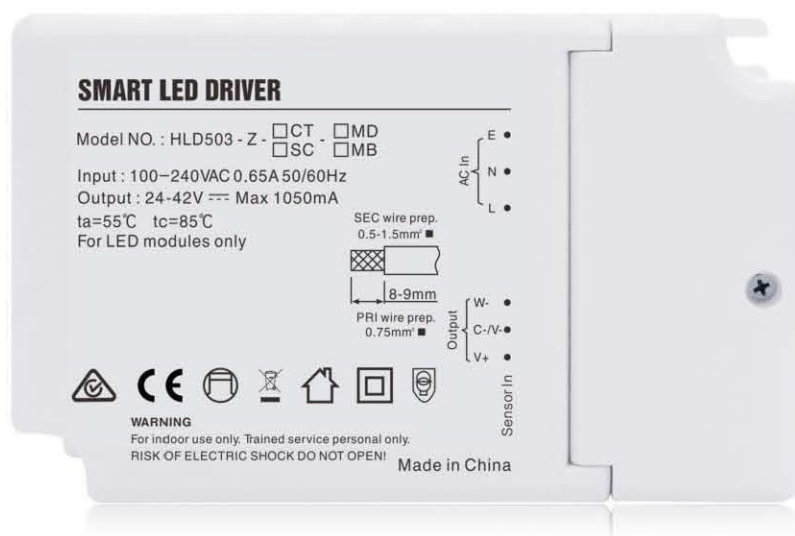Pro wireless lighting control system
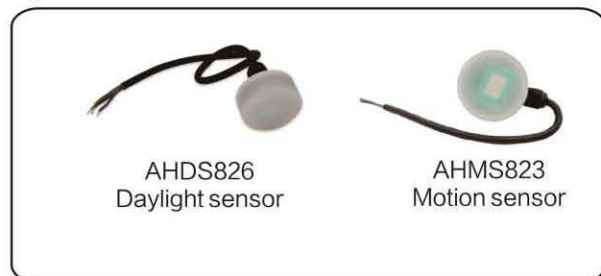