# Addressable Loop-Powered Beacon
## CHQ-CB



## Features

▸ Loop Powered

▸ Single loop address via TCH-B100

▸ High Intensity LED technology

▸ 0.5/1 Hz flash frequency

▸ Addressable via TCH-B100

▸ Choice of 2 LED colours (red and white)

▸ Approved to EN54-23:2010 – Category 'C'

▸ High efficiency

▸ Selectable light output[1]

▸ Operating voltage 17-41 vdc

▸ PSU Powered option[1]

## 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 diameter[2]. The unit is designed to fit the YBN-R/3, YBN-R/3(SCI), YBO-BS or the YBO-R/(SCI), and is available with Red or White LEDs.

## Specification

| | |
|---|---|
| Ordering Codes | CHQ-CB/RL, CHQ-CB/WL, CHQ-CB/WL-15, CHQ-CB(WHT)/RL, CHQ-CB(WHT)/WL, CHQ-CB(WHT)/WL-15, CHQ-CB(RED)/RL, CHQ-CB(RED)/WL, CHQ-CB(RED)/WL-15 *(See page 2 for further details)* |
| Operating Voltage | 17 ~ 41 Vdc |
| Quiescent Current (typ) | 250 uA |
| Current when Beacon active | *See page 2* |
| 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 |
| Lens Material | PC |
| Ingress Protection Rating | Indoor (Type A) IP21 Outdoor (Type B) IP33[3] (Target IP65) |
| Weight (g)/Dimensions (mm) | 120 g, D100 mm, H41 mm |
| Base Fixing Centres (mm) | 48 ~ 74 |

[1] Panel compatibility dependant [2] 0.5Hz flash frequency white LED [3] Requires Weatherproof Kit

**Note: Although the TCH-B100 Hand Held Programmer will allow addresses between 128 and 255 to be programmed into the CHQ-WSB2, 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 x 5 metre coverage.

| What type of VAD? | Which case colour? | Which LED colour? | Product | EN54-23 Ratings[*4] | | |
|---|---|---|---|---|---|---|
| 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 | | | |
| | | | | **1** | **2** | **3** |
| 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 |
| | | | CHQ-CB/WL-15 | O | C-3-10 | C-3-15 |
| | White case | 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 |
| | | | CHQ-CB(WHT)/WL-15 | O | C-3-10 | C-3-15 |
| | Red case | 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 | W-2.4-7 |
| | | 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 (Beacon Only) | 7 (one setting only) | | |
| YBO-BSB2/WL&RL | mA (Beacon Only) | 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**.