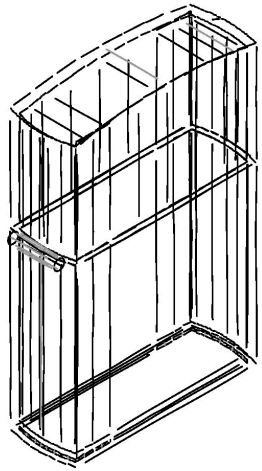


# THE ZIPPO ALARM



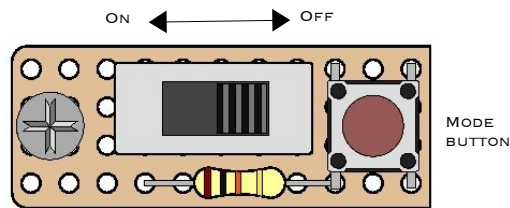
A VERSATILE INFRARED DETECTOR HOUSED IN A STURDY POCKET SIZED CASE

## WHAT IS IT?

INSIDE THE MAIN BODY OF THE LIGHTER IS AN INFRARED SENDER AND RECEIVER. THIS CAN DETECT WHEN AN OBJECT PASSES IN FRONT OF IT. ALSO A PIEZO SPEAKER INSIDE TO ACT AS AN ALERT.

INSIDE THE LID ARE THE BATTERIES, A POWER SWITCH AND THE MODE SELECT BUTTON.

THE DIFFERENT MODES INCLUDE VARIOUS DETECTION SETTINGS AS WELL AS CHOOSING BETWEEN LOUD AND SILENT ALARMS.



## HOW TO USE

### CHANGING THE BATTERIES:

THE DEVICE RUNS ON 3 X 1.5V BUTTON CELLS, AG13 IS THE LARGEST SIZE WHICH WILL FIT IN THE SPACE. THESE LAST THE LONGEST BUT UNFORTUNATELY MEAN THAT THE LID CAN'T CLOSE :S

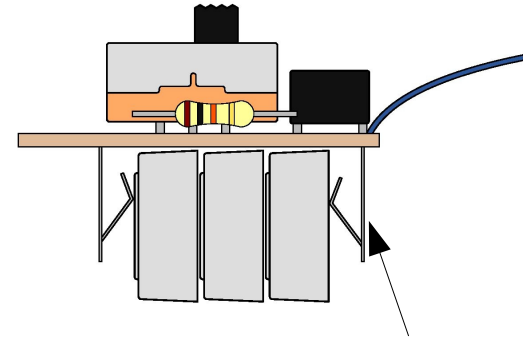
- MAKE SURE THE POWER SWITCH IS OFF
- UNDO THE SMALL SCREW IN THE LID
- REMOVE THE SMALL BOARD, BEING CAREFUL OF THE WIRES
- REMOVE ANY OLD BATTERIES AND INSERT 3 NEW ONES. THE +IVE (FLAT SIDE) OF THE CELLS SHOULD BE TOUCHING THE CONTACT AT THE END WHERE THE WIRES ARE.
- REPLACE THE BOARD AND RETIGHTEN THE SCREW.

ANY SIZE OF BUTTON CELL CAN BE USED, LARGER ONES WILL LAST LONGER.

ALWAYS USE 3 CELLS NO MORE OR LESS, DON'T MIX DIFFERENT BATTERY SIZES.

**IMPORTANT: THE BATTERIES MUST BE PLACED IN THE RIGHT WAY ROUND OR ELSE YOU MAY DAMAGE THE CHIP.**

**IF, AFTER A BATTERY CHANGE, THE DEVICE IS UNRESPONSIVE OR HEATING UP IMMEDIATELY TURN OFF AND CHECK THE BATTERIES!**



POSITIVE (FLAT SIDE OF BATTERY) GOES HERE

BATTERY CONTACTS CAN BE BENT / ADJUSTED TO FIT DIFFERENT SIZES OF BUTTON CELL)

## HOW DOES IT WORK?

THE DEVICE SENDS OUT A MODULATED INFRARED SIGNAL, IT IS MODULATED SO OTHER SOURCES DON'T INTERFERE.

THE DETECTOR THEN SENSES ANY OF THE SIGNAL THAT IS REFLECTED BACK TO IT.

SO ANY OBJECT THAT PASSES CLOSE ENOUGH TO THE SENSOR WILL REFLECT THE SIGNAL BACK AND TRIP THE ALARM.

THE RANGE CAN BE UP TO 15CM+ IN GOOD CONDITIONS (NOT TOO BRIGHT) AND WITH FULL BATTERY CHARGE.

AS THE BATTERIES RUN OUT THE RANGE WILL FALL TO < 5CM AND THEN THE DEVICE WILL STOP OPERATING.

THE BATTERIES WILL LAST LONGER WHEN USING EITHER OF THE 'REVERSE' MODES.

