Appendix

Relay vs Switch

1. The switch does not have to be manually adjusted
2. Two switches are switched simultaneously (one is closed and one is open in common relays)
3. The two circuits connected with each switch are unrelated and can have different power supplies, currents and voltages. This means a circuit with components that have low optimal operating specifications can be used to activate the relay’s magnetic coil, which closes the switch of a circuit with greater power, currents and voltages.

In this design, the relay can close the switch to a circuit with a motor for two fans, which can have a large power supply, while the components with temperature sensors have a comparatively small supply that keeps the components in their safe operating conditions.