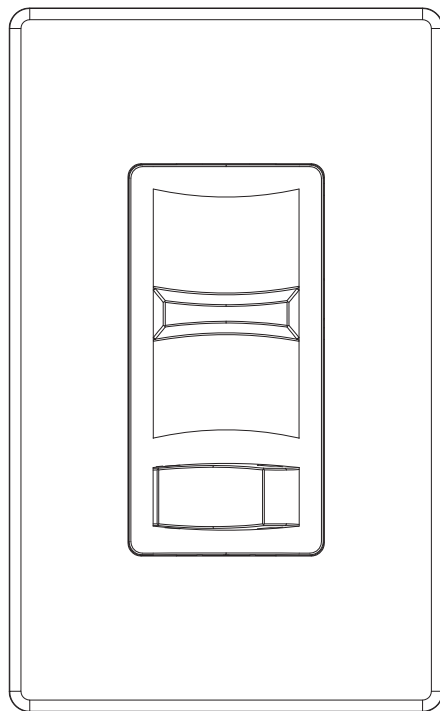


Installation Instructions for LED Dimmer Switch

Works with DIMMABLE LED, CFL,
Incandescent and halogen bulbs

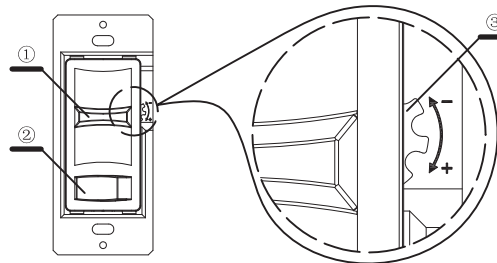
Part#: M520138



⚠ WARNINGS AND CAUTIONS

- Risk of fire and electrical shock, products should be installed in accordance with appropriate electrical codes and regulations.
- The product shall be used together with an upstream air-gap switch.
- Turn power off at circuit breaker or fuse and test that power is off before installing.
- After installed the dimmer, it is recommended to set the minimum brightness level to make bulbs turn on immediately and the dimmer with maximum dimming range.
- If you are unsure about any part of these instructions, consult an electrician.
- To reduce the risk of overheating and possible damage to other equipment, do not install to control a receptacle, a motor-operated appliance or a transformer-supplied appliance.
- Use with compatible dimmable LED, CFL bulbs, Incandescent or halogen bulbs only.
- When multiple bulbs are used with one dimmer DO NOT mix bulb types. All bulbs shall be either LED, CFL or incandescent. Using the same model of each bulb will enhance dimmer performance.

Functional parts instructions



① Slide Control Lever ② Rocker Switch ③ Adjustment Button

Slide Control Lever ①

- Move slide control lever ① up to increase brightness, move down to decrease brightness.

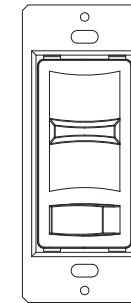
Rocker Switch ②

- Press the rocker switch ② of the dimmer, turn power on or off.

Adjustment Button ③

- Turn clockwise the adjustment button ③ to increase brightness, turn counter-clockwise to decrease brightness.
- Adjustment button ③ can adjust and set the minimum brightness level of the bulbs, make bulbs turn on and dimmer with maximum dimming range. Detail see step 7.

Parts information



dimmer(1pc)



Wire nut(4pcs)



mounting screw(2pcs)

Tools needed to install your Dimmer

Φ3mm Slotted Screwdriver	Φ5mm Philips Screwdriver	Electrical Tape	Cutters
Pliers	Test Pencil	Ruler	

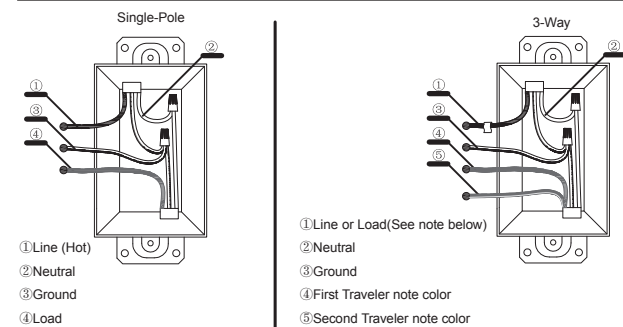
Installation and testing

Step 1 ⚠ **WARNING:** To avoid fire and electrical shock, TURN OFF POWER at circuit breaker or fuse and test that power is off before wiring.

