



**STARFISH™**  
live life enLightened

## In-Wall Wi-Fi Dimmer S11268 Installation Guide

**WIFI**  
2.4GHz  
NO HUB NEEDED



A19 Lamps



Strip Lights



Recessed  
Fixtures



Smart Lighting  
Controls



Flound and  
PAR Lamps



String Lights

**STARFISH™**  
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Technical Support [www.satco.com/Starfish](http://www.satco.com/Starfish)

This dimmer is rated for use with incandescent and dimmable LED bulbs and fixtures

120VAC 60Hz  
450W INC, 150W LED

**NOTE: A NEUTRAL WIRE IS REQUIRED FOR INSTALLATION**

Derating is required when installing in multi-gang applications:

	1 Gang	2 Gang
Maximum Ratings		
Dimmable LED	150W	150W
Incandescent	450W	350W

	3 Gang
Maximum Ratings	
Dimmable LED	150W
Incandescent	300W

### WARNING:

This product may represent a possible shock or fire hazard if improperly installed or attached in any way. Product should be installed in accordance with the owner's manual, current electrical codes and/or the current National Electric Code (NEC).

### CAUTION: RISK OF ELECTRIC SHOCK.

- TURN OFF THE MAIN POWER AT THE CIRCUIT BREAKER BEFORE INSTALLING.

### CAUTION: RISK OF FIRE.

- FOR CONTROL OF INCANDESCENT OR LED LUMINAIRES ONLY.
- DO NOT USE WITH CONTROL RECEPTACLE OUTLETS, FLUORESCENT LIGHTING FIXTURES, MOTOR-OPERATED APPLIANCES OR TRANSFORMER SUPPLIED APPLIANCES.
- DO NOT EXCEED ELECTRICAL RATINGS.
- USE INDOORS ONLY.

- INSTALL IN A METALLIC OUTLET BOX HAVING MIN. WIDTH 50MM, OR A NON-METALLIC BOX.

- ONLY USE WITH SOLID COPPER WIRE OR COPPER-CLAD WIRE.

### CAUTION:

- INSTALLATION REQUIRES A NEUTRAL WIRE.
- THIS DEVICE DOES NOT WORK WITH SMART LAMPS.
- This dimmer is designed to work with incandescent and dimmable LED lamps.
- Dimming range will vary depending on lamp type.
- Dimmable LEDs may not dim as low as incandescent bulbs. Dimming range of dimmable LEDs can vary from manufacture to manufacture. This dimmer has an adjustable dimming range. If your lamp does not dim to your satisfaction, hum, buzz, or flicker see "Troubleshooting Tips".

### REPLACING LIGHT BULBS.

- Make sure dimmer switches are in OFF position (no light level indicator lights are lit)

- To ensure there is no power at the socket when replacing light bulbs, turn off power at circuit breaker or fuse.

Air gap switch can be used to disable the dimmer in single pole applications. This is not intended to replace turning off power at circuit breaker or fuse.

### FCC/IC INFORMATION

This device complies with part 15 of the FCC Rules and Industry Canada license-exempt RSS standard(s). Operation is subject to the following two conditions: (1) This device may not cause interference, and (2) this device must accept any interference, including interference that may cause undesired operation.

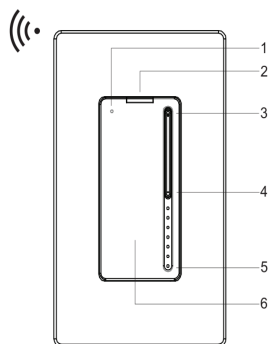
Note: This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against

harmful interference in a residential installation. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications.

