

UJS Light Sheet

English Controller Datasheet

DLC001_V2.0

Category: LED Dimming Drivers and Accessories
Source model: DLC001_V2.0
Internal reference: HOION-CTRL-105

Product Overview

2.4G Wireless Self-inspection Sync Dimming Constant Current Driver (DIM)

Technical Details

Features

- 1) Isolated power supply
- 2) Adopt PWM technology
- 3) High efficiency/High PF/ flicker-free
- 4) With Power off memory function
- 5) RF wireless / 0-10V wired control 2 in 1
- 6) High quality smooth dimmingï¼Œ1024 gradesï¼Œ
- 7) Over loading, over voltage, short circuit protection
- 8) 2.4GHz wireless controlï¼ŒAir Self-inspection Sync control
- 9) With TUYA-2.4G converter module, it can realize mobile phone intelligent lighting system control
- 10) Applicable lamps: LED panel, LED ceiling lamps, LED down light and others constant current lights
- 11) Applicable place: Home, Shop, Hotel, Office and so on household/commercial indoor lighting
- 12) Certification: CE/R&TTE/LVD/Rohs
- 13) Warranty 3 years

Technical Parameters

| Electrical Performance Test are all in 25â„ƒï¼Œ±10% temperature environmentï¼Œ230VAC/50HZ input

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Factor |
Index |
Parameter

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Type | Isolated | Class II

| Certification | CE

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Remote Control | RF Frequency | 2.4GHz

| Distance | 30m

| Memory Function | Yes

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0-10V | Signal Connector | 2Pin

| Wire | 22-14 AWG

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Input | Input Connector | 3Pin, L/N

| Wire | 26-16 AWG

| Voltage Range | 90-264VAC

| Frequency Range | 47-63Hz

| Rate Current | 0.18A

DLC001_V2.0

| Power Factor | PF | 0.9 | full load

| THD | 19%

| Overall Efficiency | 84%(full load)

| Standby Power | $\leq 0.8\text{W}$

| Surge Voltage | 3KV

| Surge Current | 40A (230VAC)

| | Output Connector | 2Pin, V+/V-

Output | Wire | 22-12AWG

| Output Voltage Range | 18V-42VDC

| String Number | 6-12 string

| Output Current | 450mA-800mA (settable by DIP switch)

| MAX Output Power | 32W

| Current accuracy | $\pm 5\%$

| PWM Signal Output Frequency | 1KHz

| Dimming Grade | 1024

| Dimming Range | 3-100%

| Video effect | Free-flicker

Protection | IP | IP40

| Over Voltage Protection (OVP) | Yes ☒ up to 53V ☒

| Short Circuit Protection (SCP) | Yes (restore output automatically after short circuit remove)

| Overpower Protection (OPP) | Yes (up to 40W)

Reliability | Storage temperature | -40~85°C (relative humidity 20%~90% non-condensing)

| Working Temperature Ta | -20ï½°45â°

| Case Max Working Temperature Tc | 85℃ (working temperature 45℃~1¼℃Max power)

| Life | 4800 hours (25°C±10% temperature environment) ¼ 230VAC input, 100% LOAD)

| Warranty | 3 years

Safety and EMC | Certification CE LVD | EN61347-1 EN61347-2-13

Electromagnetic Compatibility CEâEMC | EMIr¼âEN55015r¼â

| Hi-Pot Test | I/P-O-P:3.75KVDC

Others | Product G.W. | 162g

| Product Size | L163*W46*H25mm

Port Instruction

DIP switch & current

| 450mA | 500mA | 550mA | 600mA | 650mA | 700mA | 750mA | 800mA

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Product Compatibility: Applicable for remote:

| Item: HX-RFBT-2.4Gi 1 zone | | Item: HX-RFBT10-2.4G (4 zone) | | Item: HX-RFBT12-2.4Gi 1 zone |

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| Item: HX-RFBT15i 1 zone | | Item: HX-HWP86-CCT-4Si 4 zone | | Item: HX-HWP86-XSPi 4 zone |

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| Item: HX-HWP86-SRi PIR/Lux-sensor | | Item: HX-WP86-AP (RF signal repeater) | Item: HX-TUYA-2.4G-CCT

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Typical Applications

- 1) Compatible with a variety of models of remote control at the same time, could be matched according to project situation
- 2)

Wireless-synchronization function

Receivers which with wireless-synchronization functions will transmit the control signals from the remote control and self-inspection the work statues for each other, so multiple receivers in same zone will wireless-sync-work completely, not only static mode but also dynamic mode, to achieve wired-like operation experience. The distance up to 20 meters between remote control to receiver, and up to 10 meters between 2 receivers. RF wireless signal repeater is suggested in over range distance or when the workable distance is shorter by the materials of space, the effective range up to 30 meters.

- 3) 1 zone remote typical application, multi drivers could be wireless-sync controlled by the same one remote control.
- 4) 4 zones remote typical application, multi drivers could be controlled in each zone. 4 zone could be respectively and allover controlled
- 5) With TUYA-2.4G converter module, it can realize mobile phone intelligent lighting system control

Tips:

- 1) If the lamp turned off by remote control, it also can restart the lamp directly by the AC power switch(No-flicker driver need to restart after turn off the power switch and discharge for 5s.
- 2) If the lamp is light up without any operation in 167 hours, the driver will turn off the lamp automatically. It will recount the time if there is any operation from power switch or remote control.
- 3) Memory function, each time power-on reserve the mode which stop in the last power-down.
- 4) For operations and precautions related to lighting system settings, please refer to the operating instructions of the relevant remote control.

Source reference: <https://www.hoionlighting.com/a/pics/ledkongzhiqu/2021/0416/294.html>