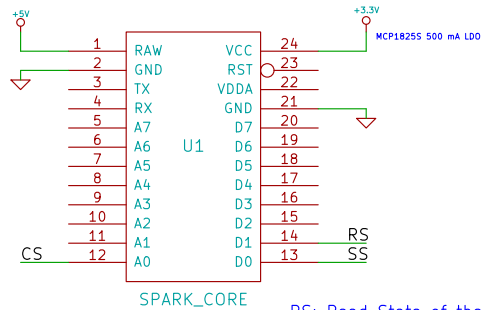
Relay control



Spark Core

Spark Core

RS: Read State of the relay.
SS: Set State of the relay.
CS: Current Sense.



RS: Read State of the relay.
SS: Set State of the relay.
CS: Current Sense.

Support holes

The diagram illustrates the support structure for power cables and mounting holes. It features two sets of symbols: a red 'X' connected to a red circle, and a red circle connected to a green label. The first set is labeled 'ZIP tie for power cables' and includes labels P2 and P3. The second set is labeled 'Mounting holes' and includes labels P5, P6, P7, and P8.

ZIP tie for power cables

Mounting holes

- ZIP tie for power cables
- P2
P3
- P5
P6
P7
P8
- Mounting holes