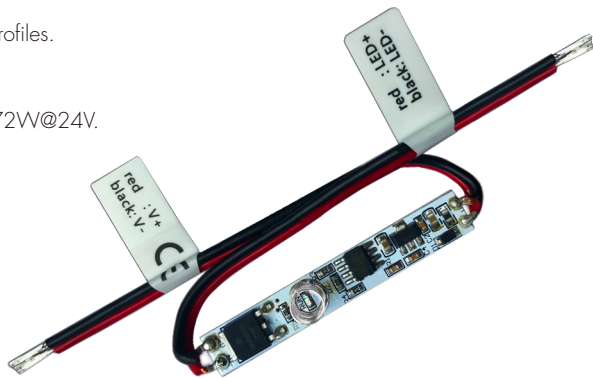# E1-C

Single Color LED PCBA Mini Touch Dimmer

- 1 channel constant voltage single color LED mini sensor dimmer & switch for aluminum profiles.

- High sensitivity touch operation with LED indicator.

- 3A per channel, output connect with 5 meters single color LED strip, max output power 72W@24V.

- 4 PWM frequencies selectable:125Hz(default), 500Hz, 2000Hz, 8000Hz.

- 0-100% dimming smoothly without any flash.

- The media on the touch spring can be PC cover, acrylic board or mirror glass.

- 3M paste in the bottom of the PCBA make easy installation and security.

- Low cost and high stability.

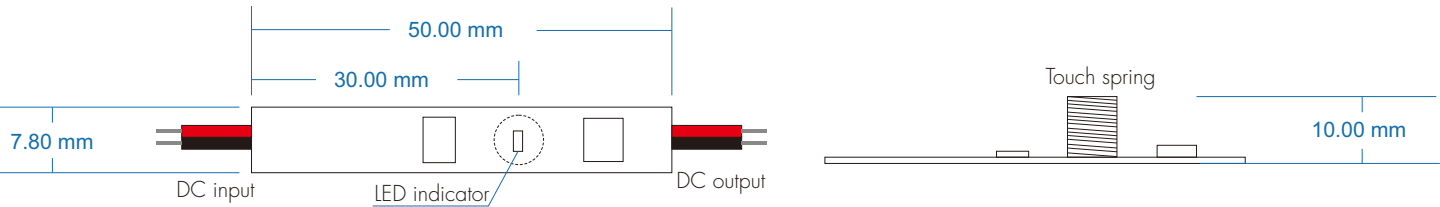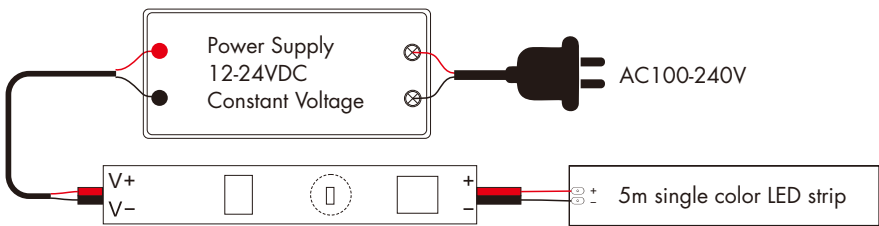- Widely used in table lamps, bedroom lamps, wardrobe lights, etc.

FC CE RoHS

Technical Parameters

Input and Output		Dimming data		Safety and EMC	
Input voltage	12-24VDC	Input signal	Touch key	EMC standard	EN IEC 55015/EN IEC 61547
Output voltage	12-24VDC	Dimming range	0-100%	Safety standard	EN 61347-1/-2 EN 62493
Output power	Max. 36W@12V Max. 72W@24V	PWM Frequency	125Hz(default)/500Hz /2000Hz/8000Hz		
Output type	Constant voltage			Certification	CE RoHS FCC
Warranty and Protection		Package		Environment	
Warranty	5 years	Size	L90 x H130(mm)	Operation temperature	Ta: -30°C ~ +55°C
Protection	Reverse Polarity	Gross weight	0.011kg		

Dimension

50.00 mm
30.00 mm
7.80 mm
DC input
LED indicator
DC output

Touch spring
10.00 mm

Wiring Diagram

Power Supply 12-24VDC Constant Voltage

AC100-240V

V+
V−

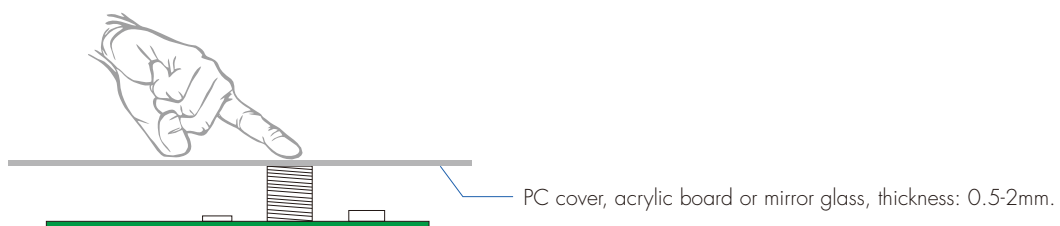5m single color LED strip

Installation attention:

- Put mini sensor dimmer into profiles when power is off.

- When install it in high humidity places (for example, bathroom or kitchen),
  please make sure your LED profiles is isolated against water, otherwise it will affect the sensitivity of touch sensor.

- Pay attention to power input and LED output polarity.

Touch Key Function

PC cover, acrylic board or mirror glass, thickness: 0.5-2mm.

Short press on the orange LED: Turn on or off light.

Long press on the orange LED: Adjust the brightness, long press again to change the brightness in the opposite direction.

PWM frequency setting: Within 10s after the touch dimmer is powered on.

Short press the orange LED 3 times quickly, the PWM frequency is set to 125Hz, the indicator flash 1 time;

Short press the orange LED 4 times quickly, the PWM frequency is set to 500Hz, the indicator flash 2 times;

Short press the orange LED 5 times quickly, the PWM frequency is set to 2000Hz, the indicator flash 3 times;

Short press the orange LED 6 times quickly, the PWM frequency is set to 8000Hz, the indicator flash 4 times.

Statement

FCC Statement:

This device complies wth 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.