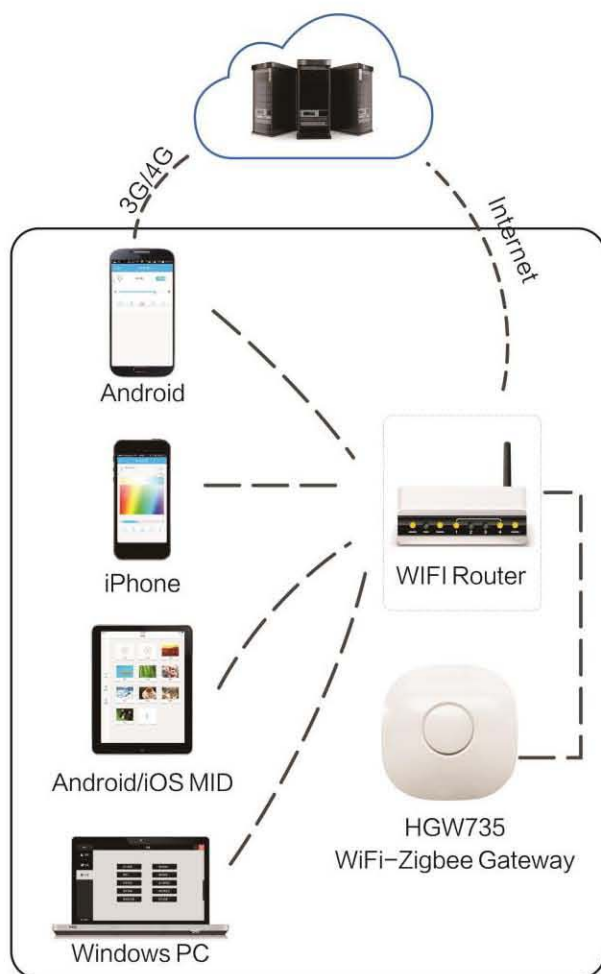
ZigBee HA1.2
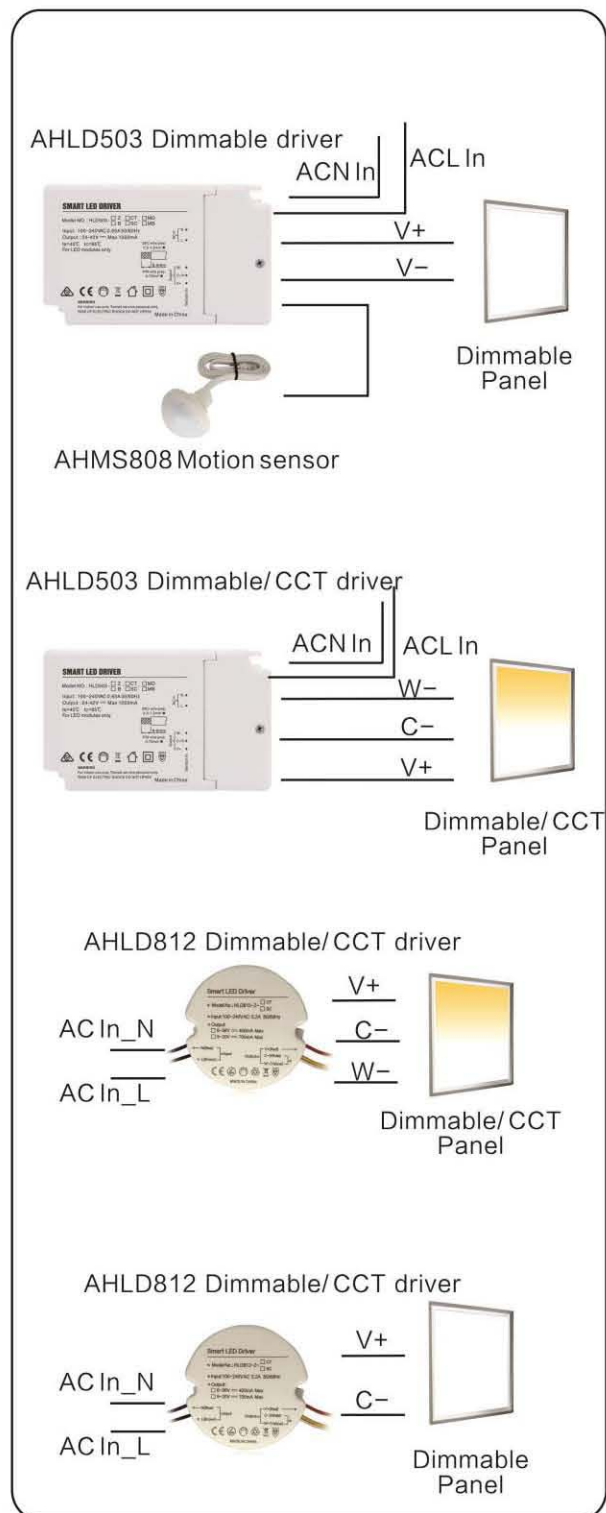# 40W CCT/ SC Dimming Driver

