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WAC Lighting CT-6A-R2

WAC Lighting CT-6A-R2 Contemporary Touch On/Off Control and Occupancy Sensor User Manual

Model: **CT-6A-R2** | Brand: **WAC Lighting**

INTRODUCTION

This manual provides detailed instructions for the installation, operation, and maintenance of the WAC Lighting CT-6A-R2 Contemporary Touch On/Off Control and Occupancy Sensor. This intelligent controller is designed for use with WAC Lighting low voltage LED luminaires, offering both touch and motion-activated control. Please read these instructions carefully before installation and use to ensure proper function and safety.

PRODUCT COMPONENTS

The WAC Lighting CT-6A-R2 system includes the following main components:

- Controller (AC/DC Input at 12V or 24V)
- Touch Panel (with 8ft wire)
- Occupancy Sensor (with 18ft wire)

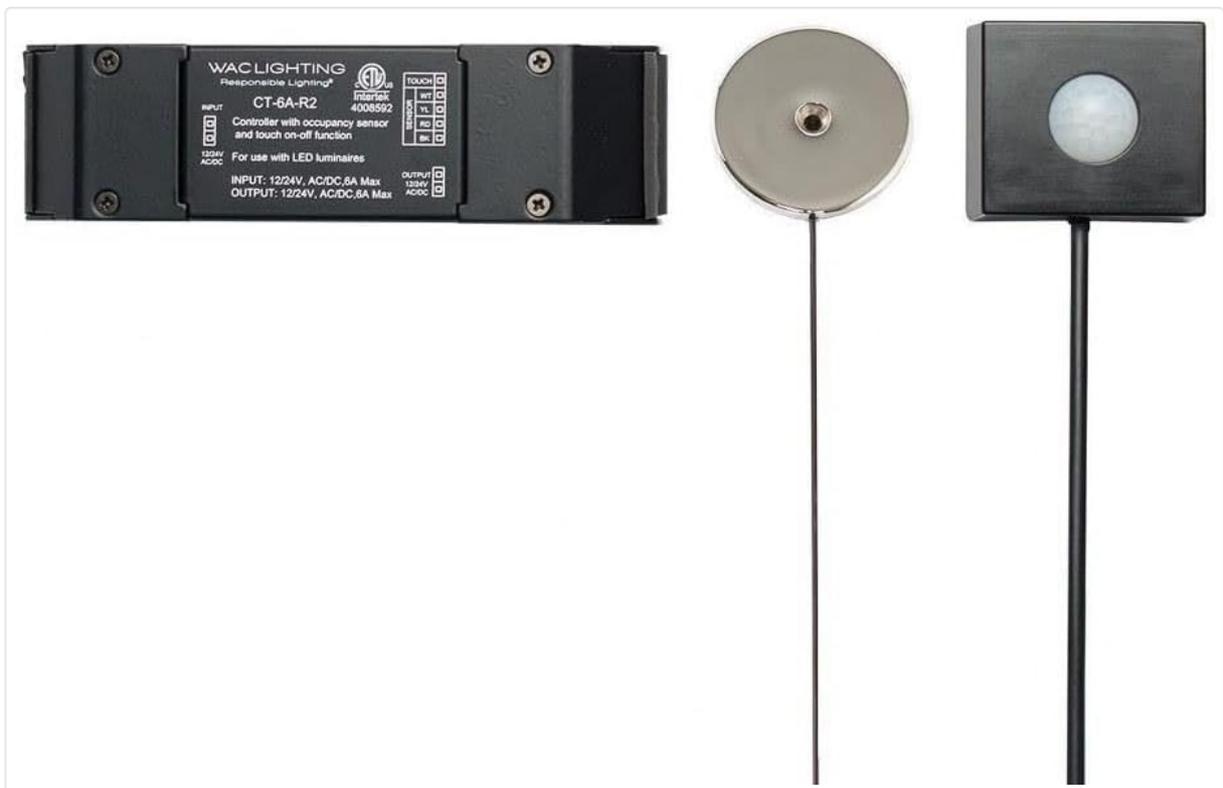


Image: The WAC Lighting CT-6A-R2 system showing the main controller unit, the circular touch panel, and the rectangular occupancy sensor, all connected by wires.

KEY FEATURES

- Intelligent motion and touch switch control for luminaires.
- Compatible with WAC Lighting 12V or 24V electronic low voltage LED systems.
- Three programmable functions: Touch and Sensor, Touch Only, Sensor Only.
- Adjustable timer for automatic shut-off (10 seconds to 20 minutes).
- Flexible mounting options: screw or double-sided tape.
- Designed for indoor under-cabinet applications.

