

Analogue Addressable Base Sounder Beacon

YBO-BSB2



Features

- ▶ Single Loop Address - addressed via the TCH-B100 Hand Held Programmer
- ▶ Variable Sound Output
50 ~ 98 dB(A) (± 2 dB(A)) output at 1 metre
- ▶ Sounder and Beacon can operate independently*¹
- ▶ 0.5 or 1Hz flash frequency*¹
- ▶ Fits Hochiki Standard or Isolator Base and supports ESP Sensors, Addressable Beacons and Addressable Remote Indicator
- ▶ 51 User-Selectable Tones (all tones EN54-3 compatible)
- ▶ Auto-Shutdown feature prevents noise-pollution*¹
- ▶ 'O' Rated Beacon to EN54-23
- ▶ Available with Red or White LEDs
- ▶ Available with White or Ivory case

Description

Model YBO-BSB2 is an addressable loop powered Base Sounder with integral Beacon, innovatively designed to give a range of tones and volumes with a maximum output of up to 98 dB(A) (± 2 dB(A)) with low current consumption. The unit is designed to fit to the Standard Base (YBN-R/3) or the Isolator Base YBN-R/3(SCI) and can be fitted with any of the ESP Range of Sensors, Beacons or Remote Indicators. The unit can also be converted into a wall sounder beacon with the simple addition of a Cap (SI/CAP2). The sounder is Ingress Protection rated to IP21 and for internal use only. An Auto-Shutdown feature allows the user to set a fixed time within which the sounder or beacon will operate, before automatically shutting down, cutting noise pollution in the case of the sounder element*¹. Sounder and Beacon elements can be operated independently from each other*¹.

Specification	
Ordering Codes	YBO-BSB2/WL, YBO-BSB2(WHT)/WL, YBO-BSB2/RL, YBO-BSB2(WHT)/RL (see page 2 for further details)
Operating Voltage	17 ~ 41 Vdc
Low Power Mode (typ)	110 μ A
Quiescent Current (typ)	250 μ A
Sounding Current (typ)	0.8 mA (50 dB(A) @ 1 m) ~ 16 mA (98 dB(A) @ 1 m)
Additional Current when Beacon active	+ 7 mA
Sound Output (at 1 metre)	50 ~ 98 dB(A) (± 2 dB(A)) @ 24 Vdc or above (EN54-3 compliant)
Number of Tones	51
Tone Frequency Range	300 Hz ~ 2850 Hz
Operating Temperature Range	-10 °C to +50 °C
Storage Temperature Range	-30 °C to +70 °C
Maximum Humidity	95% RH - Non Condensing (at 40 °C)
Colour / Case Material	Ivory or White / PC+PS+GF5
Lens Material	Translucent PC
Ingress Protection Rating	IP21
Weight (g) / Dimensions (mm)	160 / H113 x W113 x D43
Base Fixing Centres (mm)	48 ~ 74

*¹ Panel compatibility dependant

Note: Although the TCH-B100 Hand Held Programmer will allow addresses between 128 and 255 to be programmed into the YBO-BSB2, addresses 1 to 127 ONLY should be used.

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How to choose your Hochiki VAD

Our VAD ratings comprise three parts, **X-Y-Z**

where **X** denotes the category, either “O” for Open, “W” for Wall or “C” for ceiling

where **Y** denotes the maximum mounting height (m)

where **Z** is the width and length (m) of the coverage floor area

For example **C-3-5** means the VAD is in the Ceiling category, can be mounted at a maximum ceiling height of 3 metres and produces a 5 metre diameter coverage (in other words a cylinder 3m high x 5m wide).

What type of VAD?	Which case colour?	Which LED colour?	Product	EN54-23 Ratings*4		
				1	2	3
Base Sounder Beacon	Ivory case	White LEDs	YBO-BSB2/WL	'O' Rated		
		Red LEDs	YBO-BSB2/RL			
	White case	White LEDs	YBO-BSB2(WHT)/WL			
		Red LEDs	YBO-BSB2(WHT)/RL			
Wall Sounder Beacon	Red case	White LEDs	CHQ-WSB2/WL			
		Red LEDs	CHQ-WSB2/RL			
	White case	White LEDs	CHQ-WSB2(WHT)/WL			
		Red LEDs	CHQ-WSB2(WHT)/RL			
Ceiling Beacon	Ivory case	Red LEDs	CHQ-CB/RL	O	C-3-7.5	C-3-10
		White LEDs	CHQ-CB/WL	C-3-5	C-3-7.5	C-3-10
	White case		CHQ-CB/WL-15	O	C-3-10	C-3-15
		Red LEDs	CHQ-CB(WHT)/RL	O	C-3-7.5	C-3-10
		White LEDs	CHQ-CB(WHT)/WL	C-3-5	C-3-7.5	C-3-10
	Red case		CHQ-CB(WHT)/WL-15	O	C-3-10	C-3-15
		Red LEDs	CHQ-CB(RED)/RL	O	C-3-7.5	C-3-10
		White LEDs	CHQ-CB(RED)/WL	C-3-5	C-3-7.5	C-3-10
			CHQ-CB(RED)/WL-15	O	C-3-10	C-3-15
	Wall Beacon	Ivory case	White LEDs	CHQ-WB/WL	W-2.4-5	W-2.4-6
Red LEDs			CHQ-WB/RL	O	O	W-2.4-5
White case		White LEDs	CHQ-WB(WHT)/WL	W-2.4-5	W-2.4-6	W-2.4-7
		Red LEDs	CHQ-WB(WHT)/RL	O	O	W-2.4-5
Red case		White LEDs	CHQ-WB(RED)/WL	W-2.4-5	W-2.4-6	W-2.4-7
		Red LEDs	CHQ-WB(RED)/RL	O	O	W-2.4-5

*4 Ratings are all based on 0.5Hz frequency.

Current when Beacon active

CHQ-CB/WL&RL & CHQ-WB/WL & RL	mA	6	12	17
CHQ-CB/WL-15	mA	6	12	38
CHQ-WSB2/WL&RL	mA	7 (one setting only)		
YBO-BSB2/WL&RL	mA	7 (one setting only)		

For CHQ-CB/WL & RL Default setting is **C-3-7.5**

For CHQ-CB/WL-15 Default setting is **C-3-15**

Note: Our VAD product codes feature “WL” which means white LEDs and “RL” which means red LEDs.

For details of O Rating for Ceiling Beacon please see Application Note **AP131**.

For details of O Rating for Wall Sounder Beacon see Application Note **AP132**.

For details of O Ratings for Base Sounder Beacon please see Application Note **AP133**.