Product Description

AHLD503-Z-XX-XX-XX-XX-EU-XX-OTA-PRO is a kind of ZigBee HA standard dimming driver for single color dimmable and CCT adjustable lights. With OTA and power metering function, this ZigBee driver is mainly applied in home, office, commercial and industrial lighting projects for smart control purposes.

It works with ZigBee lighting control system to achieve long-distance controlling led lights by Mobile Phone, Tablet, PC, Touch Switch, Remote Control, Daylight Sensor and Motion Sensor.

SMART LED DRIVER

Model NO. : HLD503 - Z - □CT - □MD
                         □SC - □MB

Input : 100−240VAC 0.65A 50/60Hz
Output : 24-42V === Max 1050mA
ta=55℃ tc=85℃
For LED modules only

AC In: E, N, L

SEC wire prep.
0.5-1.5mm²

8-9mm
PRI wire prep.
0.75mm²

Output: W-, C-/V-, V+

Sensor In

WARNING
For indoor use only. Trained service personal only.
RISK OF ELECTRIC SHOCK DO NOT OPEN!   Made in China

System Diagram

Control

Lights

Android

iPhone

Android/iOS MID

Windows PC

WIFI Router

HGW735
WiFi-Zigbee Gateway

3G/4G

Internet

2.4G

AHRC811
Remote

AHTP501-ZM-SC
Panel

AHTP501-Z-CT
Panel

AHDS826
Daylight sensor

AHMS823
Motion sensor

AHLD503 Dimmable driver

ACN In   ACL In
V+
V-

AHMS808 Motion sensor

Dimmable
Panel

AHLD503 Dimmable/ CCT driver

ACN In   ACL In
W-
C-
V+

Dimmable/ CCT
Panel

AHLD812 Dimmable/ CCT driver

AC In_N
AC In_L

V+
C-
W-

Dimmable/ CCT
Panel

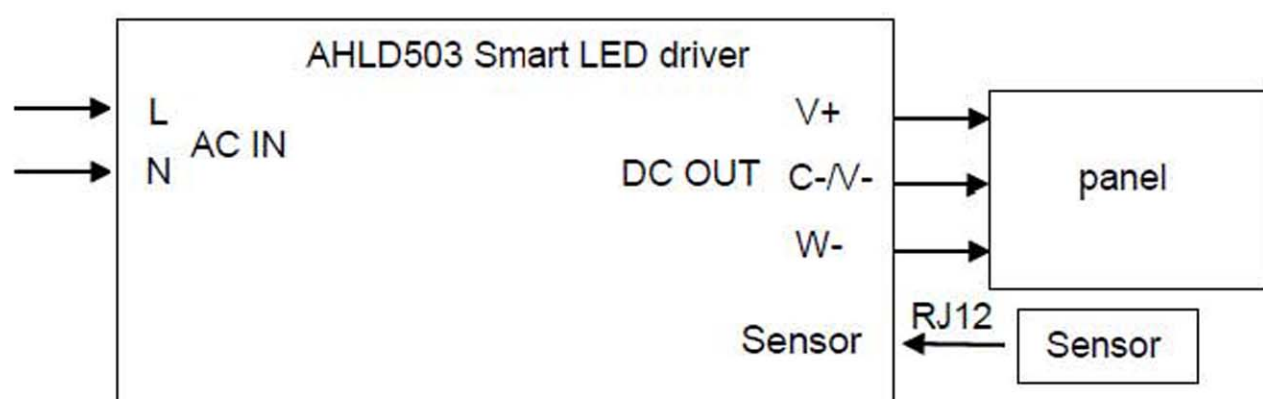AHLD812 Dimmable/ CCT driver

AC In_N
AC In_L

V+
C-

Dimmable
Panel

Wiring Diagram

Caution: Please cut off the main power while installing!

AHLD503-Z-XX-XX-XX-XX-EU-XX-OTA-PRO

Note: Current can be set by an Android APK.
Power metering version without sensor terminal.
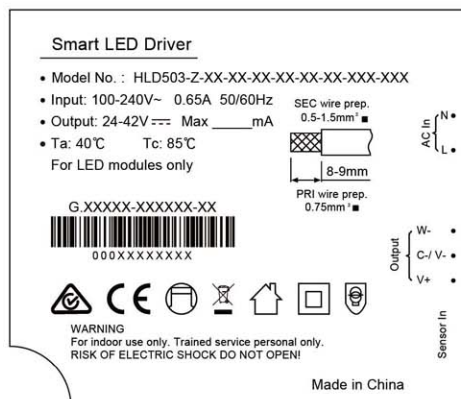
Interface definition

