

# SPECIFICATION

0-10V Dimming Controller

Model: HLCD33-Z-SC-BS-1C-BEAC-WP-OTA-3.0

Version: V1.0

Issue Date: 2023-09-19

PREPARED	R&D CHECKED	APPROVED
		

## 1. Features

- Input 12Vdc
- Output 0-10V dimming signal
- Communication distance 100m
- Support ZigBee 3.0 standard protocol
- Support OTA upgrade
- Protection class IP65
- Operating Temperature -40°C ~ 85°C

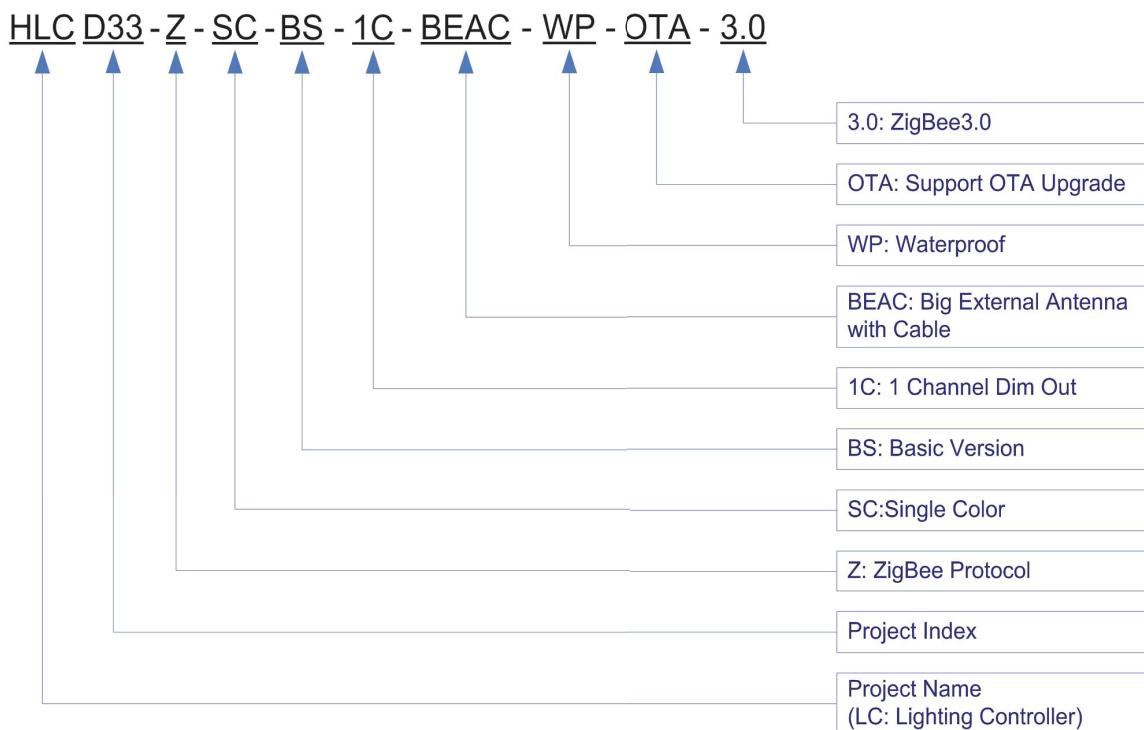


## 2. Product Description

HLCD33 is a dimming controller with built-in ZigBee transceiver module, suitable for all 0-10V dimming power supplies with 12V auxiliary source on the market.

