ESP VAD
Intelligent

CHQ-CB

Analogue 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].

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

Ordering codes	CHQ-CB - Ivory / CHQ-CB(WHT) - White / CHQ-CB(RED) - Red
Operating Voltage	17 – 41 VDC
Quiescent Current (typ)	250 µA
Current when beacon active	See page 2/2 --->
Operating / Storage Temperature Range	-10 ºC to + 50 ºC / -30 ºC to +70 ºC
Maximum Humidity	95% RH - non-condensing (at 40ºC)
Colour / Case Material	Ivory, Red or White / ABS
Lens Material	PC
Weight (g) / Diameter (mm) / Height (mm)	120 / ø 100 x 41
Base Fixing Centres (mm)	48 ~ 74
IP rating	IP21 (IP33 when used in conjunction with CHQ-WPK Weatherproofing Kit)*[3]
Compatible base	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)

*[1] Panel compatibility dependant   *[2] 0.5Hz flash frequency white LED   *[3] VdS approval to Type A only (HFP variant not approved by VdS)

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.

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VAD type	Case colour	LED Colour	Product	EN54-23 rating*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	YBO-BSB2(WHT)/WL			
		Red LEDs	YBO-BSB2(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-WB/RL	'0'	W-2.4-5	W-2.4-5.5
		White LEDs	CHQ-WB/WL	W-2.4-5	W-2.4-5	W-2.4-5.5
	White Case	Red LEDs	CHQ-WB(WHT)/RL	'0'	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	'0'	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

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/ WL + RL and 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 Sounders	See	Application Note 131
	Wall Sounder Beacon		Application Note 132
	Base Sounder Beacon		Application Note 133

All application notes are available to download from our website.

For further information visit our website.

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