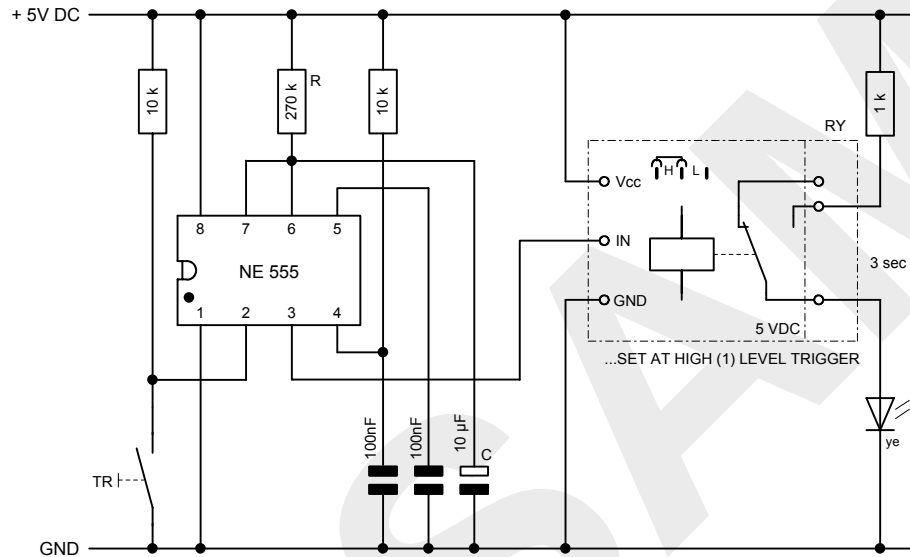


DELAY OFF RELAY TIMER, POWER-ON RESET, WITH H/L RELAY MODULE (JP SET = H)

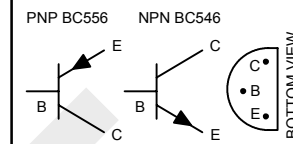


C (µF)	R (k)	T	C (µF)	R (k)	T
10	100	1 sec	470	560	4.8 min
10	180	2 sec	470	620	5.3 min
10	270	3 sec	470	680	5.9 min
10	330	4 sec	470	750	6.5 min
10	470	5 sec	470	820	7.1 min
22	430	10 sec	1000	470	8.6 min
22	560	14 sec	1000	510	9.4 min
22	820	20 sec	1000	560	10.3 min
47	470	24 sec	1000	620	11.4 min
47	560	29 sec	1000	680	12.5 min
47	680	35 sec	1000	750	13.8 min
47	750	39 sec	1000	820	15.0 min
100	430	47 sec	1000	910	16.7 min
100	510	56 sec	2200	430	17.3 min
100	620	1.1 min	2200	470	19.0 min
100	750	1.4 min	2200	510	20.6 min
220	470	1.9 min	2200	560	22.6 min
220	560	2.3 min	2200	620	25.0 min
220	680	2.7 min	2200	680	27.4 min
220	820	3.3 min	2200	750	30.3 min
470	470	4.0 min	2200	820	33.1 min
470	510	4.4 min	2200	910	36.7 min

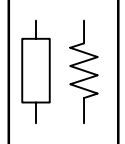
$T = 1.1 \times C \times R$

TR = TRIGGER  
RY = RELAY  
T = TIME PERIODE

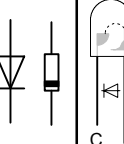
TRANSISTOR



RESISTOR:



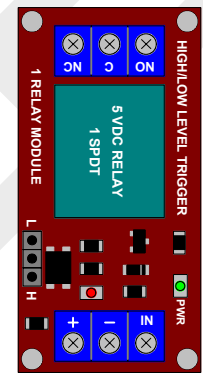
DIODE:



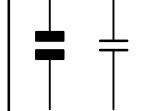
LED:



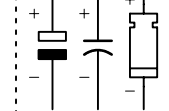
5V H/L TR. RELAY MODULE:



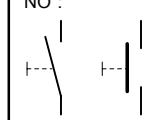
CAPACITOR:



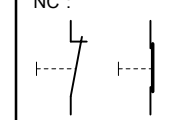
(POLARIZED)



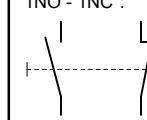
PUSH BUTTON "NO":



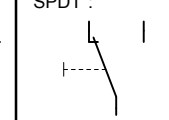
PUSH BUTTON "NC":



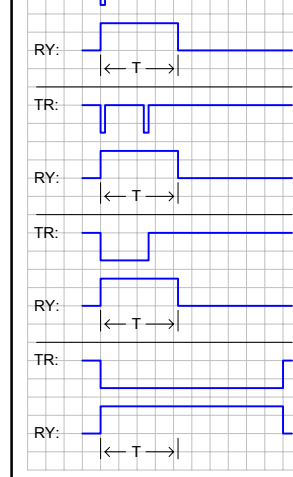
PUSH BUTTON "1NO - 1NC":



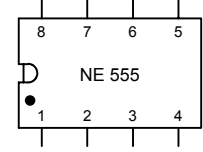
PUSH BUTTON "SPDT":



TR:



TIMER IC NE 555:



1 = GND (-)    5 = CONTROL VOLTAGE  
2 = TRIGGER    6 = THRESHOLD  
3 = OUTPUT    7 = DISCHARGE  
4 = RESET      8 = Vcc (+)

FIGURES ARE APROXIMATELY, DUE TO COMPONENT TOLERANCES !

FOR FULLY COMPONENT SPECS. SEE MANUFACTURER DATASHEETS

TI-3	A4	udo@elgers.com	ue-ERT20210630-01	30-JUN-2021
040	A	NE555 - RELAY TIMER EXPERIMENT 6		