

SOUND ACTIVATED SWITCH

Clap switch/Sound activated switch designed around op-amp, flip-flop and popular 555 IC. Switch is free from false triggering to turn on/off any appliance, you just have to clap twice. The sound of clap received by microphone, microphone changes the sound wave in electrical wave which is further amplified by op-amp. 555 timer IC acts as monostable multivibrator then flip flop changes the state of output relay on every two claps. This can be used to turn ON/OFF lights and fans. Circuit activates upon two clap sounds and stays active until another sound triggers the circuit. Great project for handycaps, fun projects, and many more applications.

- Supply input 12 VDC, 60 mA
- Onboard preset for sensitivity adjust
- Onboard LED for relay On/Off state
- Onboard electret condenser microphone
- Relay output rated 5A, 110- 230 VAC

SR.	QTY.	REFERENCE	DESCRIPTION
1	1	CN1	2 PIN BERG TERMINAL CONNECTOR
2	1	CN2	3 PIN SCREW TERMINAL CONNECTOR
3	3	C1,C3,C5	10uF/35V
4	4	C2,C4,C6,C8	0.1uF
5	1	C7	1uF/50V
6	1	D1	RED LED
7	1	D2	1N4007
8	1	MK1	MIC
9	1	PR1	100K PRESET
10	1	Q1	BC847
11	1	RE1	12V RELAY
12	2	R1,R9	10K
13	2	R2,R10	4.7K
14	3	R3,R8,R11	100K
15	1	R4	22K
16	2	R5,R7	1K
17	1	R6	180K
18	1	U1	CD4013B
19	1	U2	LM358
20	1	U3	NE555
21	1	WIRE	WIRE