However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

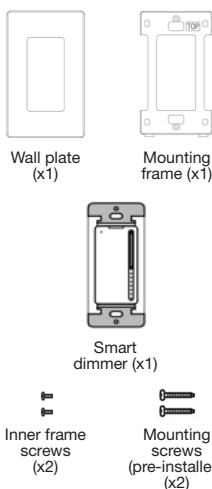
- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

### OPERATION

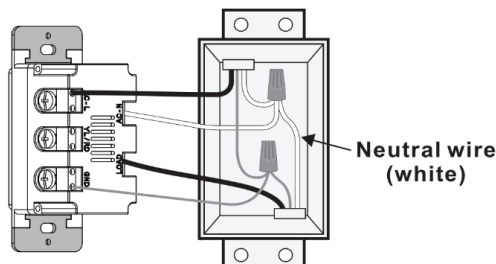


- 1) Power Indicator & Configuration Light
- 2) Air Gap Switch (Cuts power to light)
- 3) Dim/Bright Bar – Raise Lights
- 4) Dim/Bright Bar – Lower Lights
- 5) Light Level Indicator Bar
- 6) On/Off Switch

### PARTS INCLUDED



### Verify that a neutral wire is available prior to installation

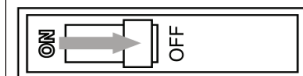


### How do I know if I have a neutral wire?

1. Turn power off at your breaker box and ensure the power is off
  2. Remove the wall plate and existing device from the wall box
  3. Remove and straighten all wires from the device
  4. If you see a white wire (or bundle of them), it is likely that you have a neutral in that switch box
  5. If you do not have a neutral wire, this dimmer WILL NOT work
- If this looks different from your wallbox, please consult a certified electrician

### DIMMER INSTALLATION

Turn power OFF at the circuit breaker and ensure power is off.



### WARNING: SHOCK HAZARD.

May result in serious injury or death. Turn off power at circuit breaker or fuse and test that power is off before wiring.

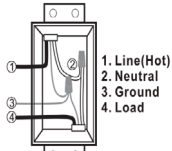
CONTINUED ON OTHER SIDE

### Identify if your wiring is SINGLE POLE or 3-WAY

**SINGLE POLE:**  
control from a single location

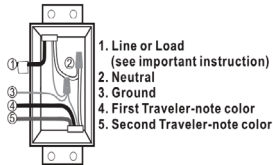
**3-WAY:**  
control from 2 locations

#### SINGLE POLE



1. Line(Hot)
2. Neutral
3. Ground
4. Load

#### 3-WAY



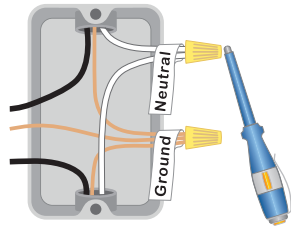
1. Line or Load (see important instruction)
2. Neutral
3. Ground
4. First Traveler-note color
5. Second Traveler-note color

You will need to determine which is the "LINE" wire and wall box and which is the "LOAD" wire and wall box.

Your old switch may have a screw terminal of a different color (usually black). This will either be the "LINE" connection or the "LOAD" connection. Tag this wire with a piece of electrical tape.

Disconnect all wires from the old switch and ensure no wires are touching. Turn the power back on at the circuit breaker. Use a handheld voltage tester to determine if the tagged wire is "live".

If the tagged wire is "live", this is the "LINE" wire and wall box. If not, this is the "LOAD" wire (and wall box in 3-way applications).



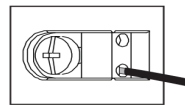
**NOTE:** Ensure power is off before performing this step!

#### Preparing and connecting wires:

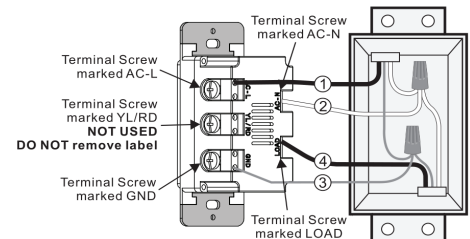
Use with #12-14 AWG solid copper or copper-clad wire. Strip wires to 2 cm (.8 inch).



Insert wires into terminal holes and secure connections by tightening terminal screws to 16 lbf-in (1.8 N.M) as shown.



