HOCHIKI YBO-BS BASE SOUNDER INSTALLATION INSTRUCTIONS

Products Covered: YBO-BS installed with ALG-E, ALG-E(NP), AIE-E, AIE-E(NP), ATG-E, ATG-E(NP), ACA-E, ACB-E Sensors, CHQ-AB Range of Beacons, CHQ-ARI Remote Indicator and YBN-R/3 Standard Base, YBO-R/SCI Short-Circuit Isolator Base (from batch code 6044 only).

Introduction

The Loop-Powered Sounder Base (YBO-BS) is designed to complement the standard common mounting base (YBN-R/3) and the isolator base (YBO-R/SCI) in locations where Loop-Powered Sounders are required. The YBO-BS has connections for both of these types of base as well as for the standard range of Hochiki Analogue Addressable Sensors and Beacons. The YBO-BS is designed to give audibility in locations such as Hotel Bedrooms, Offices and Corridors. Note that the YBO-BS is for indoor use only (Type A) and is rated at IP21.

Common Configurations

The YBO-BS can be used in conjunction with an ESP Sensor, Beacon or Remote Indicator (see Fig.1) or with the addition of a Cap (see Fig. 2).

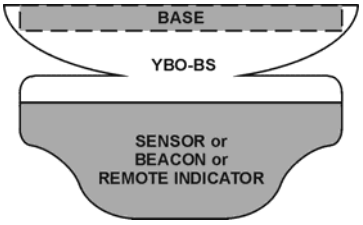


Fig. 1

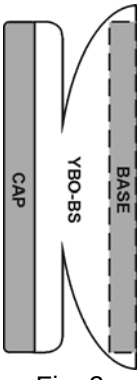


Fig. 2

Address Setting

The default address of the YBO-BS is 254, and therefore if the YBO-BS is to be used as a base sounder (sensor on top) then the address will not need to be changed, as the control panel will automatically address the sounder as described below. However, if the sounder is to be used as a wall sounder then the YBO-BS will need to be manually addressed from 1 to 127 as described below. **Note: Control Panel compatibility needs to be checked to verify if automatic addressing above 127 is supported.**

Automatic Addressing (Control Panel)

The control panel automatically assigns the address to the base sounder at initialisation, the address is calculated by taking the address of the sensor that is fitted to the base sounder and adding 127, this is then stored within the base sounder. For example, if a sensor is set at address 10 then the base sounder would be automatically set at address 137. Addresses above 127 may not be visible to the user depending upon the implementation by the Control Panel.

Manual Addressing (Hand Held Programmer)

The base sounder address can be set using the Hand Held programmer (TCH-B100) from 1 to 254. See the TCH-B100 instructions for further details of address setting. If the YBO-BS is to be used as a wall sounder then the address should be set from 1 to 127 before being installed. If the YBO-BS is to be used as a base sounder (sensor on top) then the address should be set from 128 to 254.

Precautions

- Ensure that the base sounder is installed in accordance with Local Standards or Regulations.
- Check that both sensor and mounting base are compatible with the YBO-BS.
- Only install in suitable environments, the following in particular should be avoided: -
  - Excessive ambient temperature.
  - Where excessive condensation or moisture is present.
  - Hazardous areas.
- A high voltage tester must not be used with this base sounder.
- Ensure that the base sounder is securely fixed to the mounting base.
- For proper wiring supervision ensure that the cables are wired as shown in the diagram below.

