



# Armacost 511122 Touchless Motion Sensor Dimmer Switch User Manual

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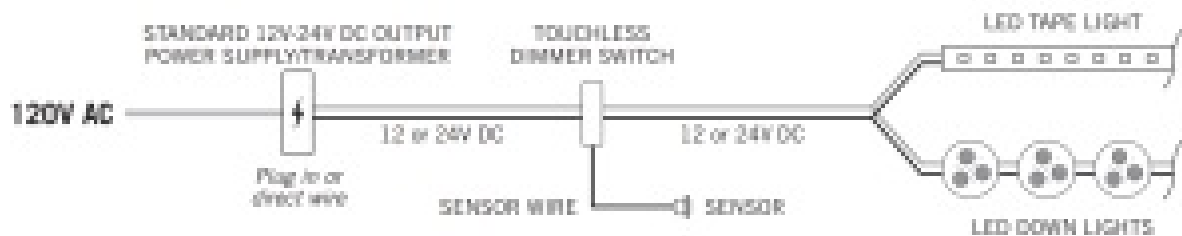


- Provides full range brightness control of low voltage white LED lighting.
- 5 ft. sensor wire lead permits greater flexibility of installation.
- Works with both 12V DC and 24V DC LED lighting.
- Dimming will save energy and extend LED life.

## IMPORTANT

- For use only with 12V DC or 24V DC low voltage single color LED lighting.  
Do not connect this device to a 120V AC current. For dry location use.
- The dimming features of this device will work only if your LED lighting is capable of PWM dimming. If unsure, ask the manufacturer of your lighting.
- Use only with 12V or 24V DC constant voltage standard electronic power supplies. Not compatible with magnetic power supplies or low voltage power supplies with 12V AC output.
- Suitable for RV and boat interior applications (dry location), this device can be direct-wired and powered by an onboard 12V or 24V battery.
- All wiring must be in accordance with national and local electrical codes, low voltage Class 2 circuit. If you are unclear as to how to install and wire this product, contact a qualified electrician.
- The shorter the wire leads between the power supply, this dimmer switch, and your LED lighting, the brighter and more consistent your lighting will be —**do not coil excess wire.**
- Be sure to maintain polarity (+ to +, – to –). Failure to observe polarity or shorting of wires may damage the dimmer.

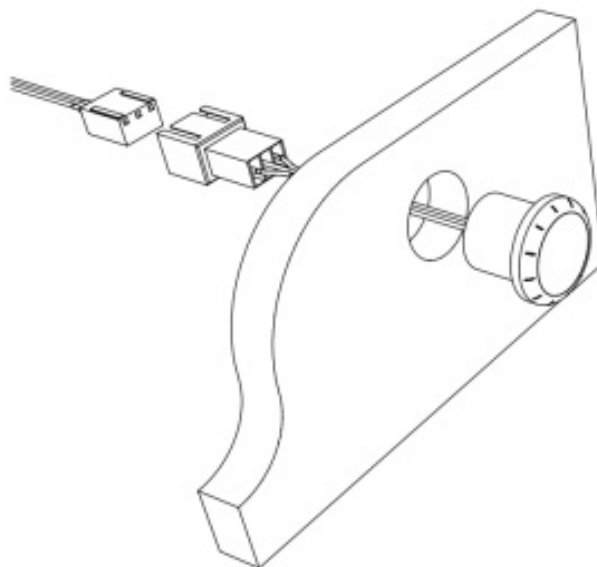
- Use only insulated staples or plastic ties to secure cords and wires.
- Route and secure wires so they will not be pinched or damaged.
- For wire runs inside of walls, use certified CL2 or better cabling and appropriate mounting hardware.
- Do not install Class 2 low voltage wiring in the same runs as AC main power.  
If AC and low voltage wires cross, keep them at 90-degree angles
- Do not exceed 48 watts of lighting when used with 12V LEDs or 96 watts when used with 24V LEDs.