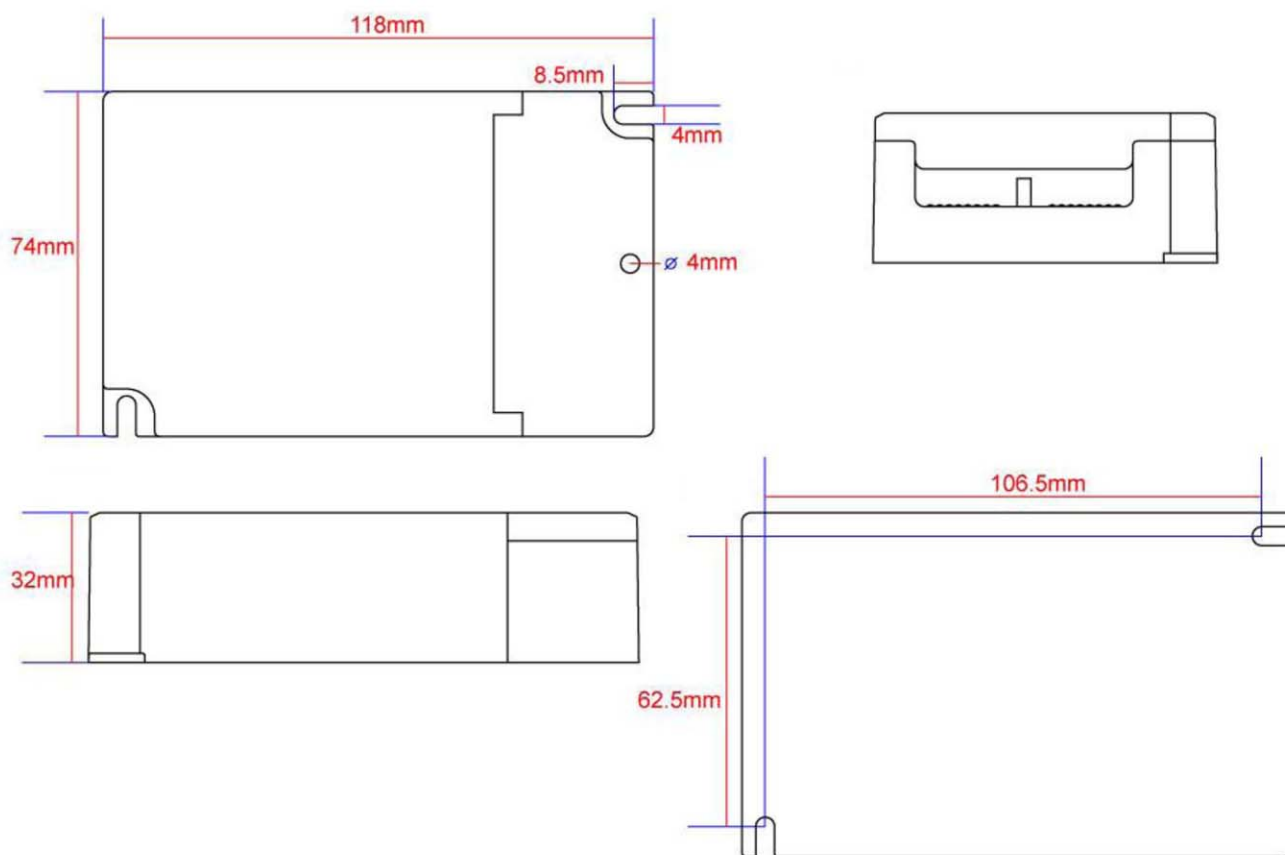| Terminal		Comment
AC Input	L	AC 100V-240V
	N	
LED DC output	W-	2 channels for color temperature adjustable light. (Common Anode).
	C-	
	V+	
	V-	1 channel for single color dimmable (Common Anode).
	V+	
Sensor in	RJ12	Sensor input by RJ12 (Sensor Model:AHMS808/ AHMS810/ AHMS616)

