ESP **VAD**
Intelligent

YBO-BSB2

Analogue Addressable Base Sounder Beacon

Features

- Single Loop Address - addressed via the TCH-B200 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, Ivory, White or Black Case
- SIL Level 2 approved variant available

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 YBO-BSB2(WHT) YBO-BSB2(BLK)	Ivory case White case Black case	/WL /RL	White LEDs Red LEDs
Operating voltage	17 ~ 41 VDC			
Low power mode (typical)	110 µA			
Quiescent current (typical)	250 µA			
Sounding current (typical)	0.8 mA (50 dB(A) @ 1m) ~16 mA (98 dB(A) @ 1m)			
Additional current when beacon active	+ 7 mA			
Sound output at 1m	50 ~ 98 dB(A) (±2 dB(A)) @ 24 VDC or above (EN54-3 compliant)			
Number of tones	51			
Tone frequency range	300 ~ 2850 Hz			
Operating temperature range	-10ºC to +50ºC			
Storage temperature range	-30ºC to +70ºC			
Maximum humidity	95%RH Non-condensing (at 40ºC)			
Colour / Case material / Lens material	Ivory, White or Black / PC ABS / Translucent PC			
IP rating	IP21			
Weight (g) / Dimensions (mm)	124 / Ø 113 x H 43			
Base fixing centres (mm)	48 ~ 74			

*1 Panel compatibility dependant

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Note: Although the TCH-B 200 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.

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.

What type of VAD?	Which case colour?	Which LED colour?	Product	EN-54-23 Ratings*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			

				0	1	2
Ceiling Beacon	Ivory Case	Red LEDs	CHQ-CB/RL	C-3-1.5	C-3-8.6	C-3-10
		White LEDs	CHQ-CB/WL	C-3-6.5	C-3-7.9	C-3-10
			CHQ-CB/WL-15	'O'	C-3-11.4	C-3-15.1
	White Case	Red LEDs	CHQ-CB(WHT)/RL	C-3-1.5	C-3-8.6	C-3-10
		White LEDs	CHQ-CB(WHT)/WL	C-3-6.5	C-3-7.9	C-3-10
			CHQ-CB(WHT)/WL-15	'O'	C-3-11.4	C-3-15.1
	Red Case	Red LEDs	CHQ-CB(RED)/RL	C-3-1.5	C-3-8.6	C-3-10
		White LEDs	CHQ-CB(RED)/WL	C-3-6.5	C-3-7.9	C-3-10
			CHQ-CB(RED)/WL-15	'O'	C-3-11.4	C-3-15.1
Wall Beacon	Ivory Case	Red LEDs	CHQ-WB/RL	'O'	W-2.4-5	W-2.4-5.5
		White LEDs	CHQ-WB/WL	W-2.4-5	W-2.4-5.5	W-2.4-7
	White Case	Red LEDs	CHQ-WB(WHT)/RL	'O'	W-2.4-5	W-2.4-5.5
		White LEDs	CHQ-WB(WHT)/WL	W-2.4-5	W-2.4-5.5	W-2.4-7
	Red Case	Red LEDs	CHQ-WB(RED)/RL	'O'	W-2.4-5	W-2.4-5.5
		White LEDs	CHQ-WB(RED)/WL	W-2.4-5	W-2.4-5.5	W-2.4-7

Current when Beacon Active

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

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

For details of 'O' Rating data for	Ceiling Beacon and Wall Beacon	See	Application Note **AP131**
	Wall Sounder Beacon		Application Note **AP132**
	Base Sounder Beacon		Application Note **AP133**

All Application Notes are available to download from our web site.
For CHQ-CB/WL & RL Default setting is C-3-7.5, for CHQ-CB/WL-15 Default setting is C-3-15
³ All ratings are all based on 0.5Hz frequency.
⁴ Full 'O' rating data available in our Application Notes (see below).

For further information visit our website.
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