



## USER MANUAL

# BEACON

## Sounder



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## Description

The Beacon sounder has 38 Ultra Bright, RGB LEDs with 360° visibility and Piëzo sounder, 107 dB @ 1 meter. The visual and audible modes can be used independently or combined in any required combination by analog or digital trigger.

**Important:** This user manual contains important information regarding the operation of the beacon sounder. Ensure you read this user manual fully before installing and operating the beacon sounder. If you are installing this beacon sounder for use by others, you must leave this manual with the end user. Installation must be carried out, in accordance with latest codes and regulations, by a qualified electrician.



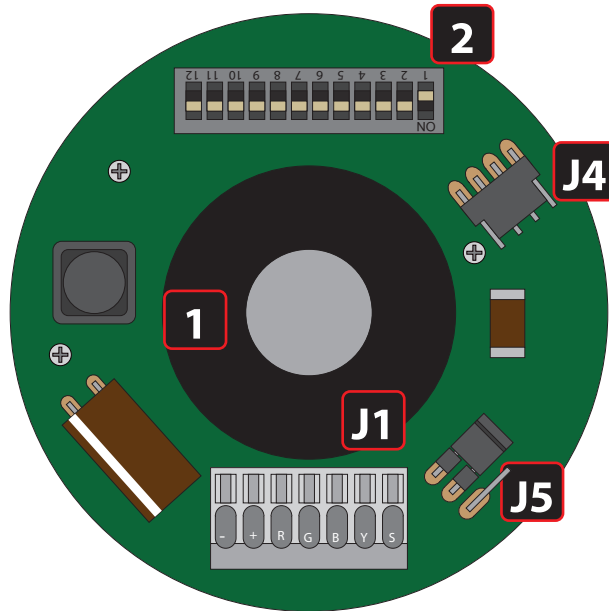
## Warning

- **Ensure power source is disconnected prior to installation or maintenance to avoid damage to the beacon sounder or electric shock.**
- Do not handle internal electronic components whilst wiring up. Environmental exposure during installation should be under dry circumstances, avoid heavy moist and wet conditions. The beacon sounder is only weatherproof to IP65 when mounted upright.
- Use M4 screws, washers and nuts (4 pieces supplied) to secure beacon to its mounting. Do not mount the beacon sounder on places with excessive vibrations.
- Do not use solvents or cleaners on the beacon sounder, as they may cause damage to the beacon lens or circuitry. The unit can be wiped with a slightly damp cloth.

## Disposal

The beacon sounder should not be disposed with your other household waste. The beacon sounder is ideally suited for disposal within the waste electronic and electrical equipment (WEEE) recycling scheme. Check at your local authority, retailer or contact our technical support team for recycling/disposal advice as regional variations apply. You may return the unit to us for safe dismantling and disposal.





## 1. Product overview

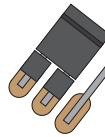
### 1.1 PCB LAYOUT

#### 1. Sounder

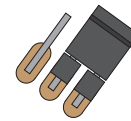
#### 2. 12-pin DIP switch

#### J4. Digital input

#### J5. Jumper



Trigger = ground



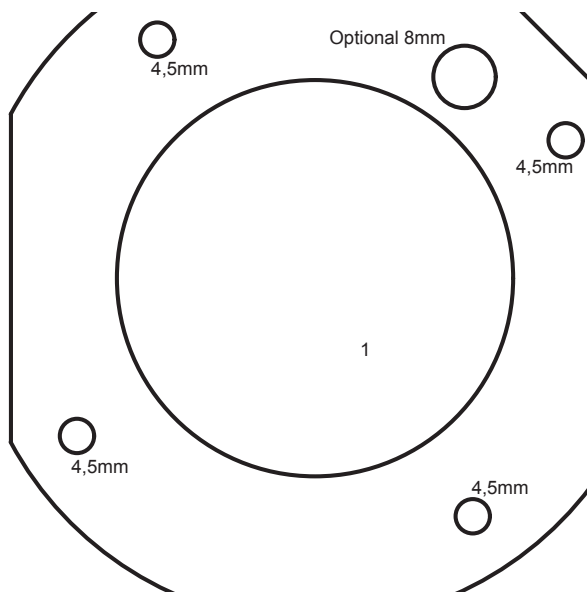
Trigger = positive

Power Supply	9-30V DC (min4W)
Stand-by current	max 10mA
Trigger voltage positive	6-30V DC
Trigger voltage ground	min 6V DC below supply
Trigger current	max 6mA
Cable diameter	max 0.5mm <sup>2</sup> (24 to 20AWG) Stranded core

#### J1. Terminal block 7 pins

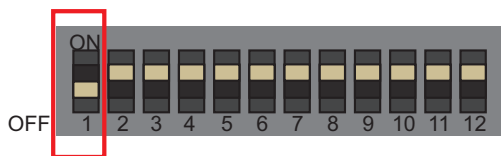
- = Ground
- + = Supply voltage
- R = Red light
- G = Green light
- B = Blue light
- Y = Yellow light
- S = Sounder

## 1.2 DRILLING TEMPLATE



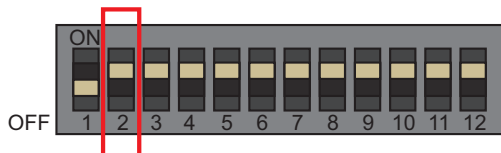
Drilling Template Scale 1/1

## 2.DIP Switch Settings



**DIP switch 1** ON = digital / AirWatch  
OFF = analog / standard input

*Following setting will only work in analog mode (Dip 1 "Off") refer to AirWatch configuration software/manual for Digital input.*



