

2.4G HC-X Driver(1/4□5-12W) V1.1.1

Category: LED Dimming Drivers and Accessories

Source model: 2.4G HC-X Driver(1/4□5-12W) V1.1.1

Internal reference: HOION-CTRL-102

Product Overview

2.4G Wireless Air Self-inspection Sync CCT Constant Current dimming Driver

Technical Details

Features

- 1) Isolated driver
- 6) Memory function
- 7) 2.4GHz wireless remote control, Air Self-inspection Sync control
- 8) With TUYA-2.4G converter module, realized phone, PAD, WIFI smart control
- 9) Designed for constant current CW+WW LED Light Fixtures: like LED panel, LED ceiling lamps, LED down light etc.
- 10) Widely used for intelligent household/commercial indoor lighting, like mall, hotel, office indoor lighting design.
- 11) Certificate: CE/EMC/RED/RoHS
- 12) 3 years warranty

Technical Parameters

| Electrical performance tests based on condition of ambient temperature:25 ° C ± 10%, and 230VAC / 50HZ input

|

Factor |

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Parameter |

Marks

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Type | Isolated | CLASS II |

| Certification standards | CE ROHS |

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Control Method | Remote control | 2.4GHz RF |

| Distance | Up to 30m |

| Memory function | Yes |

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Input | Voltage range | 90-264VAC | 90-264VAC

| Frequency range | 47-63Hz | 47-63Hz

| $\frac{1}{4}$ Rated current | 0.11A(1/4 full load) | 230V AC

| Surge voltage | 3KV |

| Surge current | 1/4 69A | 230V AC

| Standby power | ≤0.9W | OFF state

| Efficiency | >83%(full load) |

| Port | Three lines input(1/4□L/N/FG) | L/N/FG, FG as optional

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Output | Port | Three lines output, common anode |

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| Voltage range | 30-42V DC |

| Led string | 10-12 LEDs |

| Output current | 130-300mA |

| Max. output watt | 12W(1/4 CW+WW)(1/4) |

| Current Accuracy | ±5% |

| PWM frequency for CCT | 15.6KHz |

| Dimming range | 3-100% | 3-100%

| Camera effect | non-flicker | non-flicker

| Adjustment levels | 1024 |

|

Reliability | Power supply solution | isolated power supply | isolated power supply

| Ambient temperature Ta | -20(1/2 45() | -20(1/2 45()

| Case temperature Tc | 85()

(based on work environment temperature at 45(), And Max power supply) | 85()

(based on work environment temperature at 45(), And Max power supply)

| Storage temperature | -40(1/2 85()

(relative humidity 20%~90% non-condensing) | -40(1/2 85()

(relative humidity 20%~90% non-condensing)

| Life time | 50000hours | based on work environment temperature 25()±10%(1/4 230VAC input

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Safety and

EMC | CE() LVD | EN61347-1() EN61347-2-13

| CE() EMC | EMI(1/4 EN55015(1/4)

| Withstand voltage | I/P-O-P:3.75KVAC (I/P-FG)1.5KVAC (O/P-FG) 1.5KVAC

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protection | Dustproof waterproof level | IP40 |

| Over voltage protection | Yes | Maximum 44V

| Short-circuit protection | Yes | Into the intermittent mode when short circuit, short circuit relieve automatically restore the output

| Over power protection | Yes | 120% rated output power

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Others | G.W | 75g |

| G.W | 83g |

| Product dimensions | L75*W38*H19mm |

| Packing dimensions | L90*W45*H28mm |

| | Remark | the sum current of two channels for CCT driver don't exceed the maximum value of single channel current, that is, the maximum brightness is : 50%CW+50%WW.

Main-product code and Parameters

| Model | Rate Power | Rate Current/CH | Voltage Range | Series LED

| HCT/HCBT/HCWP86/HCBK-12-030 | 12W | 300mA | 30-42V DC | 10(1/2 12 string

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| HCT/HCBT/HCWP86/HCBK-11-028 | 11W | 280mA | 30-42V DC | 10i½□12 string
| HCT/HCBT/HCWP86/HCBK-11-027 | 11W | 270mA | 30-42V DC | 10i½□12 string
| HCT/HCBT/HCWP86/HCBK-10-026 | 10W | 260mA | 30-42V DC | 10i½□12 string
| HCT/HCBT/HCWP86/HCBK-10-025 | 10W | 250mA | 30-42V DC | 10i½□12 string
| HCT/HCBT/HCWP86/HCBK-10-024 | 10W | 240mA | 30-42V DC | 10i½□12 string
| HCT/HCBT/HCWP86/HCBK-09-023 | 9W | 230mA | 30-42V DC | 10i½□12 string
| HCT/HCBT/HCWP86/HCBK-09-022 | 9W | 220mA | 30-42V DC | 10i½□12 string
| HCT/HCBT/HCWP86/HCBK-08-020 | 8W | 200mA | 30-42V DC | 10i½□12 string
| HCT/HCBT/HCWP86/HCBK-07-018 | 7W | 180mA | 30-42V DC | 10i½□12 string
| HCT/HCBT/HCWP86/HCBK-06-016 | 6W | 160mA | 30-42V DC | 10i½□12 string
| HCT/HCBT/HCWP86/HCBK-06-015 | 6W | 150mA | 30-42V DC | 10i½□12 string
| HCT/HCBT/HCWP86/HCBK-05-013 | 5W | 130mA | 30-42V DC | 10i½□12 string

Interface Specification

i¼□Three lines output, common anodei¼□

Wire specifications recommend

i¼□

Input wire

i¼□ three-core PVC plastic wire H05VV-F i¼□diameter =0.72mmi¼□VDE certificatei¼□core 3*1.0mm2. 300/500Vi¼□Stripping 11mm and tin dipping 3mm for the end of wire which is directly connect with the driver.

Output wire

i¼□ three-core PVC plastic wirei¼□diameter =0.5mm. Stripping 11mm and tin dipping 3mm for the end of wire which is directly connect with the driver.

Product compatibilityi¼□Remote control optionali¼□

| Itemi¼□HX-RFBT-2.4Gi¼□1 zonei¼□ | Itemi¼□HX-RFBT10-2.4G (4 zone) | Itemi¼□HX-RFBT12-2.4Gi¼□1 zonei¼□

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| Item: HX-RFBT15i¼□1 zonei¼□ | Item: HX-HWP86-CCT-4Si¼□4 zonei¼□ | Item: HX-HWP86-XSPi¼□4 zonei¼□

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| Item: HX-HWP86-SRi¼□PIR/Lux-sensori¼□ | 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

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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/ledkongzhiqi/2021/0416/291.html>