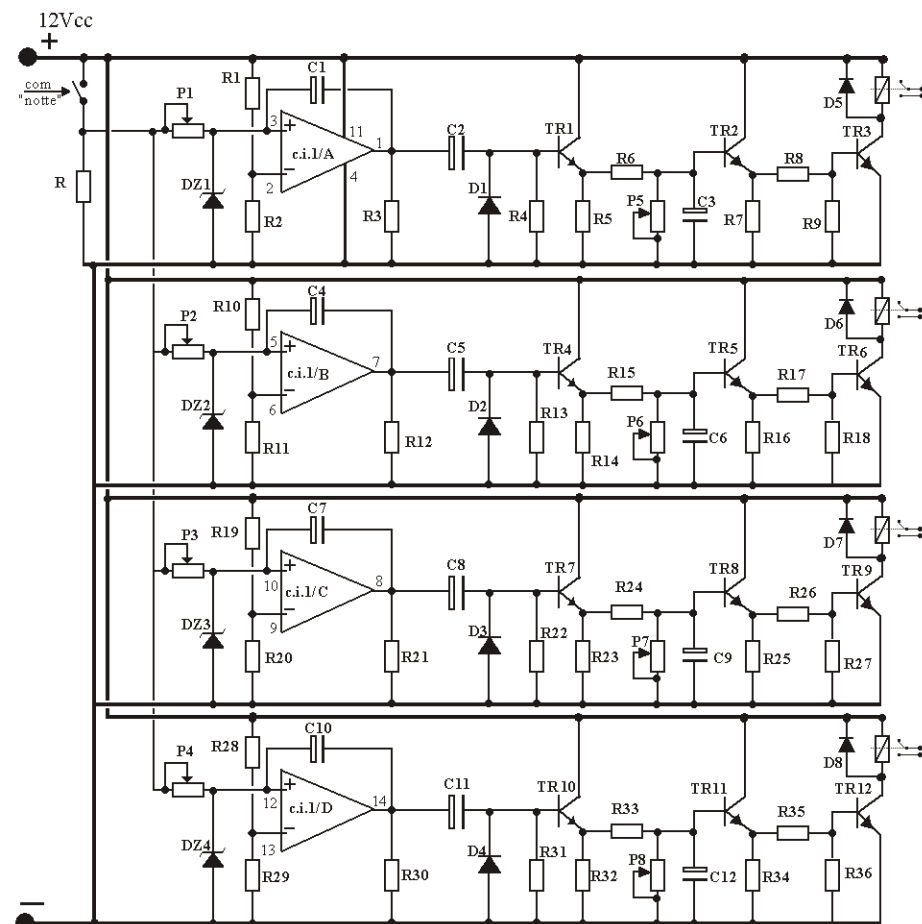


Ritardo accensione e spegnimento luce "case"



Elenco componenti

$R = 10 \text{ K}\Omega$

$R1=R10=R19=R28=4,7 \text{ K}\Omega \text{ } 1/4 \text{ W}$

$R2=R11=R20=R29= 33 \text{ K}\Omega \text{ } 1/4 \text{ W}$

$R6=R15=R24=R33=1,8 \text{ K}\Omega \text{ } 1/4 \text{ }\Omega$

$R8=R17=R26=R35= 680 \text{ }\Omega$

$R3=R4=R5=R7=R9=$

$R12=R13=R14=R16=R18=$

$R21=R22=R23=R25=R27=$

$R30=R31=R32=R34=R36=10 \text{ K}\Omega \text{ } 1/4 \text{ W}$

$C1=C4=C7=C10=100 \text{ }\mu\text{F } 25 \text{ VL}$

$C2=C5=C8=C11=4,7 \text{ }\mu\text{F } 25 \text{ VL}$

$C3=C6=C9=C12=220 \text{ }\mu\text{F } 25 \text{ VL}$

$P1=P2=P3=P4=100 \text{ K}\Omega \text{ lin}$

$P5=P6=P7=P8=1 \text{ M}\Omega \text{ lin}$

$DZ1=DZ2=DZ3=DZ4= \text{Zener } 11 \text{ V } 1/2 \text{ W}$

$D1=D2=D3=D4=D5=D6=D7=D8=1 \text{ N}4150$

$TR1=TR2=TR4=TR5=TR7=TR8=$

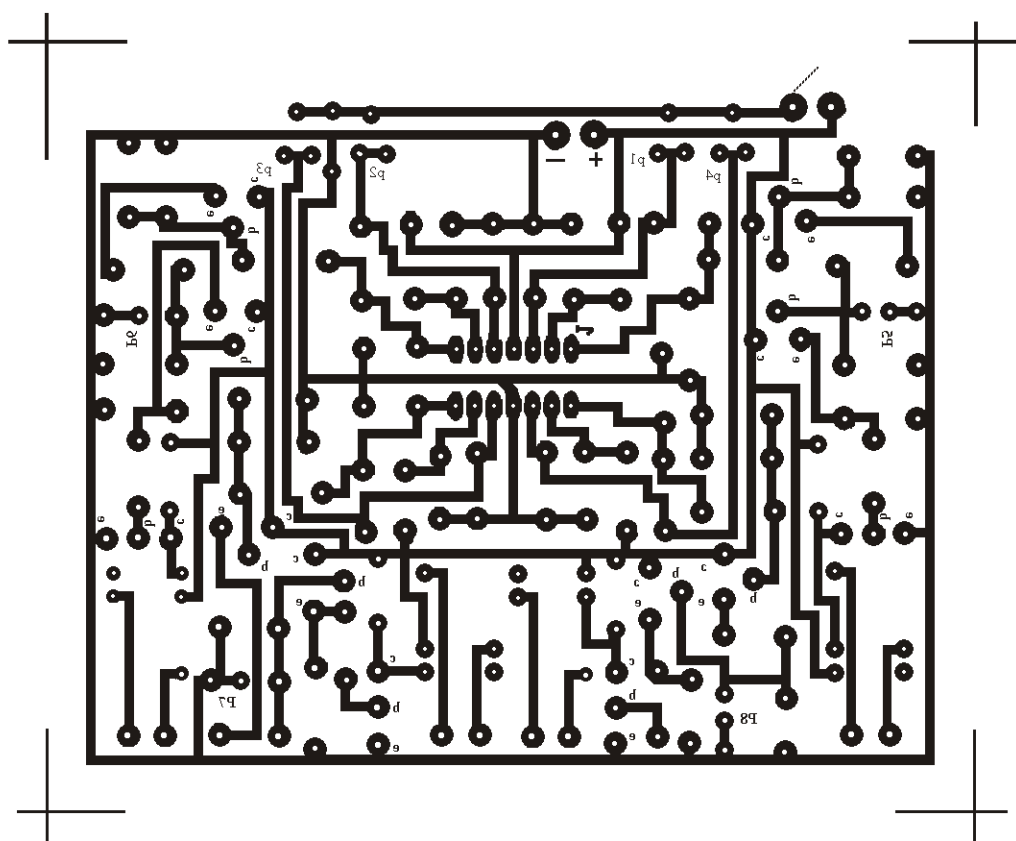
$TR10=TR11= \text{BC}337$

$TR3=TR6=TR9=TR12= \text{BD}137$

$\text{C.I.} = \text{LM } 324$

$\text{N}^{\circ} 4 \text{ RELAYS } 12 \text{ VCC}/? \text{ Amp (dipende dal carico)}$

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



I relays usati in questo circuito a sua volta pilotano altri relays più potenti