

## SOUND OPERATED FLASH

The circuit shown enables near instantaneous synchronisation between sound and flash. The latching facility has been incorporated so that the flash is not retriggered.

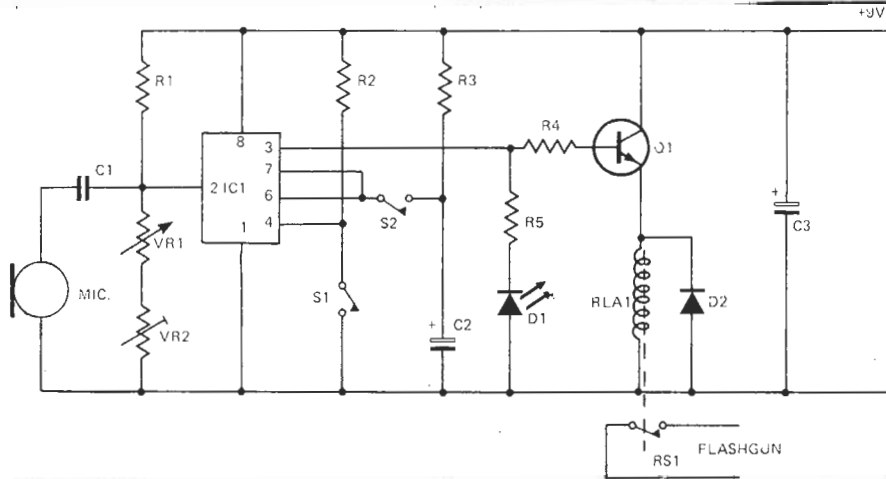
Resetting is by S1. With S2 closed, resetting occurs after a time after a time determined by  $1.1 \times C2 \times R3$ . This approximately equals five seconds as shown.

D1 indicates triggering and is used when setting the sensitivity:- set VR1 to zero and increase VR2 until D1 just fails to light. A sharp snap of the fingers causes it to light. S2, R3 and C2 maybe omitted if not required.

The output from IC1 via R4 and Q1 activates the read relay, used for its simplicity and speed of action. The relay itself is connected across the flash sync leads.

The unit maybe battery powered e.g. PP3, as it consumes a mere 15mA or so.

The circuit has been built as the result of many modifications to other circuits. I find it an interesting toy and in its simplicity, should cost less than £2.



### COMPONENTS \* (see text)

#### Resistors

R1	330k $\Omega$	
R2	22k $\Omega$	
R3	1M $\Omega$	* all 1/4W, 10%
R4	4k7 $\Omega$	
R5	560 $\Omega$	

#### Potentiometers

VR1	50k $\Omega$	lin
VR2	250k $\Omega$	preset

#### Semiconductors

IC1	NE555
Q1	BC108
D1	TIL209 LED
D2	1N914

#### Capacitors

C1	10nF
C2	4.7 $\mu$ F, 10V*
C3	100 $\mu$ F, 10V

#### MISC.

mic	crystal mike insert
S1	push to make switch
S2	spt switch
RLA1	reed relay coil
RS1	normally open reed switch