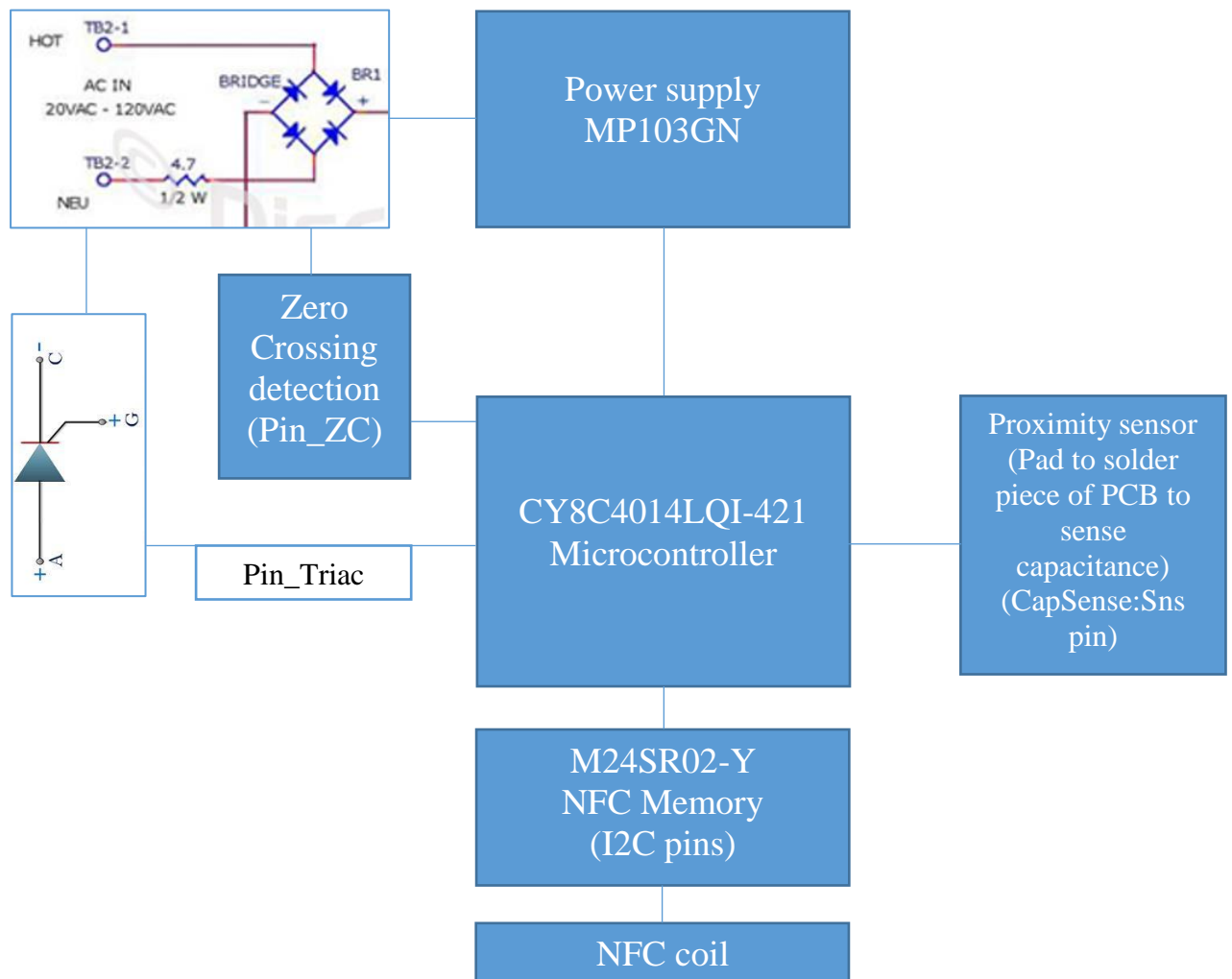
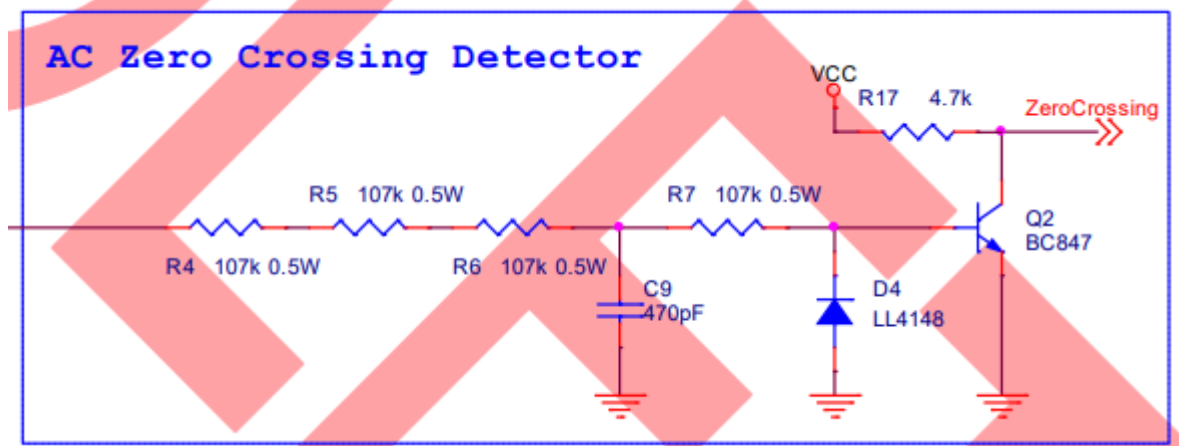


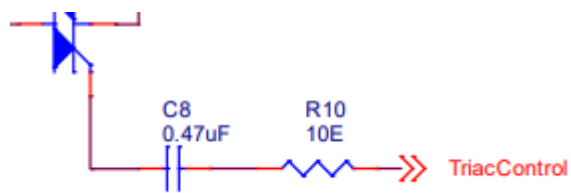
1. Design done in KiCAD
2. 230V input MP103GN based AC-DC 5V power supply
3. CY8C4014LQI-421 IC controls thyristor state + Capacitive Sensing connection
4. Zero crossing detection connected to CY8C4014LQI-421
5. M24SR02-Y (TSSOP8 package) NFC IC, connected to CY8C4014LQI-421 via I2C
6. PCB size: width 14mm, length ≤ 55 mm



Functional diagram



Zero Crossing detection



Thyristor gate control circuit

