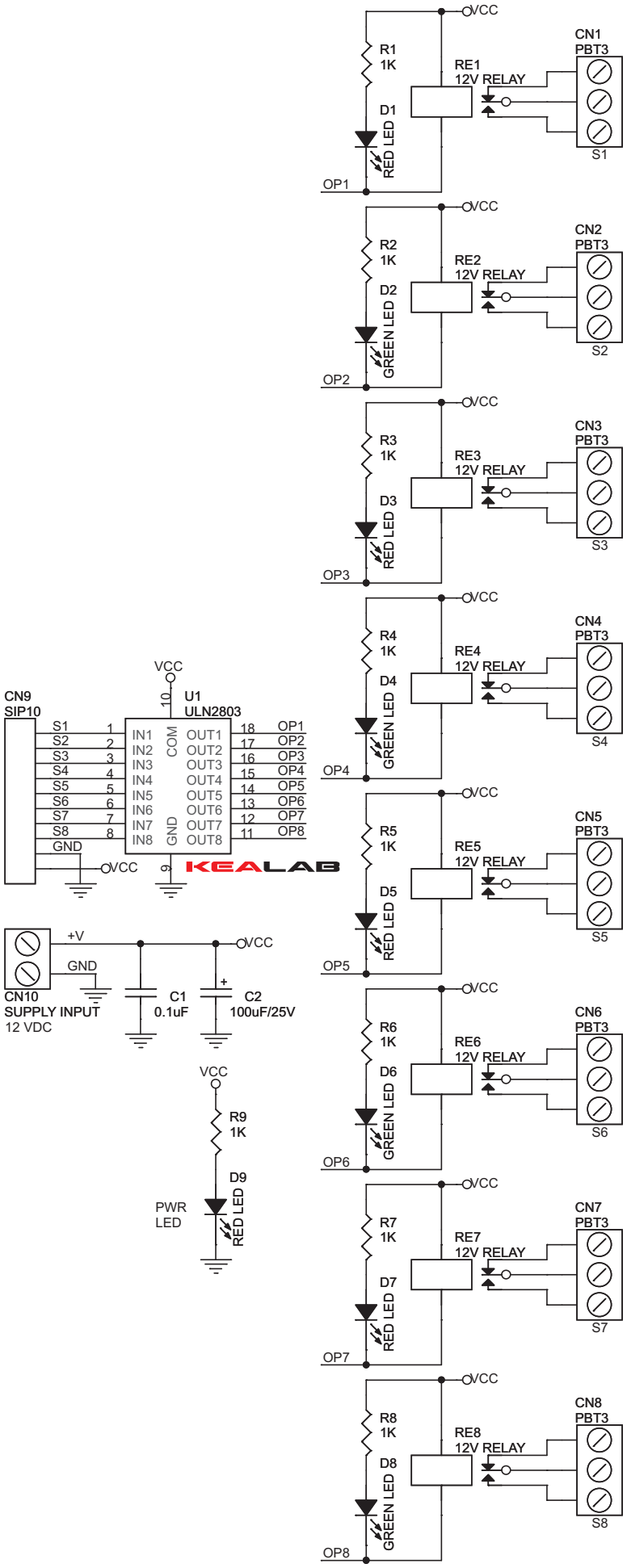
VCC
R1
1K
D1
RED LED
OP1
RE1
12V RELAY
CN1
PBT3
S1
R2
1K
D2
GREEN LED
OP2
RE2
12V RELAY
CN2
PBT3
S2
R3
1K
D3
RED LED
OP3
RE3
12V RELAY
CN3
PBT3
S3
R4
1K
D4
GREEN LED
OP4
RE4
12V RELAY
CN4
PBT3
S4
R5
1K
D5
RED LED
OP5
RE5
12V RELAY
CN5
PBT3
S5
R6
1K
D6
GREEN LED
OP6
RE6
12V RELAY
CN6
PBT3
S6
R7
1K
D7
RED LED
OP7
RE7
12V RELAY
CN7
PBT3
S7
R8
1K
D8
GREEN LED
OP8
RE8
12V RELAY
CN8
PBT3
S8
CN9
SIP10
S1
S2
S3
S4
S5
S6
S7
S8
GND
U1
ULN2803
IN1
IN2
IN3
IN4
IN5
IN6
IN7
IN8
COM
GND
OUT1
OUT2
OUT3
OUT4
OUT5
OUT6
OUT7
OUT8
KEALAB
+V
GND
CN10
SUPPLY INPUT
12 VDC
C1
0.1uF
C2
100uF/25V
R9
1K
D9
PWR
LED
RED LED