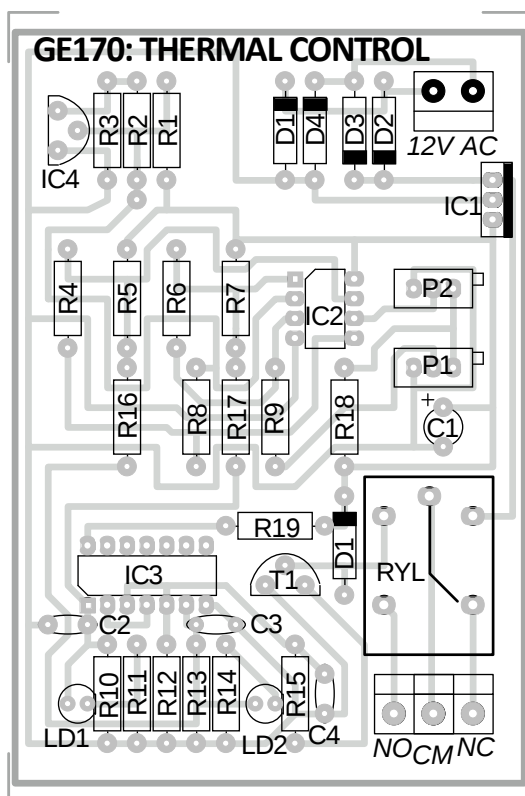
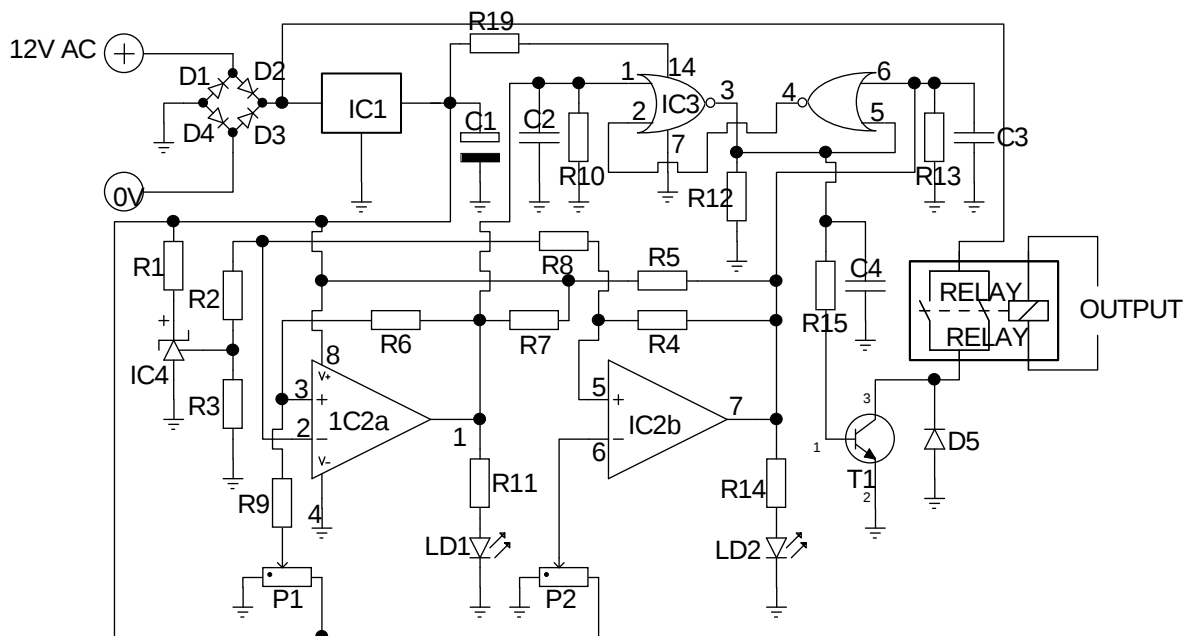


THERMAL CONTROL

GE 170



Bill of materials:

- * R1 : 5.6 KOhm (GREEN-BLUE-RED)
- * R2-R3 : 22 KOhm (RED-RED-ORANGE)
- * R4-R6 : 10 MOhm (BROWN-BLACK-BLUE)
- * R5-R7 : 3.3 KOhm (ORANGE-ORANGE-RED)
- * R8-->R10 : 10 KOhm (BROWN-BLACK-ORANGE)
- * R12-R13 : 10 KOhm (BROWN-BLACK-ORANGE)
- * R11-R14 : 3.3 KOhm (ORANGE-ORANGE-RED)
- * R15 : 560 Ohm (GREEN-BLUE-BROWN)
- * R16-->R18 : 0 Ohm (BLACK)
- * R19 : 2 KOhm (RED-BLACK-RED)
- * C1 : 100 uF/25V (ELECTROLYTIC CAPACITOR)
- * C2-->C4 : 100 nF/50V <104> (CERAMIC CAPACITOR)
- * D1-->D5 : 1N4001 (DIODE)
- * T1 : 2SC945 (NPN TRANSISTOR)
- * IC1 : LM7810 (VOLTAGE REGULATOR)
- * IC2 : LM393 (DUAL OPAMP)
- * IC3 : CD4001 (QUAD 2-INPUT NOR GATES)
- * IC4 : LM335 (TEMPERATURE SENSOR)
- * IC SUPPORT (14 PINS)
- * IC SUPPORT (8 PINS)
- * LD1 : LED (5MM GREEN)
- * LD2 : LED (5MM RED)
- * RYL : 12V DC RELAY
- * 2 SCREW JUNCTION
- * 3 SCREW JUNCTION

NOTE:

- 1- Remove IC4, R1, R2, R3 when connecting this kit to the digital thermometer kit (GE147).
 - 2- Connect PIN (E) with a wire in both circuits in addition to the source wires. Be aware of the polarity.
 - 3- LD2 lights when the HI-level is reached (set by P2)
LD1 lights when the low-level is reached (set by P1)
Due to the margin between levels, both LEDs should not light together.
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