

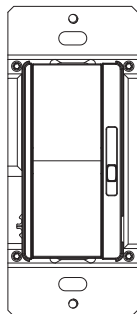


Innovation & Quality

0-10V Dimmer Installation Instructions

V0.04

Suitable for 0-10V dimmable power supplies or fixtures



Model No.	ANA030F1-1200		
Rated Voltage	120-277V~		
Rated Frequency	60Hz		
Maximum Wattage	1385VA		
Rated Wattage	Load type	120V~	277V~
	Electronic ballast or LED driver	10A	5A
Dimming Method	0-10V Dimming		
Working Environment	Temperature: 0°C -40°C		
	Humidity: 10% R.H.- 90% R.H.		
Size	4.13x1.73x1.28 in(LxWxH)		

⚠ WARNINGS AND CAUTIONS

- To avoid the risk of fire, shock, products should be installed in accordance with 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 a licensed electrician.
- To avoid the risk of overheating and possible damage to the equipment, do not install to control a receptacle, a motor-operated appliance or a transformer-operated appliance.
- This product can only be used with 0-10V dimmable power supplies or lighting fixtures.
- When the dimmer is connected to multiple 0-10V dimmable power supplies or lighting fixtures, do not mix different models of 0-10V

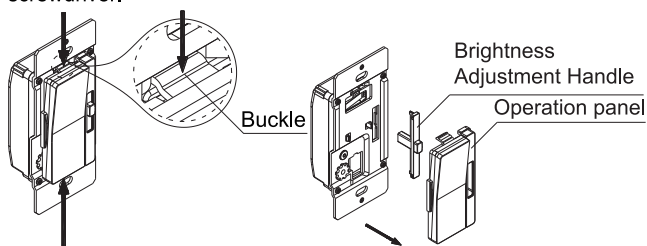
dimmable power supplies or lighting fixtures. Using the same model of 0-10V dimmable power supplies or lighting fixtures will improve the system's dimming performance.

CAUTION

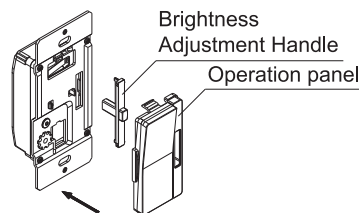
TO REDUCE THE RISK OF OVERHEATING AND POSSIBLE DAMAGE TO OTHER EQUIPMENT, DO NOT INSTALL TO CONTROL A RECEPTACLE, A MOTOR OPERATED APPLIANCE, OR A TRANSFORMER-SUPPLIED APPLIANCE

Operation Panel Replacement

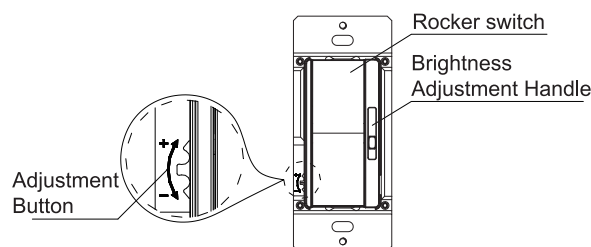
- Remove the operation panel and brightness adjustment handle by pushing out the buckle on the operation panel with a flat-head screwdriver.



- After the operation panel is removed, fasten the buckle above the new operation panel on the base, and then press down to place the new operation panel on the base (Note: When the operation panel is installed, the brightness adjustment handle needs to be stuck on the potentiometer).



Description of functional components



Brightness Adjustment Handle

- The brightness adjustment handle upward to increase the brightness and downward to decrease the brightness

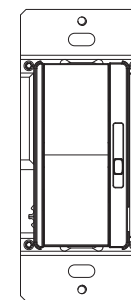
Rocker switch

- Press the dimmer's rocker switch to turn power on or off.

Adjustment Button

- Turn clockwise the adjustment button to increase brightness, turn counter-clockwise to decrease brightness.
- Adjustment button can adjust and set the minimum brightness level of the lamps to make lamps turn on immediately and dimmer with maximum dimming range. Detail see step7.

Accessory Information



Dimmer
(1pc)



P4 Wire nuts
(4pcs)



P2 wire
nuts (2pcs)



Mounting
screws
(2pcs)

Line/Load	Ligne/Charger	Line/Load	Ligne/Charger
Traveler 1	Voyageur 1	Traveler 1	Voyageur 1
Traveler 2	Voyageur 2	Traveler 2	Voyageur 2

Stickers (1pc)

Tools Required for Installation

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

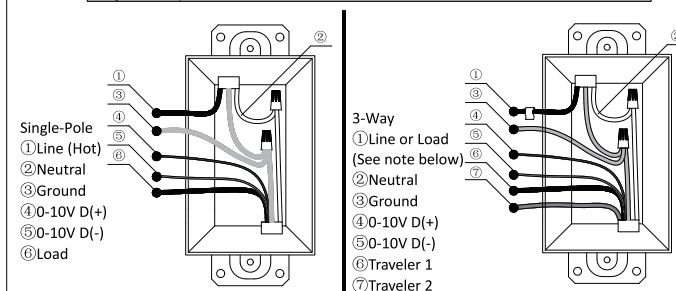
Installation and commissioning

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 Remove the existing switch : remove the screws installed on existing panel and switch. Carefully pull out the switch from the wall box, identify and remove the wires on the switch, and remove switch. Do not remove the wires removed from the switch at this time. (This step is not required for new configuration installation.)