**DIP switch 2** ON = loud sound  
OFF = soft sound



### DIP switch 3/4 Sound selection



alternating low/  
high beeps



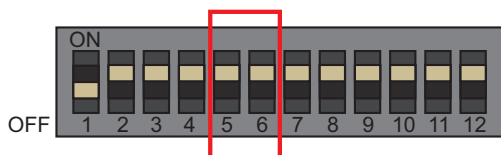
continuous 50 Hz



changing frequency  
fast



continuous 2700 Hz



### DIP switch 5/6 Yellow light



continuous



fancy loop



looping



flashing 10 Hz /  
50% duty cycle



### DIP switch 7/8 Blue light



continuous



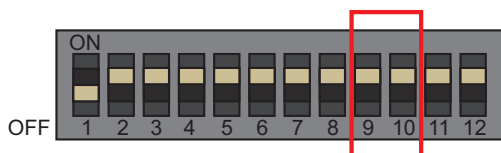
fancy loop



looping



flashing 10 Hz /  
50% duty cycle



### DIP switch 9/10 Green light



continuous



fancy loop



looping



flashing 10 Hz /  
50% duty cycle



### DIP switch 11/12 Red light



continuous



fancy loop



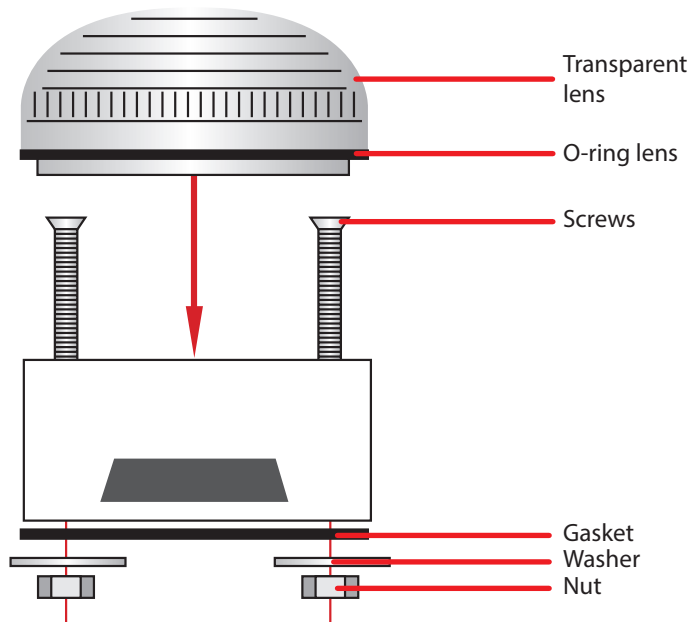
looping



flashing 10 Hz /  
50% duty cycle

## 3. Mounting Instructions

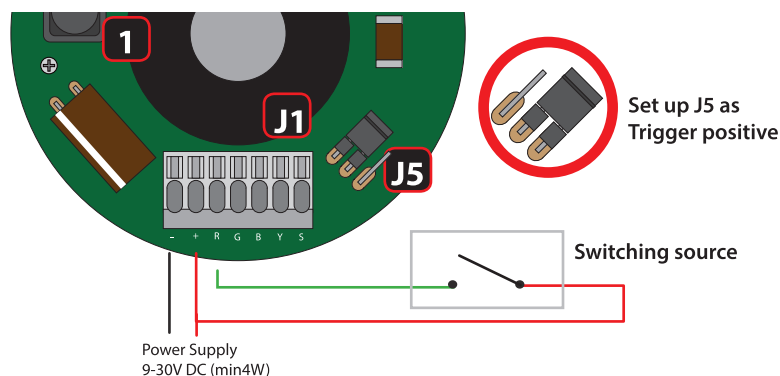
- Use drilling template to make holes in the mounting surface.
- Mount the beacon sounder with the supplied screws, washers and nuts.
- Always mount with the glass upright.
- Ensure all rubber gaskets are placed correctly.
- Insert Supply/signal cable through the 5,5mm hole (see drilling template)
- Connect supply/signal cable to the terminal block (wire 24 to 20AWG)



### Caution

Only mount in upright position as shown

### ANALOG USE CONNECTION EXAMPLE POSITIVE TRIGGER



## 4. General Specifications

<b>Dimensions</b>	92 x 88 mm (3.6 x 3.5") Dia x H
<b>Weight</b>	250 g (8.82 oz)
<b>Mounting</b>	4x M4x35 bolts
<b>Colors</b>	RGB LED, in Red, Yellow, Green and Blue flashing patterns
<b>Sound</b>	Different types of alarm sounds
<b>Sound Pressure Level</b>	107 dB @ 1 meter (3.3 ft)
<b>Power Supply</b>	9-30V DC (min. 4W)
<b>Standby Current</b>	Max. 10 mA
<b>Trigger Voltage Positive</b>	6-30V DC
<b>Trigger Voltage Ground</b>	Min. 6V DC below supply current
<b>Trigger Current</b>	Max. 6 mA
<b>Cable diameter</b>	Max. 0,5 mm <sup>2</sup> (24 to 20 AWG) stranded core

## 4. Limited Warranty

WATCHGAS warrants this product to be free of defects in workmanship and materials-under normal use and service-for two years from the date of purchase from the manufacturer or from the product's authorized reseller.

The manufacturer is not liable (under this warranty) if its testing and examination disclose that the alleged defect in the product does not exist or was caused by the purchaser's (or any third party's) misuse, neglect, or improper installation, testing, or calibrations. Any unauthorized attempt to repair or modify the product, or any other cause of damage beyond the range of the intended use, including damage by fire, lightning, water damage or other hazard, voids liability of the manufacturer.

In the event that a product should fail to perform up to manufacturer specifications during the applicable warranty period, please contact the product's authorized reseller or WATCHGAS service center at +31 (0)85 01 87 709 for repair/return information.



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