Step 2 **Removing existing switch:** Remove existing wall plate and switch mounting screws. Carefully pull switch from wall box, identify and take out the wires attached to the switch, then remove the switch. DO NOT remove wires which are taken out from the switch at this time. (if new configuration is without this step)

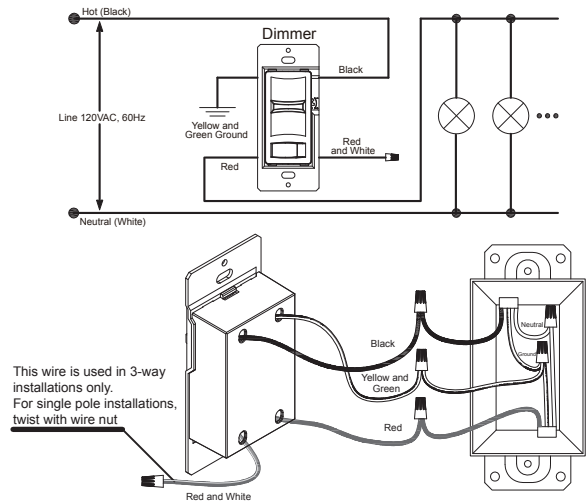
Step 3 **Identifying the type of circuit**

NOTE: If the wiring in the wall box does not resemble any of these configurations, consult an electrician.

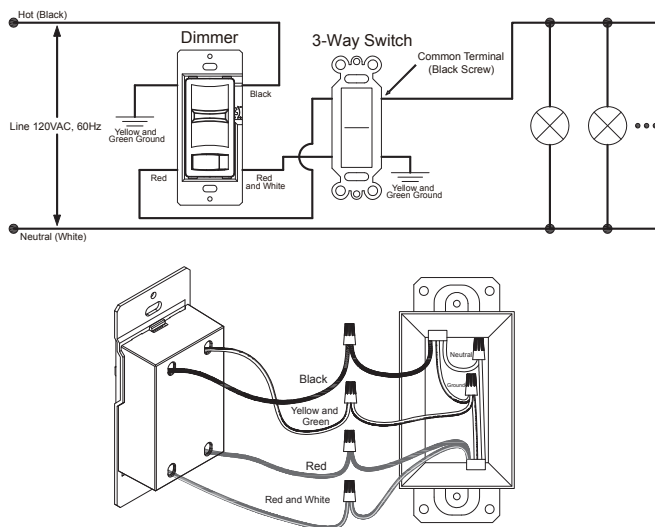


IMPORTANT: For 3-Way applications, note that one of the screw terminals from the old switch being removed will usually be a different color (Black) or labeled Common. Tag that wire with electrical tape and identify as the common (Line or Load) in both the dimmer wall box and 3-way wall box.

Model No.	Rated Voltage	Max.Load	Min.Load
		LED/Incandescent	LED/Incandescent
T-DNA020T-600	120V,60Hz	200W/600W	3W/15W

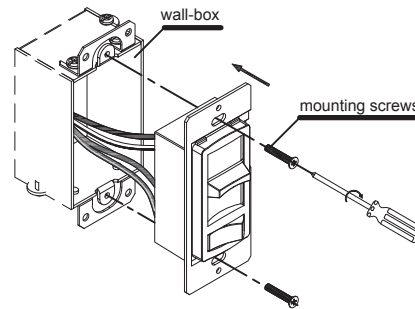
Step 4a Single-Pole Wiring Application:

- Connect the yellow and green dimmer wire to the green or bare copper ground wire in the wall-box, and twist them with wire nut.
- Connect the black dimmer wire to the hot input wire removed from the switch, and twist them with wire nut.
- Connect the red dimmer wire to the load wire removed from the switch, and twist them with wire nut.
- Use remaining wire nut to cap the remaining red and white wire on dimmer.