Step 3 Identify wiring type

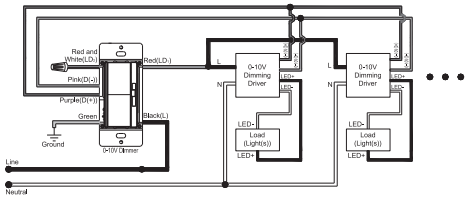
Note: If the wires in the wall box differs from these layouts, please consult an electrician.



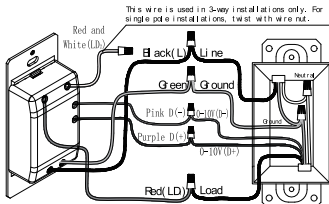
Important: For 3-way control application connections, note that one of the terminals removed from the old switch is usually a different color (black) or marked common. Mark it with electrical tape and identify it as common (live wire or load) in dimmer wall boxes and

3-way wall boxes.

Step 4a Single-Pole wiring application



Note: The red and white wires are only used for dual control application connections, in single control application connections, screw on the insulating cap for protection.

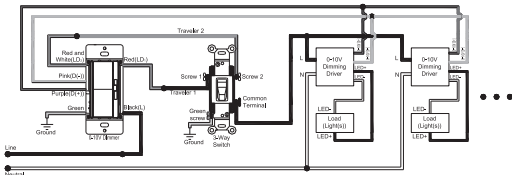


- Connect the green wire on the dimmer to the green or bare copper ground wire on the wall box and tighten it with the wire nut.
- Connect the black wire on the dimmer to the input wire removed from the switch which the line wire and tighten it with the wire nut.
- Connect the red wire on the dimmer to the load wire removed from the switch and tighten it with the wire nut.
- Connect the purple wire on the dimmer to the 0-10V D(+) on the wall box, and tighten it with the P2 wiring nut.
- Connect the pink wire on the dimmer to 0-10V D(-) on the wall box, and tighten it with the P2 wiring nut.
- Screw on the remaining red and white wire on the dimmer with the wire nut to protect them.

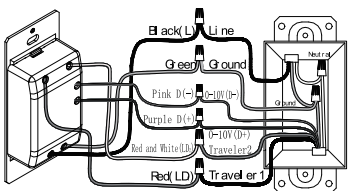
CAUTION

- Setup different wire pipeline between power line and the 0-10V control line.
- Dimmer can be damaged if the power line is connected to 0-10V control line.

Step 4b 3-Way wiring application



Important: Only one dimmer can be used in a 3-Way application connection.

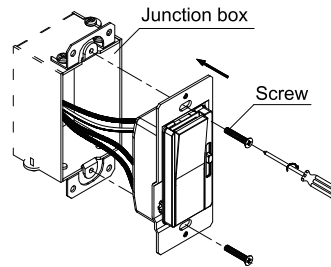


- Connect the green wire on the dimmer to the green or bare copper ground wire on the wall box and tighten it with the wire nut.
- Connect the black wire on the dimmer to the labeled input wire which is the line wire removed from the switch, and tighten it with the wire nut.
- Connect the red wire on the dimmer to the Traveler 1 wire and tighten it with the wiring nut.
- Connect the red and white wire on the dimmer with the Traveler 2 wire and tighten it with the wiring nut.
- Connect the purple wire on the dimmer to the 0-10V D(+) on the wall box, and tighten it with the P2 wiring nut.
- Connect the pink wire on the dimmer to 0-10V D(-) on the wall box, and tighten it with the P2 wiring nut.

CAUTION

- Setup different wire pipeline between power line and the 0-10V control line.
- Dimmer can be damaged if the power line is connected to 0-10V control line.

Step 5 Install and fix dimmer



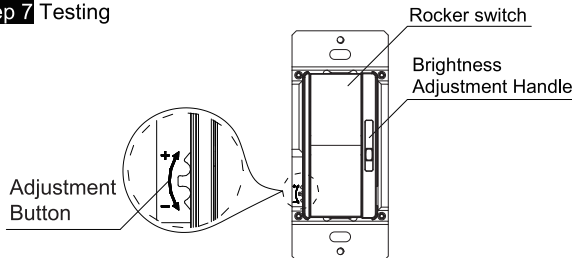
- Carefully position all wires inside the wall-box, leaving enough room to insert the dimmer housing. Put the dimmer inside the wall-box.
- Mount the dimmer securely inside the wall-box using the provided mounting screws.

Step 6 Turn on the power

- Turn on the power at the circuit breaker or fuse and test your dimmer.
- If you are satisfied with the dimmer's effective adjustment stroke and the brightness of the lamp, proceed to Step 8.

Note: The dimming range of LED lights produced by different manufacturers will be different. If you are not satisfied with the dimming effect of the lamp, especially the effective adjusting stroke of the dimmer and the minimum brightness of the lamp, please debug it after installation to get a more ideal effect (because this product is designed with a brightness trim knob). For details of commissioning, please refer to Step7.

Step 7 Testing



1. Move brightness adjustment handle to 30-50% position and press rocker switch to turn power on to make lamps work stably. Move down brightness adjustment handle to lowest light level.

Troubleshooting

Symptom	Possible Causes	Solution
Lamp flickering	Not connected properly for lamp wiring	Reconnect and secure the wires
Lamp flickers at low end of dimming range	Adjust the adjustment button	Turn up the minimum brightness value, see Step7 for details.
Long stroke at the low end of dimmer	Adjust the adjustment button	Turn up the minimum brightness value, see Step7 for details.
Lamp does not turn on	Circuit breaker has tripped	Reopen the power
	Fuse burn out	Change fuse
	Lamp burned out	Replace the lamp
	The neutral wire is not connected well	Reconnect the neutral wire