Note:
Max current for this driver is 45W.
While current for each channel can be set according to the fixture lamp voltage.
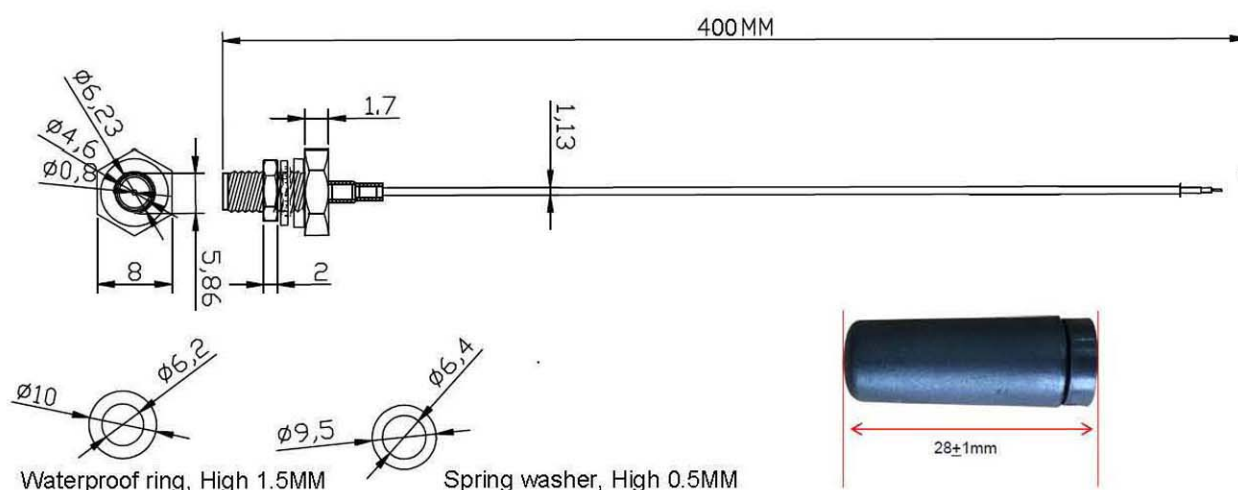
Products OEM

Smart LED Driver
- Model No. : HLD503-Z-XX-XX-XX-XX-XX-XX-XXX-XXX
- Input: 100-240V~ 0.65A 50/60Hz
- Output: 24-42V === Max _____ mA
- Ta: 40℃   Tc: 85℃
  For LED modules only

SEC wire prep.
0.5-1.5mm²
8-9mm
PRI wire prep.
0.75mm²

AC In N
       L

G.XXXXX-XXXXXX-XX

000XXXXXXXX

Output W-
        C-/ V-
        V+

Sensor In

WARNING
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Made in China

Laser content can be customized.

Product Dimension

External Antenna Dimension

Waterproof ring, High 1.5MM

Spring washer, High 0.5MM

28±1mm

Software Operation

1. Initial states. Indicator light will flick for 4 times and then keep on when first AC power on the ZigBee driver.
2. Add device. AC power on ZigBee gateway, open the App Pro and login. Click "Add Device" in "Setting" page, "Select Gateway" and "Search" the ZigBee driver. Name this driver and save.
3. Setting. Create a new area by clicking "Add Area" on "Area" page, add this driver in this area and save. Click it and do color and brightness setting.
4. More operating details find in "HGW735 User Manual".

Initial States Setting

1. Delete the ZigBee driver on the "Pro" App with it AC power on.
2. AC power off the ZigBee driver within 3 seconds when it is AC power on. And, AC power on again after 3 seconds. Repeat for 4 times.
3. Lights will flick 4 times and then keep on if reset successfully.
4. Data will be cleaned up if reset successfully