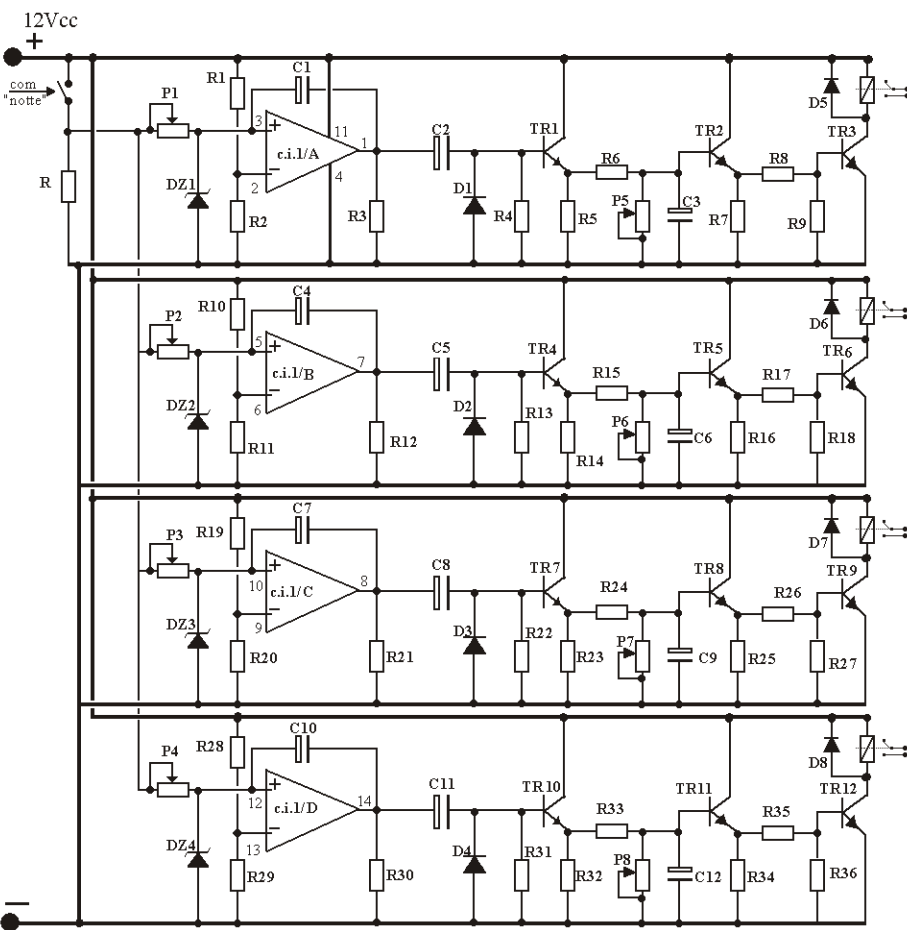


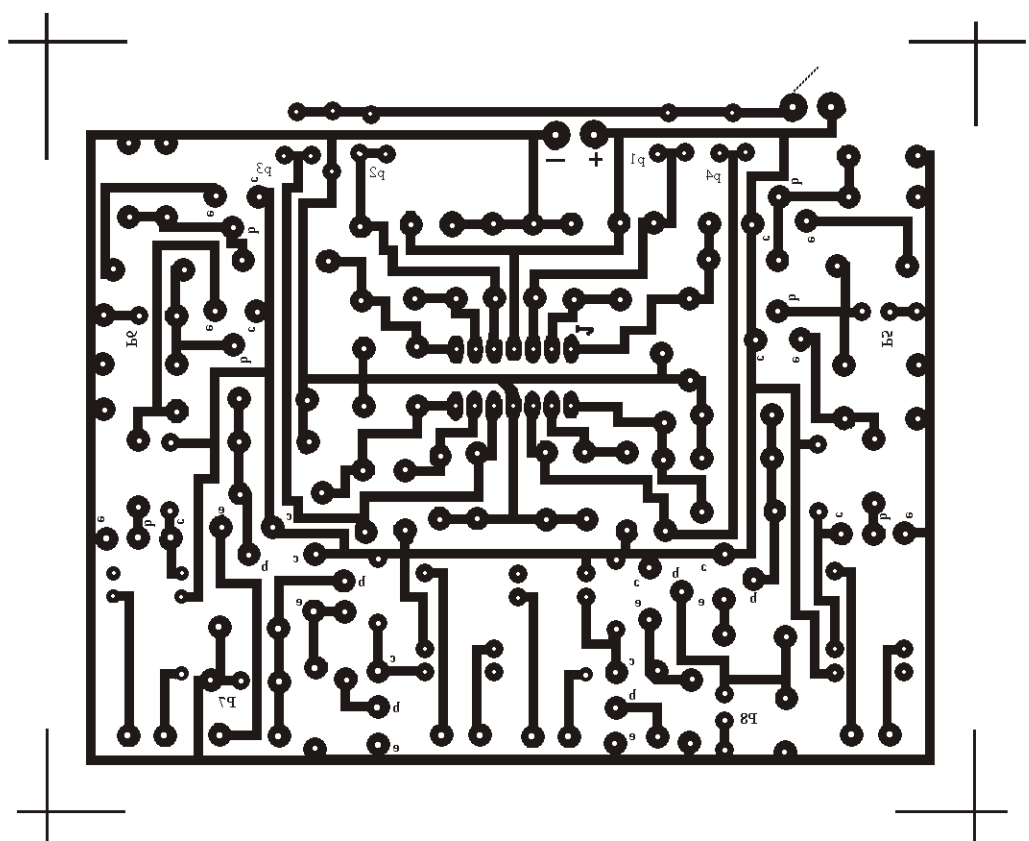
# Ritardo accensione e spegnimento luce "case"



## Elenco componenti

- R = 10 K $\Omega$
- R1=R10=R19=R28=4,7 K $\Omega$  1/4 W
- R2=R11=R20=R29= 33K $\Omega$  1/4 W
- R6=R15=R24=R33=1,8 K $\Omega$  1/4  $\Omega$
- R8=R17=R26=R35= 680  $\Omega$
- R3=R4=R5=R7=R9=
- R12=R13=R14=R16=R18=
- R21=R22=R23=R25=R27=
- R30=R31=R32=R34=R36=10K $\Omega$  1/4W
- C1=C4=C7=C10=100  $\mu$ F 25VL
- C2=C5=C8=C11=4,7 $\mu$ F 25VL
- C3=C6=C9=C12=220 $\mu$ F 25VL
- P1=P2=P3=P4=100K $\Omega$  lin
- P5=P6=P7=P8=1M $\Omega$  lin
- DZ1=DZ2=DZ3=DZ4= Zener 11V 1/2 W
- D1=D2=D3=D4=D5=D6=D7=D8=1N4150
- TR1=TR2=TR4=TR5=TR7=TR8=
- TR10=TR11= BC337
- TR3=TR6=TR9=TR12=BD137
- C.I.= LM 324
- N°4 RELAYS 12VCC/?Amp(dipende dal carico)

P1,P2,P3,P4 regolano ritardo accensione;P5,P6,P7,P8 regolano ritardo spegnimento



I relays usati in questo circuito a sua volta pilota no altri relays più potenti