## TROUBLESHOOTING

I'VE SPENT A LONG TIME TRYING TO MAKE SURE THIS THING WILL LAST BUT IF ANYTHING GOES WRONG HERE ARE SOME SIMPLE FIXES:

- NOTHING HAPPENS WHEN I PRESS THE MODE BUTTON
  - THE BATTERIES MAY BE DEAD, OR THE WRONG WAY ROUND
  - THE BATTERIES MAY BE SHORT CIRCUITING, CHECK THAT NONE OF THE INSULATION HAS RUBBED OFF THE INSIDE OF THE LID OR THE BATTERY BOARD.

- I CAN SELECT A MODE BUT THE SENSOR WON'T WORK.
  - USE TEST MODE AND PLACE YOUR HAND RIGHT OVER THE SENSOR TO CHECK THAT IS DEFINITELY YOUR PROBLEM.
  - THE IR LED MAY BE LOOSE PRESS DOWN ON IT TO SEE IF THAT WORKS.
  - THE WIRES BETWEEN LID AND BODY MAY BE DAMAGED, CHECK THERE ARE NO BREAKS.

## TROUBLESHOOTING

- THE SENSOR SEEMS TO BE SETTING ITSELF OFF, WHEN THERE'S NOTHING NEAR IT
  - IF PLACED ON A FLAT SURFACE THE SENSOR MAY PICK UP REFLECTIONS OF THE SURFACE, TRY PROPPING UP THE SENSOR OR LAYING IT ON A LESS REFLECTIVE SURFACE
  - IN SOME CONDITIONS THE DEVICE MAY SET ITSELF OFF ANYWAY, USE THE ADAPTOR PROVIDED TO STOP THIS (IF YOU LOOSE IT, IT'S JUST A LENGTH OF PEN WITH FOIL INSIDE) PLACE THE ADAPTOR OVER THE IR LED, THIS WILL STOP IT AUTO TRIPPING, BUT MAY REDUCE RANGE.

- I SET UP THE DEVICE AND GET A CONFIRMATION, BUT LATER WHEN SOMEONE GOES PAST, THE ALARM DOESN'T TRIP
  - TRY CHANGING THE BATTERIES, THERE MAY BE JUST ENOUGH CHARGE TO SET UP THE DEVICE BUT AFTER RUNNING FOR A FEW SECONDS IT DIES.

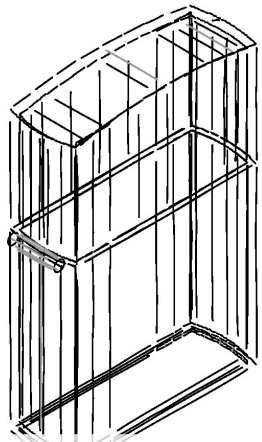
## TROUBLESHOOTING

- I SET THE DEVICE UP IN GUARD MODE BUT AFTER A WHILE IT SETS ITSELF OFF.
  - AS THE BATTERIES DRAIN THE RANGE WILL FALL, TRY PLACING THE SENSOR A LOT CLOSER.
  - IF THE SENSOR IS ALREADY CLOSE THEN YOU MAY NEED TO PUT IN NEW BATTERIES TO RUN THE DEVICE PROPERLY.

IF THERE ARE ANY PROBLEMS FEEL FREE TO E-MAIL ME. I WOULDN'T RECOMMEND TRYING TO DISMANTLE THE MAIN BODY, SO IF YOU THINK THERE MAY BE A PROBLEM IN THERE FEEL FREE TO POST IT BACK TO ME & I'LL TAKE A LOOK.

HAVE FUN,  
Tom

# MODE SELECT GUIDE



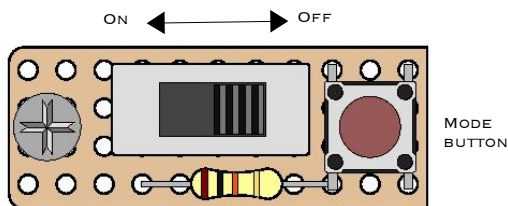
HOW TO SELECT THE DIFFERENT MODES AND SOME FUN THINGS YOU CAN DO WITH EACH OF THEM.

## HOW TO USE

### MODE SELECT:

- TURN DEVICE ON
- PRESS MODE BUTTON REQUIRED NUMBER OF TIMES (I.E PRESS 3 TIMES FOR MODE 3)
- WAIT FOR CONFIRMATION, FOR MODE 3 THIS WOULD BE 3 BEEPS / FLASHES.

- IF YOU CAN'T GET IT TO SELECT THE RIGHT MODE YOU MAY BE PRESSING THE BUTTON TOO FAST.
- SWITCH THE DEVICE OFF WAIT 3 SECONDS TURN ON AND TRY AGAIN.



### 3. TEST

- SELECT MODE **3**. AND WAIT FOR CONFIRMATION (3 BEEPS)
- WHENEVER SOMETHING IS IN FRONT OF THE SENSOR IT WILL BEEP CONTINUOUSLY UNTIL WHATEVER IS BLOCKING IT IS MOVED.

#### WHAT CAN YOU DO WITH IT?

THIS MODE IS GOOD FOR TESTING THE RANGE AND RESPONSE OF THE SENSOR.