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## Direct Wire Hookup



*Hole diameter – 1/2 in.*

1. Make sure power is disconnected while installing the remote touchless sensor.
2. Drill a 1/2 in. diameter hole into your sensor mounting surface. Use the quick connector to detach the sensor from the unit, and run the wiring through the hole.
3. Reconnect your sensor wire and press the top of the sensor firmly to insert into the hole.
4. Connect your DC input wires to the wires labeled DC IN (+,-). Connect your output wires from your LEDs to the wires labeled TO LED (+,-).

Double-check polarity before applying power to the unit.

## Operation

This device functions as an on/off switch with full range dimming capabilities and is intended only for use with white or single color LED lighting. Do not use RGB multi-color lighting.

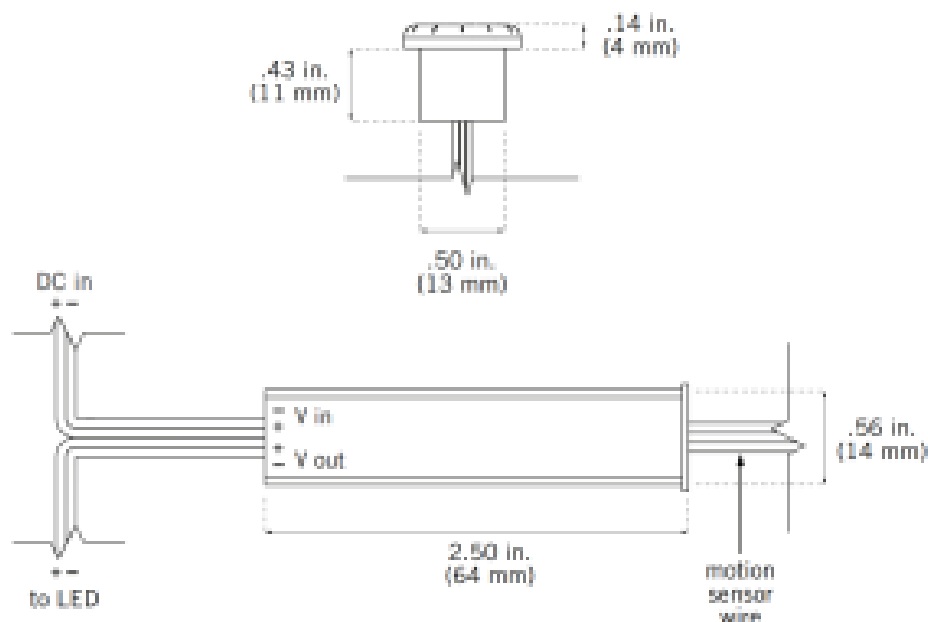
- The IR sensor will detect any object within its range to trigger the operation of the lights. The effective detection range is within 6 inches of the sensor and can vary slightly depending on environmental variables.
- To operate, simply wave your hand or an object in and then out of the sensor range. This action will either turn your LED lighting on or off.

To prevent inadvertent operation, there is a minimum detection time (about a half-second) for the sensor to register an action. Rapidly waving a hand or object past the sensor may not trigger the on/off function of the unit.

- Continue to hold your hand in front of the sensor for more than 2 seconds for brightness control. The unit will continuously ramp between full brightness and low brightness until your hand is removed from the detection area. The lights will hold the current brightness level when your hand is removed and can be powered on and off while retaining this setting.

## SPECIFICATIONS

Input voltage.	12V-24V DC
Output current.	4A
Max load with 12V lighting.	48 watts
Max load with 24V lighting.	96 watts
Working temp.	-4 to 95°F (-20 to 35°C)
Country of origin.	China



Limited 2-year warranty. Improper installation, improper powering, abuse, or failure to use this device for its intended purpose will void the warranty. Proof of purchase is required for all returns. Questions?  
Email [support@armacostlighting.com](mailto:support@armacostlighting.com).

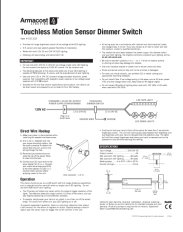


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**RoHS**



## Documents / Resources

	<p><a href="#">Armacost 511122 Touchless Motion Sensor Dimmer Switch</a> [pdf] User Manual 511122, Touchless Motion Sensor Dimmer Switch</p>
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