Installation Instructions for Smart **LED Dimmer Switch**

Works with DIMMABLE LED. CFL. Incandescent and halogen bulbs

Part#: M520140



Model No.	DNA052M2B-300
Rated Voltage	120V,60Hz
Rated Wattage	LED:300W INCAN.:15W-300W
Load Range	LED:3W-300W INCAN.:15W-300W
Dimming Mode	Phase cut
Compatible Loads	1.Dimmable LED lamp 2.Dimmable LED lamp with electronic transformer 3.Incandescent or medium voltage halogen lamp 4.Low voltage halogen lamp with electronic transformer
Working Temperature	-10 °C~40 °C
Operation Humidity	10% R.H90% R.H.

▲ 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 a licensed 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



Status indictor

Indicator lights red : The load light is OFF
Indicator lights yellow : The load light is ON

Short press: within 0.5s:

Long press: over 0.5s; Continuous short press: each interval of short press should within 1s.

On/off switch button

- Turn on the light : Short press the button once when the light is off.
- Turn off the light : Short press the button once when the light is on.
 Quick to the Max. brightness: Continuous short press the button twice.
- Set the Min. brightness : Turn on the light and dimming to the Min. brightness you desire, continuous short press the button 6 times then
- finished the Min. brightness setting.
 Recover to the factory default Min. brightness: Continuous short press the button 9 times when the light is on.
- Switching wire circuit connection way: Continuous short press the button 8 times, the load light flash twice, switching to Single-Pole/3-
- Recover to factory default:Continuous short press the button 10 times when the light is on, the load light flash once(1.Turn on the light will at Max. brightness;2.the min. brightness at 1%;3.Single-pole/3-Way
- Night light: Continuous short press the button 3 times, turn ON/OFF the night light. Finish the operation:Multi-function indicator flash once Turn off the night light,Multi-function indicator flash 3 times. Turn on the night light.

Brightness adjustment button

- Brightness increase: When the light is on, short press the up button to increase the brightness by one level:
- Brightness decrease: When the light is on, short press the down button once to decrease the brightness by one level:
- Brightness increases continuously: When the light is on, press and hold the up button to increase the brightness continuously until it is released or reaches the maximum brightness.
 Brightness decrease continuously: When the light is on, press and
- hold the up button to increase the brightness continuously until it is released reaches the minimum brightness.

Power switch

Plug in the power switch to turn on the power;
Pull out the power switch to turn off the power.

Multi-function indicator

Function 1: night light;Function 2: brightness indicator of load light.

	Table of the brightness indication			
S/N	brightness level	online operation brightness interval	LED indicator	
1	brightness level 1	two gears, the current brightness	LED2 brighting	
2	brightness level 4		LED2~LED3 brighting	
3	brightness level 7		LED2~LED4 brighting	
4	brightness level 10		LED2~LED5 brighting	
5	brightness level 13		LED2~LED6 brighting	
6	brightness level 16		LED2~LED7 brighting	
7	brightness level 19		LED2~LED8 brighting	

Parts information



Tools needed to install your Dimmer

Φ5mm Philips Screwdriver	Electrical Tape	Cutters
Pliers	Test Pencil	Ruler

Installation and testing

- Step 1 MARNING: 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)



NOTE: If the wiring in the wall box does not resemble any of these



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 dimme wall box and 3-way wall box.







 Connect the vellow and green dimmer wire to the green or bare copper ground wire in the wall-box, and twist them with wire connector. •Connect the black dimmer wire to the hot input wire removed from the

switch, and twist them with wire connector •Connect the white dimmer wire to the neutral wire,and twist them with

•Connect the red dimmer wire to the load wire removed from the switch, and twist them with wire connecto

•Use remaining wire connector to cap the remaining grey wire of the 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 white dimmer wire to the neutral wire and twist them with
- wire connector
- Connect the red dimmer wire, gray dimmer wire to the remaining 3-way switch's two wires removed from the switch, and twist them with wire nuts. (Note: The red wire on the dimmer is connected to the load wire on the 3-way Switch.)

Step 4c Multi-Way Wiring Application:

[Switching wire circuit connection way: Continuous short press the button

Step 4c-1 Multiple self-reset switches control one dimmer wiring diagram





Step 4c-2 One self-reset switch control Multiple dimmer wiring diagram





NOTE:

NOTE



Multi-way self-reset switch can control up to 20pcs of dimmer for UP/DOWN dim and ON/OFF at the same time



- Connect the yellow and green dimmer wire to the green or bare
- Connect the black dimmer wire to the hot input wire with tag removed
- from the switch, and twist them with wire nut
- wire connector.
- Connect the red dimmer wire, gray dimmer wire to the remaining
 3-way switch's two wires removed from the switch, and twist them
- with wire nuts. (Note: The red wire on the dimmer is connected to the load wire on the 3-way Switch.)

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

wire connector



Step 4c-3 Multiple self-reset switches control multi-way dimmers wiring



copper ground wire in the wall-box, and twist them with wire nut.

• Connect the white dimmer wire to the neutral wire, and twist them with



Step 6 Installing wall plate

 Place the mounting frame over your installed dimmer and secure it using provided scre



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



Step 6b Integrated plate

Place the plate over your installed dimmer and secure it using provided screws.



Using Description

Function Description

Table of the function in Single-pole wiring

iring method	Function	Dimmer operation
Single-pole	Turn on/off the light	V
	Dimming	~
	Quick to the Max. brightness	V
	Set the Min. brightness	√
	Reset the default brightness	V
	Switching wiring method	√
	Reset to the factory default	V
	Hober to the factory default	

Table of the function in 3-Way wiring

Wiring method	Function	Dimmer operation	On/off switch operation
	Turn on/off the light	1	V
	Dimming	1	×
3-Wav	Quick to the Max. brightness	1	×
3-vvay	Set the Min. brightness	1	×
	Reset the default brightness	1	×
	Switching wiring method	√	×
	Reset to the factory default	1	×
	Group control	×	V

Opreation of On/off switch

• Turn on the light: Press to turn on the light when it is off; • Turn off the light: Press to turn off the light when it is on

Table of the function in Multi Way

Table of the function in Multi-Way withing			
Wiring method	Function	Dimmer operation	Self-reset switch operation
Multi -Way	Turn on/off the light	1	1
	Dimming	1	×
	Quick to the Max. brightness	1	×
	Set the Min. brightness	\checkmark	×
	Reset the default brightness	1	×
	Switching wiring method	1	×
	Reset to the factory default	\checkmark	×
	Group control	×	\checkmark

Opreation of self-reset switch

- Turn on the light: Press once to turn on the light when it is off:
- Turn off the light: Press once to turn off the light when it is on;
- Dimming: Press and hold to adjust the brightness of the light, press and hold again to change the direction of the brightness after released.
 Quick to the maxinum brightness: Press the switch twice to dimming
- the light to the maximum brightness.

Troubleshooting

Problem	Possible Cause	Solution
	Lamp has a bad connection	Reconnect and fix the wires
Lights flickering	One dimmer connect to multiple types bulb, incur interference and cause flicker	Change bulbs to same type
		Turn up lamp minimum brightness properly
	Circuit breaker has tripped	Turn power on
	Fuse burn out	Change fuse
	Lamp burned out	Change lamp
Light does not turn on	Lamp neutral connection is not wired	Reconnect the lamp neutral
	The wiring of the other switch is incorrect when using in a 3-way circuit	Reconnect the circuit