Tones and Volumes

Table 1 below shows the full range of sound outputs available from the YBO-BS and the amount of current drawn when operated. When the YBO-BS is selected to be a base sounder (sensor on top) the default sound output will be 85dB(A). The YBO-BS is also capable of utilising a number of different EN54-3 Approved tones; these are listed In Table 2. **The tone of the sounder and the volume level is selected and controlled by the control panel, therefore check with the control panel manufacturer for options and default values available.**

Table 1	
Nominal Sound Output dB(A)*‡	**Current Drawn mA**
50	0.8
55	0.8
60	0.8
70	0.8
78	1.5
80	2.0
85	3.0
88	4.5
90	6.5
93	8.0
94	10
95	11
98	16

Table 2	
Tone Number	**Tone Frequencies & Durations***
1	925Hz/0.25s, 628Hz/0.25s
4 (French)	554Hz/0.1s, 440Hz/0.4s
5 (Swedish)	660Hz/0.15s, 0Hz/0.15s
8 (Whoop)	500HZ/3s, 1200Hz/0.5s
12 (Sweep)	800Hz/1s, 970Hz/0s
15 (Sweep)	2400Hz/1s, 2850Hz/0s
17 (970:ISO8201)	970Hz/0.5s, 0Hz/0.5s
18 (2850:ISO8201)	2850Hz/0.5s, 0Hz/0.5s

* Refer to AP083 (available from our website) for complete EN54-3 A-weighted sound levels.

‡ @ 1m distance.

Installation

The base sounder is designed to be mounted on the Standard Mounting Base (YBN-R/3) or the Short-Circuit Isolator Mounting Base (YBO-R/SCI, from batch code 6044 only) in the same method as a Sensor. The terminals on the mounting base hold the YBO-BS and in turn the terminals on the YBO-BS hold the sensor, beacon or cap if being used as a wall sounder (see below). For correct wiring of the appropriate mounting base, please refer to the diagram below.

Locking Mechanism

The base sounder can be locked onto the relevant mounting base by removing a plastic lug on the underside of the sounder (see Fig. 3).

The sounder can then only be removed by using a special Removal Tool (TSC-SRT), which is available from Hochiki Europe (UK) Ltd.

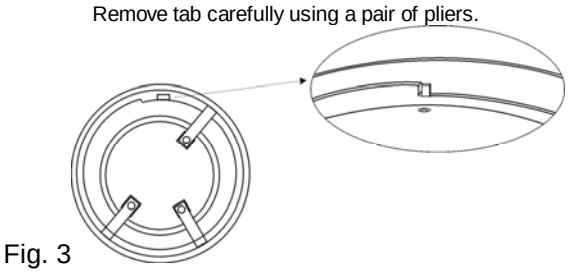


Fig. 3

Using the YBO-BS as a Wall Sounder

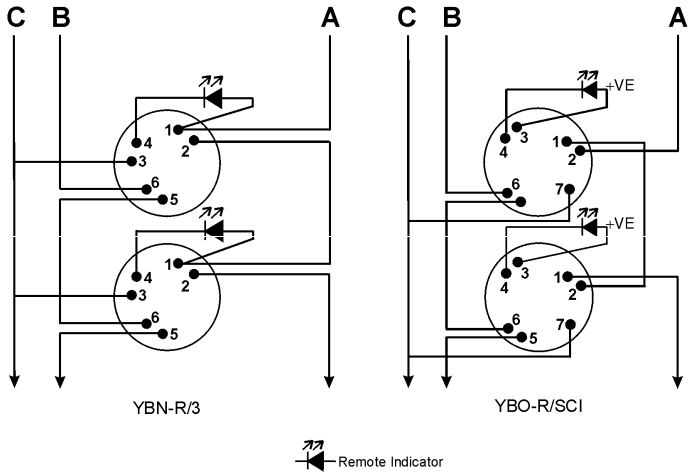
A push-fit cap (SI/CAP) is available to cover the electrical connections if an analogue sensor, beacon or indicator is not being fitted (see Fig. 2). Align the arrow marked inside the cap with the sensor alignment mark on the base sounder. This will ensure the four tabs on the cover will engage with the matching slots in the base sounder. Push cap firmly onto the base sounder until it clicks into place.

Wiring

Please refer to the following diagrams for wiring the Standard Mounting Base (YBN-R/3) and the Short-Circuit Isolator Mounting Base (YBO-R/SCI):

A: Loop (+)
B: Loop (-)
C: Cable Screen (where used)

Operating Voltage: 17 ~ 41 Vd.c.



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