

Hand Swipe Induction CCT Dimmer

Model No.: E2-B

Hand swipe induction / Push dim / Max.3A output / Aluminum profile installation



FC CE RoHS EMC LVD

Features

- Hand swipe induction CCT dimmer, connected directly to the color temperature low-voltage LED strip.
- When hand swipe, switch between brightness and color temperature adjustment.
When hold hand short for on/off and long for adjust brightness / color temperature continuously.
- Connect with external two push switches, one is used for on/off and adjusting brightness, the other is used for adjusting color temperature.
- Max 3A output current, max output power 72W@24V.
- Generally installed in the aluminum lamp strip housing.
- 3M paste in the bottom of the PCBA make easy installation and security.
- Low cost and high stability.
- Widely used in table lamps, bedroom lamps, wardrobe lights, etc.

Technical Parameters

Input and Output	
Input voltage	12-24VDC
Output voltage	12-24VDC
Output power	Max. 36W@12V Max. 72W@24V

Safety and EMC	
EMC standard (EMC)	ETSI EN 301 489-1 V2.2.3 ETSI EN 301 489-17 V3.2.4
Safety standard(LVD)	EN 62368-1:2020+A11:2020
Certification	CE,EMC,LVD

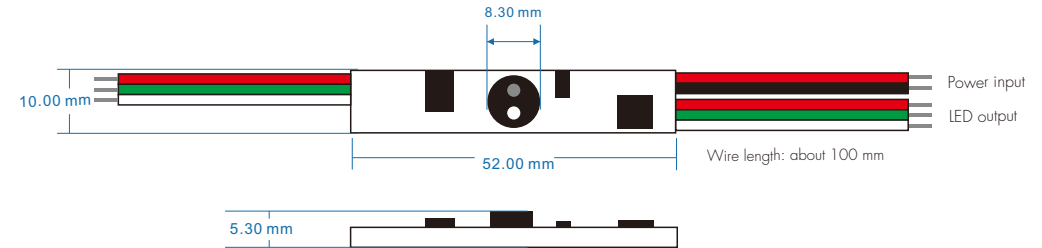
Environment	
Operation temperature	Ta:-20°C ~ +50°C

Dimming data	
Input signal	Hand Swipe / Push DIM
Dimming gray scale	4096 levels
Dimming range	0-100%
Dimming curve	Linear
PWM Frequency	2000Hz (default)

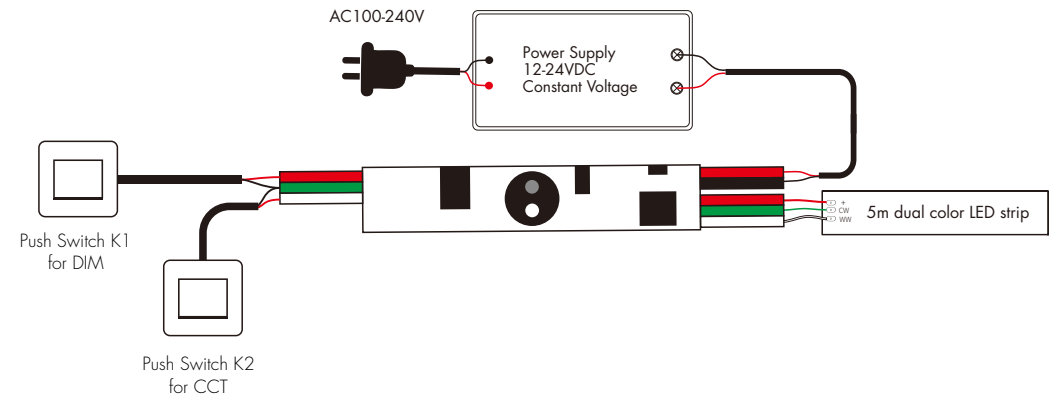
Sensor data	
Detective distance(cm)	≤6
Detective angle (°C)	15-30

Warranty and Protection	
Warranty	5 years
Protection	Reverse Polarity

Dimension

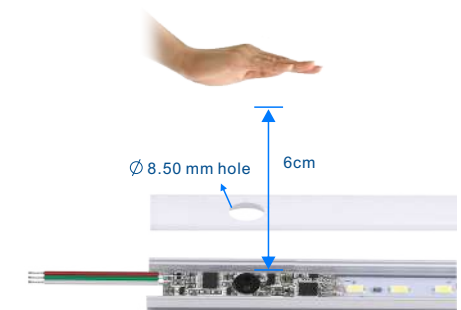


Wiring Diagram



Installation attention

- Cut a hole in size $\varnothing 8.5\text{mm}$ on the PC cover.
- Put mini sensor switch into profiles when power is off, put the detector head to the hole.
- Pay attention to power input and LED output polarity.



Hand swipe control

- Hand swipe (<1 s): Switch between brightness and color temperature adjustment.
- Hold hand (<1 s): Turn on/off the light.
- Hold hand (>1 s): Adjust brightness or color temperature continuously, with every other long hold hand, the brightness or color temperature level goes to the opposite direction.

Push-DIM control

Push switch K1:

- Short press: Turn on / off the light gradually.
- Long press(1-6s): Adjust brightness continuously, with every other long press, the light level goes to the opposite direction.

Push switch K2:

- Short press: Change 3 levels color temperature (WW, NW and CW) in sequence.
- Long press(1-6s): Adjust color temperature continuously, with every other long press, the color temperature level goes to the opposite direction.

Notice:

1. NW = 50% WW + 50% CW
2. For color temperature adjustment, if the current brightness is lower than 30%, the brightness will auto restore 30% to avoid light flash.

Dimming curve