### SINGLE POLE WIRING



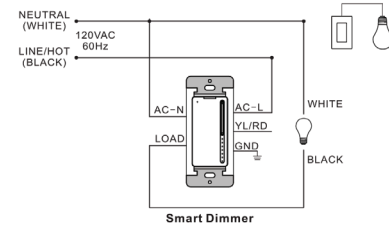
**Ensure that the following connections are made:**

"LINE" wire to the terminal marked AC-L

"LOAD" wire to the terminal marked LOAD

Neutral wire to the terminal marked AC-N

Ground wire to the terminal marked GND



Note: A single pole or 3-way switch can be used alongside the smart dimmer.

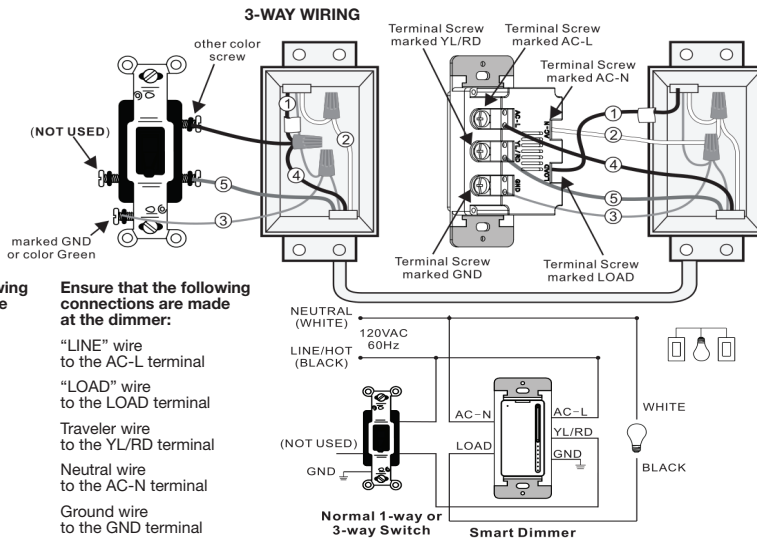
**IMPORTANT:** The switch must be installed in the "LINE" wall box and the smart dimmer must be installed in the "LOAD" wall box.

**Ensure that the following connections are made at the switch:**

"LINE" wire to one terminal  
Traveler wire to the other terminal  
Ground wire to the GND terminal

**Ensure that the following connections are made at the dimmer:**

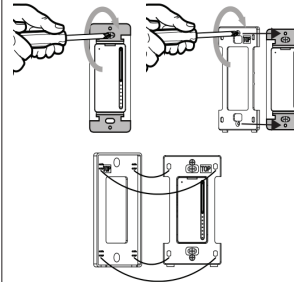
"LINE" wire to the AC-L terminal  
"LOAD" wire to the LOAD terminal  
Traveler wire to the YL/RD terminal  
Neutral wire to the AC-N terminal  
Ground wire to the GND terminal



### MOUNTING

Push wires into the wall box and push dimmer into opening

Mount the dimmer into wall box and install the wall plate



### TESTING

Turn power back on at the circuit breaker

Test the device to ensure that the lights will turn on and off



**DOWNLOAD THE FREE "STARFISH SMART LIGHTING" APP**

Please refer to our Starfish user guide for detailed instructions on how to pair your device

### TROUBLESHOOTING

**Lights are flickering:**

- Lamp has a bad connection.
- The dimmer wire connections are not firmly secured.
- If using in a dimmable LED or CFL application you can use the APP in the setting to adjust the minimum brightness until you do not see flicking.

**Light does not turn ON:**

- Circuit breaker or fuse has tripped.
- Bulb or lamp is burned out.

**Power indicator light does not turn ON:**

- Neutral is not connected to dimmer (white wire)
- Confirm that dimmer is being supplied from a 120V AC, 60Hz source ONLY.

**Intermittent dimmer operation:**

- Confirm that the LOAD being controlled does not exceed 450W incandescent or 150W LED.