

# ESP intelligent VADS

## CHQ-CB

ADDRESSABLE LOOP-POWERED CEILING BEACON



### Features

- ▶ Loop powered
- ▶ Single loop address via TCH-B200
- ▶ High Intensity LED technology
- ▶ 0.5/1 Hz flash frequency
- ▶ Choice of 2 LED colours (red or white)
- ▶ Choice of three case colours, white, ivory or red
- ▶ Approved to EN54-23:2010 – Category ‘C’
- ▶ High efficiency
- ▶ Selectable light output\*1
- ▶ Operating voltage 17-41 V DC
- ▶ PSU Powered option\*1.



CHQ-CB(RED)

### Description

An addressable loop-powered beacon, with a high intensity LED and a custom designed free-form optic which produces a highly visible flash. Coverage diameters include 5m, 7.5m, 10m and 15m\*2. The unit is designed to fit a wide

range of ESP bases (see table below) and is available with an ivory, white or red casing with red or white LEDs.

### Specification

Operating Voltage	17 ~ 41 VDC
Quiescent Current (typ)	250 $\mu$ A
Current when Beacon active	See next page
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	Red, White or Ivory / PC+ABS
Compatible Bases	Ivory case - YBN-R/3, YBN-R/3(SCI), YBO-BS (base sounder) White case - YBN-R/3(WHT), YBN-R/3(WHT)-SCI, YBO-R/SCI(WHT-SNDR), YBO-BS(WHT) (base sounder) Red case - YBO-R/3(RED), YBO-R/SCI(RED)
Lens Material	PC
Ingress Protection Rating	IP21 (IP33 when used inconjunction with CHQ-WPK Weatherproofing Kit)
Weight (g)/Dimensions (mm)	120 / D100 x H41
Base Fixing Centres (mm)	48 ~ 74

\*1 Panel compatibility dependant

\*2 0.5Hz flash frequency white LED

### 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 produce a 5 metre diameter coverage.

What type of VAD?	Which case colour?	Which LED colour	Product	EN54-23 Raings *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	‘0’	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	‘0’	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-3-15.1	
			CHQ-CB(RED)/WL-15	‘0’	C-3-11.4	C-3-15.1	
	Wall Beacon	Ivory case	Red LEDs	CHQ-CB/RL	‘0’	W-2.4-5	W-2.4-5.5
			White LEDs	CHQ-CB/WL	W-2.4-5	W-2.4-5	W-2.4-5.5
		White case	Red LEDs	CHQ-CB(WHT)/RL	‘0’	W-2.4-5	W-2.4-5.5
White LEDs			CHQ-CB(WHT)/WL	W-2.4-5	W-2.4-5.5	W-2.4-7	
Red case		Red LEDs	CHQ-CB(RED)/RL	‘0’	W-2.4-5	W-2.4-5.5	
		White LEDs	CHQ-CB(RED)/WL	W-2.4-5	W-2.4-5.5	W-2.4-7	

For CHQ-CB / WL & RL Default settings 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).

### Current when Beacon Active

CHQ-CB / WB&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 website.