Step 4b 3-Way Wiring Application:

IMPORTANT: In a 3-way circuit, only one dimmer can be used

- Connect the yellow and green dimmer wire to the green or bare copper ground wire in the wall-box, and twist them with wire nut.
- Connect the black dimmer wire to the hot input wire with tag removed from the switch, and twist them with wire nut.
- Connect the red dimmer wire, red and white dimmer wire to the remaining 3-way switch's two wires removed from the switch, and twist them with wire nuts.

Step 5 Installing and fixing the dimmer

- Carefully position all wires inside the wall-box, leaving enough room to insert the dimmer housing. Put the dimmer inside the wall-box.
- Mount the dimmer securely inside the wall-box using the provided mounting screws.

Step 6 Turn power on

- Turn power on at circuit breaker or replace the fuse. Try out your new dimmer.
- If you're satisfied with dimming range and light output of your bulbs, proceed to step 8.

NOTE:

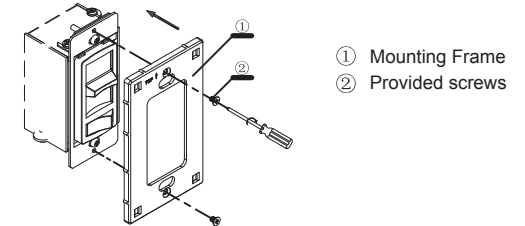
Dimmable LEDs may not dim as low as incandescent or halogen bulbs. Dimming range of dimmable LEDs can vary from manufacturer to manufacturer. If your bulbs do not dim to your satisfaction, especially the dimmer range and minimum brightness level, adjust the adjustment button of the dimmer after installed can get desired lighting result (The product is designed with an adjustment button). Detail see step 7.

Step 7 Testing

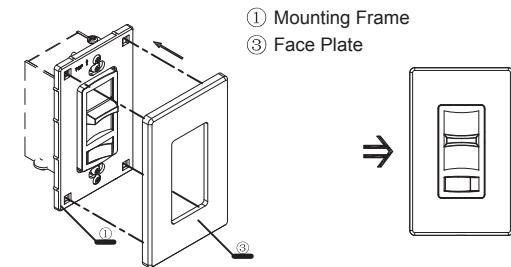
1. Move slide control lever ① to 30-50% position, push rocker switch ② on to make bulbs work. Move down slide control lever ① to lowest light level.
2. Turn counter-clockwise ("−") the adjustment button ③ to lowest desired brightness level where light output for all bulbs is stable and does not flicker or flash.
3. Push rocker switch ② off and back on rocker switch ② after 1s. Verify that all bulbs turn on and stable, do not flicker or flash.
4. If all or some bulbs do not turn on or do not satisfy to your minimum brightness level, turn clockwise ("+") the adjustment button ③ slightly to make all bulbs work and repeat step 2 and 3.
5. After the above setting then can make the bulbs startup with the minimum brightness level when turn on dimmer and the dimmer with maximum dimming range.

Step 8 Installing wall plate**Step 8a** Separated plate

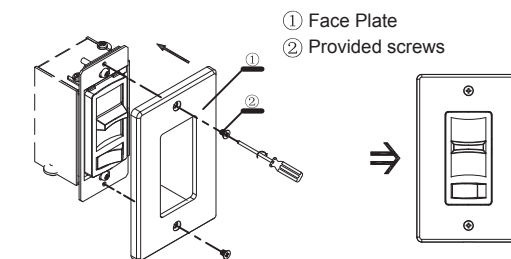
- Place the mounting frame ① over your installed dimmer and secure it using provided screws ②.



- Cover the face plate ③ over the installed mounting frame ① and gently push it to ensure flush fit.

**Step 8b** Integrated plate

- Place the face plate ① over your installed dimmer and secure it using provided screws ②.

**Troubleshooting**

Problem	Possible Cause	Solution
Lights flickering	Lamp has a bad connection	Reconnect and fix the wires
LED and CFL flickers at low end of dimming range	Adjust the adjustment button	Detail see 4.2.8
Light does not turn on	Circuit breaker has tripped	Turn power on
	Fuse burn out	Change fuse
	Lamp burned out	Change lamp
	Lamp neutral connection is not wired	Reconnect the lamp neutral