SETUP AND INSTALLATION

1. Wiring Considerations

- The motion sensor is supplied with an 18ft wire.
- The touch panel is supplied with an 8ft wire.
- Wires may be cut to desired lengths.
- *Lengthening of wires is not recommended as it may decrease sensitivity.*

2. Mounting Options

Two mounting options are provided for the touch panel and occupancy sensor:

- **Screw Mounting:** For secure attachment to various surfaces.
- **Double-Sided Tape Mounting:** Suitable for rough, smooth, and curved surfaces.

Choose the appropriate mounting method based on your installation surface and requirements.

3. Power Connection

Connect the controller to a 12V (60W Max) or 24V (96W Max) AC/DC input. Ensure compatibility with your WAC Lighting low voltage LED system. Always ensure power is disconnected before making any electrical connections.

OPERATING INSTRUCTIONS

1. Function Programming

The controller can be programmed with three distinct functions:

1. **Touch and Sensor:** Both the motion sensor and the touch switch are active.
2. **Touch Only:** Only the touch switch is active; the motion sensor is inactive.
3. **Sensor Only:** Only the motion sensor is active; the touch switch is inactive.

Refer to the controller's wiring diagram or specific instructions on the unit for programming these functions. Typically, this involves specific wiring configurations or dip switch settings on the controller.

2. Motion Sensor Timer Adjustment

The built-in adjustable timer on the motion sensor allows for automatic shut-off after the sensed area is vacated.

- **Maximum Time Delay:** 20 minutes (20Min)
- **Minimum Time Delay:** 10 seconds (10S)

Adjust the timer setting on the motion sensor unit to your preferred duration. This is usually done via a small dial or switch on the sensor itself.

MAINTENANCE

To ensure optimal performance and longevity of your WAC Lighting CT-6A-R2 controller:

- Keep the touch panel and occupancy sensor clean and free from dust and debris. Use a soft, dry cloth for cleaning.
- Avoid using abrasive cleaners or solvents, as these can damage the surfaces.
- Ensure that the motion sensor's field of view is not obstructed by furniture or other objects.
- Regularly check wire connections for security, especially if the unit is in an area subject to movement or vibration.

TROUBLESHOOTING

Problem	Possible Cause	Solution
Lights do not turn on/off with touch.	Touch function is disabled, or wiring issue.	Check programming to ensure "Touch" or "Touch and Sensor" mode is active. Verify touch panel wiring connections.
Lights do not respond to motion.	Motion sensor function is disabled, obstructed, or wiring issue.	Check programming to ensure "Sensor" or "Touch and Sensor" mode is active. Ensure sensor is not obstructed. Verify motion sensor wiring connections.

Problem	Possible Cause	Solution
Lights turn on unexpectedly or stay on too long.	Motion sensor sensitivity, timer setting, or environmental interference.	Adjust motion sensor timer to a shorter duration. Check for environmental factors (e.g., drafts, heat sources) causing false triggers. Ensure proper function programming.
Reduced sensor sensitivity.	Lengthened sensor wires.	Ensure sensor wires are not excessively lengthened beyond the factory-supplied length. If possible, shorten wires to recommended lengths.
No power to luminaires.	Incorrect power input, faulty connection, or incompatible luminaire.	Verify power input (12V or 24V) and all wiring connections. Ensure luminaires are compatible WAC Lighting low voltage LED products.

SPECIFICATIONS

- **Model Number:** CT-6A-R2
- **Input Voltage:** 12V AC/DC (60W Max) or 24V AC/DC (96W Max)
- **Output:** 12V AC/DC, 5A Max or 24V AC/DC, 4A Max
- **Motion Sensor Wire Length:** 18 ft (may be cut)
- **Touch Panel Wire Length:** 8 ft (may be cut)
- **Motion Sensor Timer:** Adjustable from 10 seconds (10S) to 20 minutes (20Min)
- **Mounting Options:** Screw or Double-Sided Tape
- **Material:** Aluminum
- **Color:** Black
- **Product Dimensions (Controller):** 1.25 x 5.5 x 1.25 inches
- **Item Weight:** 6.9 ounces
- **Standards:** Class 2, UL & cUL Listed for damp locations
- **Usage:** Indoor under-cabinet application

WARRANTY AND SUPPORT

This WAC Lighting product comes with a **5-Year Warranty** on the product and a **2-Year Warranty** on the finish.

For technical support, troubleshooting assistance, or warranty claims, please contact WAC Lighting customer service. Refer to the official WAC Lighting website for current contact information and support resources.

Please retain your proof of purchase for warranty purposes.

SAFETY INFORMATION

WARNING: This product may contain chemicals known to the State of California to cause cancer, birth defects, or other reproductive harm. Please check your local laws before purchasing and installing this

product.

Always ensure power is disconnected at the circuit breaker before installation, maintenance, or any service. Installation should be performed by a qualified electrician in accordance with all applicable local and national electrical codes.