THE SENSOR CAN VARY DEPENDING ON HOW LIGHT IT IS AND WHAT SORT OF SURFACE IT IS PLACED ON

SOMETIMES WHEN PLACED ON IT'S SIDE THE DEVICE WILL SET ITSELF OFF. IF THIS HAPPENS PLACE THE SENSOR SHEATH OVER THE CLEAR LED. (THIS MAY LIMIT THE SENSOR'S RANGE)

### 4. DOORBELL

- SELECT MODE **4**. AND WAIT FOR CONFIRMATION (4 BEEPS)
- WHENEVER SOMETHING IS IN FRONT OF THE SENSOR IT WILL MAKE A 'DING DONG' TYPE NOISE.

#### WHAT CAN YOU DO WITH IT?

YOU CAN PLACE THIS IN A DOORWAY TO INFORM YOU WHEN SOMEONE IS COMING.

IT IS DIFFERENT TO THE STANDARD DETECT BECAUSE ONCE SOMEONE HAS PASSED IT WILL BECOME QUIET AGAIN, IT IS ALSO NOT AN ANNOYING NOISE LIKE THE STANDARD ALERT.

## MODES

### 1. STANDARD DETECT

- SELECT MODE **1**. AND WAIT FOR CONFIRMATION (SINGLE BEEP)
- YOU NOW HAVE 9 SECONDS TO PLACE THE DEVICE.
- AFTER 9 SECONDS YOU GET A 2<sup>ND</sup> CONFIRMATION
- NOW WHEN SOMETHING ACTIVATES THE SENSOR AN ALARM WILL GO OFF AND KEEP GOING UNTIL THE DEVICE IS TURNED OFF.

#### WHAT CAN YOU DO WITH IT?

WITH THIS MODE YOU CAN ALARM A DOORWAY OR WINDOW, OR ANYWHERE ELSE SOMEONE MAY WALK PAST IT.

IT IS USED TO INSTANTLY ALERT YOU TO ANY INTRUSION SO YOU MUST BE WITHIN EARSHOT WHEN USING THIS MODE.

### 5. REVERSE DETECT

- SELECT MODE **5**. AND WAIT FOR CONFIRMATION (5 BEEPS)
- YOU NOW HAVE 9 SECONDS TO PLACE THE DEVICE. MAKE SURE SOMETHING IS BLOCKING THE SENSOR BEFORE THE 9 SECONDS ARE UP
- AFTER 9 SECONDS YOU GET A 2<sup>ND</sup> CONFIRMATION
- WHEN THE SENSOR IS CLEARED THE DEVICE WILL SOUND AN ALERT CONTINUOUSLY UNTIL THE DEVICE IS TURNED OFF.

#### WHAT CAN YOU DO WITH IT?

WITH THIS MODE YOU CAN GUARD SOMETHING. SET UP THE DEVICE IN FRONT OF SOMETHING PRECIOUS. WHEN SOMEONE TRIES TO STEAL IT, AN ALERT WILL GO OFF.

ALARM A CUPBOARD, SET IT UP AND CLOSE THE DOOR.

ALARM IT'S SELF, SET UP THE LIGHTER AND CLOSE THE LID

### 2. SILENT DETECT

- SELECT MODE **2**. AND WAIT FOR CONFIRMATION (DOUBLE FLASH, NO SOUND)
- YOU NOW HAVE 9 SECONDS TO PLACE THE DEVICE.
- AFTER 9 SECONDS YOU GET A 2<sup>ND</sup> CONFIRMATION
- WHEN THE SENSOR IS ACTIVATED THE DEVICE WILL WAIT 60 SECONDS THEN ACTIVATE A SLOWLY PULSING LIGHT TO INDICATE IT HAS BEEN TRIPPED.

#### WHAT CAN YOU DO WITH IT?

WITH THIS MODE YOU CAN ALARM A DOORWAY OR WINDOW, OR ANYWHERE ELSE SOMEONE MAY WALK PAST IT.

THIS MODE CAN BE USED IF YOU WANT TO KNOW IF SOMEONE HAS BEEN IN A ROOM WHILE YOU ARE OUT. SET IT UP AND LEAVE A ROOM. WHEN YOU COME BACK YOU WILL HAVE 60 SECONDS TO SEE IF THE DEVICE WAS TRIPPED WHILE YOU WERE OUT.

(AFTER 60 SECONDS THE LIGHT WILL BE PULSING ANYWAY BECAUSE YOU TRIPPED IT YOURSELF WHEN YOU CAME BACK IN!)

### 6. REVERSE SILENT

- SELECT MODE **6**. AND WAIT FOR CONFIRMATION (6 FLASHES)
- YOU NOW HAVE 9 SECONDS TO PLACE THE DEVICE. MAKE SURE SOMETHING IS BLOCKING THE SENSOR BEFORE THE 9 SECONDS ARE UP
- AFTER 9 SECONDS YOU GET A 2<sup>ND</sup> CONFIRMATION
- WHEN THE SENSOR IS CLEARED THE DEVICE WILL WAIT 60 SECONDS THEN ACTIVATE A SLOWLY PULSING LIGHT TO INDICATE IT HAS BEEN TRIPPED.

#### WHAT CAN YOU DO WITH IT?

THIS IS A COMBINATION OF THE REVERSE MODE AND SILENT MODE.