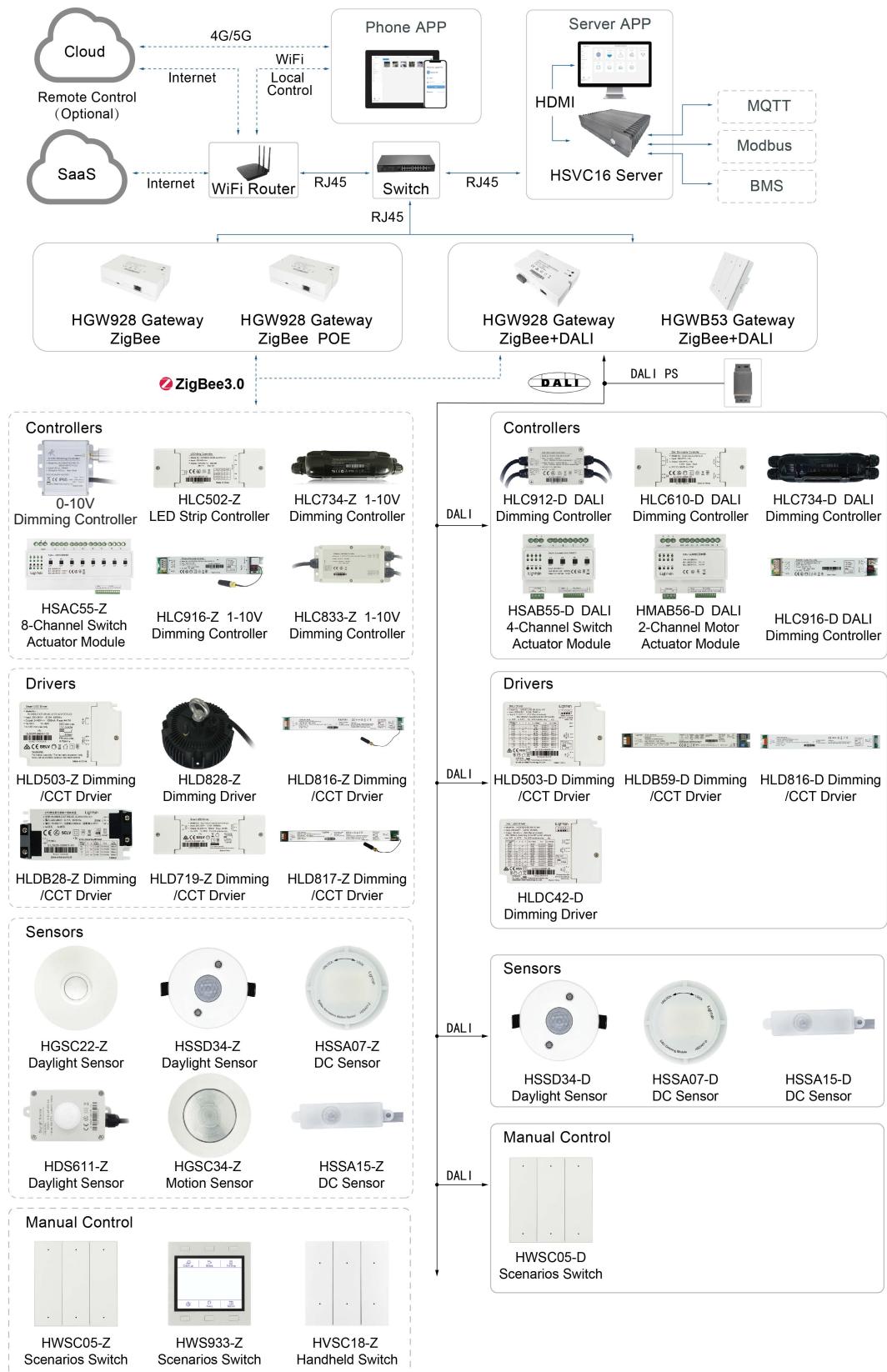
When this controller works with our ZigBee lighting control system, it can realize automatic intelligent control through mobile phone APP and dimming panel.

## 3. Part No.



## 4. Diagram

Controller is added in APP by gateway one by one.



