

# 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 AS7240.23 – Category ‘C’
- ▶ High efficiency
- ▶ Selectable light output\*1
- ▶ Operating voltage 17-41 V DC
- ▶ 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\*2. The unit is designed to fit a wide range of ESP bases (see below table) 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)<br>White case - YBN-R/3(WHT), YBN-R/3(WHT)-SCI, YBO-R/SCI(WHT-SNDR), YBO-BS(WHT) (base sounder)<br>Red case - YBO-R/3(REDF), YBO-R/SCI(REDF) |
| 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           | AS7240.23 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      | '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   |
|                     | 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.