

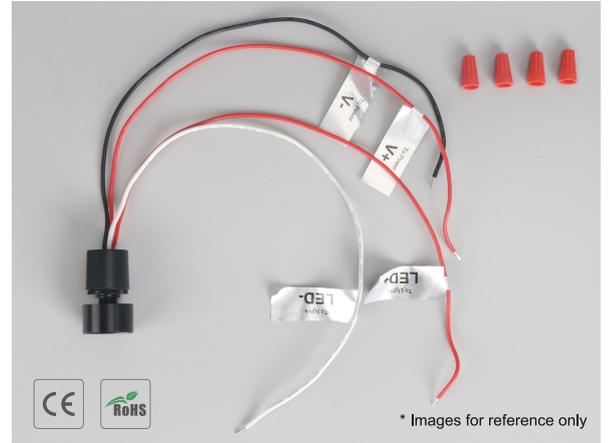
# Micro Button Switch BS002

## Overview:

- The product is a small LED dimmer that supports dimming and switching operations of LED products through rotation and pressing operations.
- It has misconnection protection and overcurrent short circuit protection functions.
- Widely used in automobiles, ships, indoor and outdoor lighting, etc.

## Specification:

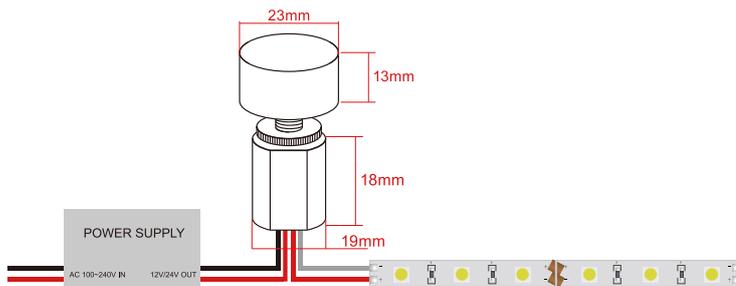
Input voltage VIN	12-24VDC
Output voltage VOUT	VIN-0.3
Load current	2A
Overcurrent protection point	2.5A
Dimming frequency	11.718KHz
Dimming and switching modes	Rotate and Press
Waterproof level	IP65
dimming levels	21 levels



## Function:

Serial number	Function point	Remarks
1	Switch	Press to control the load to turn on or off
2	Dimming	21 levels
3	Memory function	After 5 seconds of no operation, it will remember last setting
4	Over-current and Short-circuit Protection	When there is over-current, the LED beads will flash; when the output is short-circuited, the loadcircuit will be disconnected and the light will not light up.
5	Wrong wiring protection	If you connect the wrong wiring, the product will not be burned.

## Connection Diagram :



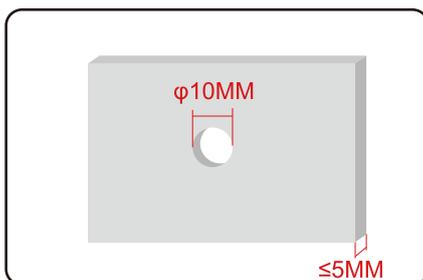
## Operations:

The Knob Controller functions as follow:

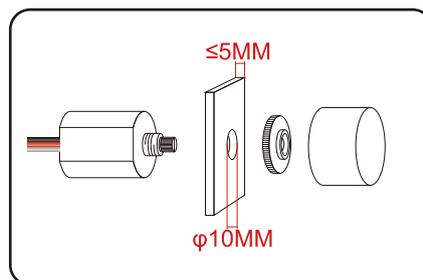
1. The initial state is off when turn on the power.
2. Press the knob to switch the light ON / OFF status.
3. The brightness of the led lamp can be adjusted by rotating the knob under the on state of opening (the clockwise brightness increases and the counterclock brightness decreases).
4. This sensor will memorize the status of the dimming in DC0V(power off) or DC12V-24V.

## Installation Steps:

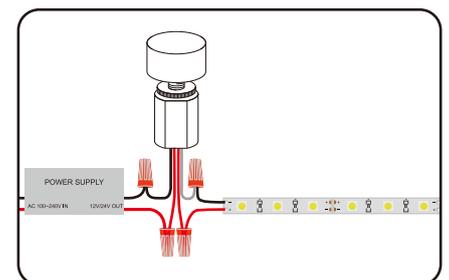
Installation Video: <https://youtu.be/iqy5PfxlNe4>



Drill a 10mm diameter hole in advance on the board that requires to install the controller, and the thickness of the board cannot exceed 5mm.



Disassemble the controller and pass through the board in the ways shown above, use a rotating nut to fix the controller, and then press the adjusting knob onto the controller metal rod.



After correct wiring, use an insulating cap to rotate and fasten it to prevent electric shock and to protect the human body.