## 5. Parameter

Model	HLCD33-Z-SC-BS-1C-BEAC-WP-OTA-3.0
Input Voltage	12Vdc
Input Current	300mA
Dimming output	0-10V
Channel	1
Communication distance	100m
Operating Temperature	-40°C ~ 85°C
Class of protection	IP65
Product size	72.2*66*37mm
Package size	156.4*94.4*44mm
N.W.	235g (no external Antenna) External Cable: +13g, Big Antenna: +55g, BigWaterproof head: +28g
G.W.	368g
Housing Material	Aluminum

## 6. Input/Output

### a. Terminal

DC In	Pink	Input 12Vdc
	Black and white	GND
Dim Out	Purple	Output 0-10V dimming signal

## 7. Software Operation

- After the light fixture connected to the dimmer controller is powered on, it blinks for four times and stays on for a long time, indicating that the device is in the initial state.
- The dimmer controller in the initialization state can be found by application software within 30 minutes after it is powered on.
- After powering on the gateway, open the iLightsIn Pro application on a mobile phone on the same LAN, search for the gateway, and log in using Admin and the default password 00000000.
- Click Search Device to search for the lighting device in the initialized state.
- Luminaires connected to the dimmer controller will be searched into the application software.
- For more details, please refer to the "iLightsIn Pro Operating Instruction Manual.PDF".

## 8. Device Reset

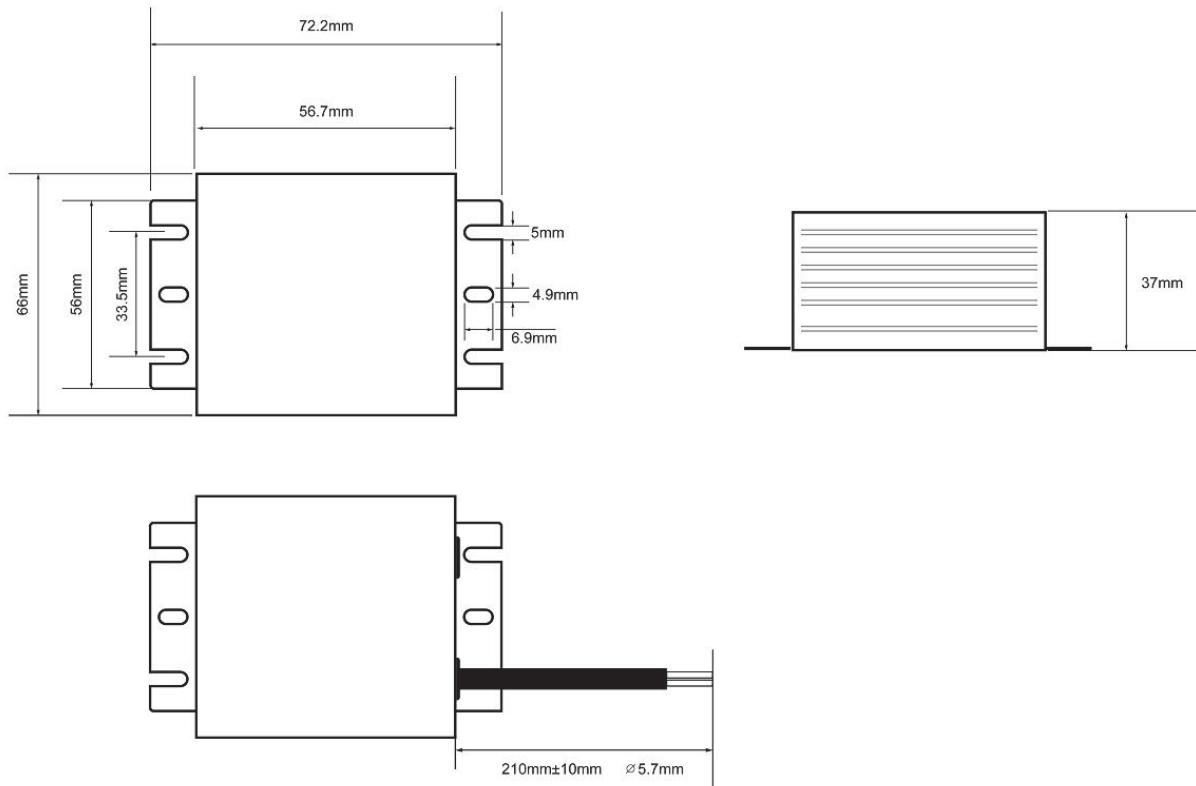
There are two ways to set the dimmer controller to the initialization state:

- After the lamps and gateways connected to the dimmer controller are powered on, delete them from editing devices in the Settings menu of the application software, and confirm that the deletion is successful.
- If the light connected to the dimmer controller is not in the initial state (steady on), power on and off the dimmer controller for four times (the power is off within three seconds, and the power is on once after three seconds). If the light connected to the dimmer controller blinks for the fifth time, the initialization is successful.

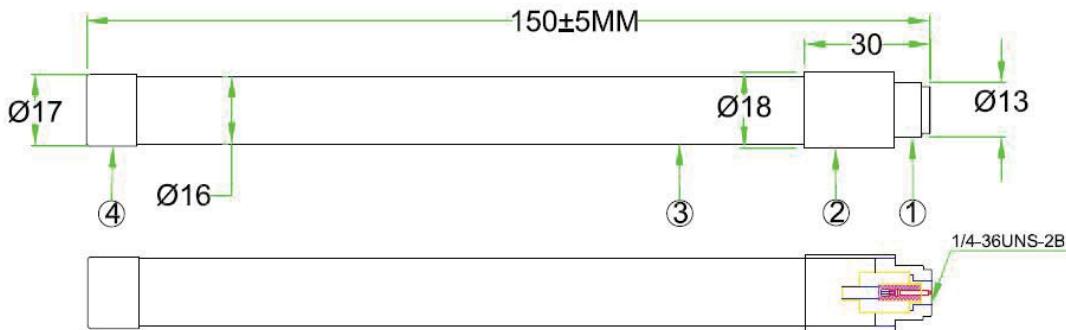
**Note: If the device is not connected to the network within 30 minutes after it is powered on, the device will not be found by the application software and needs to be powered on again.**

## 9. Structure size

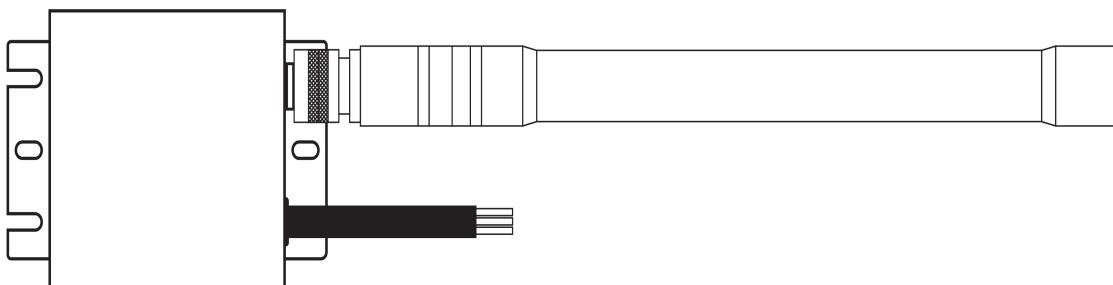
a. Shell size (unit: mm)



## c. External antenna dimensions:



## e. Connect the extension cable and secure the large antenna through the waterproof head



## 10. Warning

a. This device complies with part 15 of the FCC Rules. Operation is subject to the following two conditions:

- (1) This device may not cause harmful interference, and
- (2) this device must accept any interference received, including interference that may cause undesired operation.

Any changes expressly or modifications not approved by the party responsible for compliance could void the user's authority to operate the equipment.

Note: This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC Rules. These limits are

designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio

frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there

is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception,

which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

b. FCC Radiation Exposure Statement:

This equipment complies with FCC radiation exposure limits set forth for an uncontrolled environment.

This transmitter must not be co-located or operating in conjunction with any other antenna or transmitter.

This equipment should be installed and operated with minimum distance 20cm between the radiator & your body.

c. This equipment can only be installed and maintained by trained personnel.

Note: This device will not be sold to the general public, it will be sold to dealers only.