



## Runway Light Controller Guide

[www.bestwindsocks.com](http://www.bestwindsocks.com)

**NOTE:** The runway light controller is not intended to be used where property damage, injury, or death may result from failure of the controller to operate properly. The controller contains electrical and mechanical components, which, as in any device, may fail. Under no circumstances will Windtek Inc., TechSource Engineering, Inc., their owners, or employees be liable for any damage or injury resulting from use of the controller.

**WARRANTY:** The runway light controller is warranted to be free from defects in materials and workmanship for a period of 6 months. During the warranty period we will, at our option, repair or replace any defective unit. This warranty does not apply to controllers which have been used in a manner not consistent with the intended purpose, modified or damage through abuse or neglect, or any which have been damaged by lightning, or other power anomalies.

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## **Purpose**

The runway light controller is intended to offer a convenient way for a pilot to turn on runway lights through the use of an aircraft-band radio transmitter.

## **Function**

The controller is factory-set to continuously monitor a pre-set aircraft-band frequency. The frequency setting may be set from 108.00 to 140.00. Upon receipt of a microphone key sequence of 5 pulses of approximately 0.5 second on each, within 10 seconds, the controller will activate an output relay to turn on the runway lights for a period of 15 minutes. At the end of the on-time, the controller will blink the lights for 15 seconds as a warning before turning off the lights. The controller may be re-triggered at any time during the sequence which will reset the unit for another 15 minute cycle. The lights will flash to indicate that a new 15 minute cycle has been set.

5 pulses are needed to retrigger the controller by a radio. To retrigger manually tap the yellow button within a 1 second interval and the lights will blink to confirm the cycle has been reset. Press and hold the yellow button and the lights will turn off.

## **Installation**

See page 6 for details of typical runway light wiring hookup. Wiring should be done by a licensed electrician, in compliance with all applicable local and national codes. A disconnect switch must be supplied by the customer.

The controller output relay is rated for 110 volts or 240 volts at 10A or 8A maximum at up to 24VDC. If your lighting system draws more than 75% of these current values the use of an external power contactor is required.

The controller power supply is permanently attached to the controller.

After all connections have been made to the controller, If there is no radio activity on the preset frequency, only the green light will illuminate. Press the yellow button momentarily to initiate a timed cycle to turn on the runway light output relay. If the output connector wiring was done properly the runway lights should illuminate. Press the yellow button for 3 seconds to abort the timed cycle and turn off the output relay.

Test the controller by doing a walk-around with a hand-held and/or a flyover to determine usable range and to get familiar with the keying sequence. The controller yellow signal indicator will illuminate when a signal is present on the preset radio frequency .

If the yellow indicator flashes or remains on continuously when the radio is not being keyed, there may be radio noise present in the area. Try to relocate the controller and/or the antenna to minimize noise pickup. The antenna pulls off and there is a collapsible antenna inside the antenna sleeve. You may try to collapse the inside antenna if your unit is picking up too much interference. Many electronic devices, especially computers and portable phones, emit noise in the aircraft band. Keep the controller as far from these devices as possible.

Please note this unit is water resistant, not water-tight.

This unit should be powered up at all times. Otherwise, the battery in the radio will be drained. If the battery needs to be replaced the yellow light will flash once every 5 seconds to indicate battery failure. To replace the battery, unscrew lid remove gray antenna sleeve, collapse the antenna and the radio is attached by Velcro and is easily removed. The unit requires two AA batteries.

### Summary of indicators and operators:

#### Green Power Indicator

<b>On</b>	<b>AC power OK</b>
<b>Off</b>	<b>No AC power</b>

#### Yellow Signal Indicator

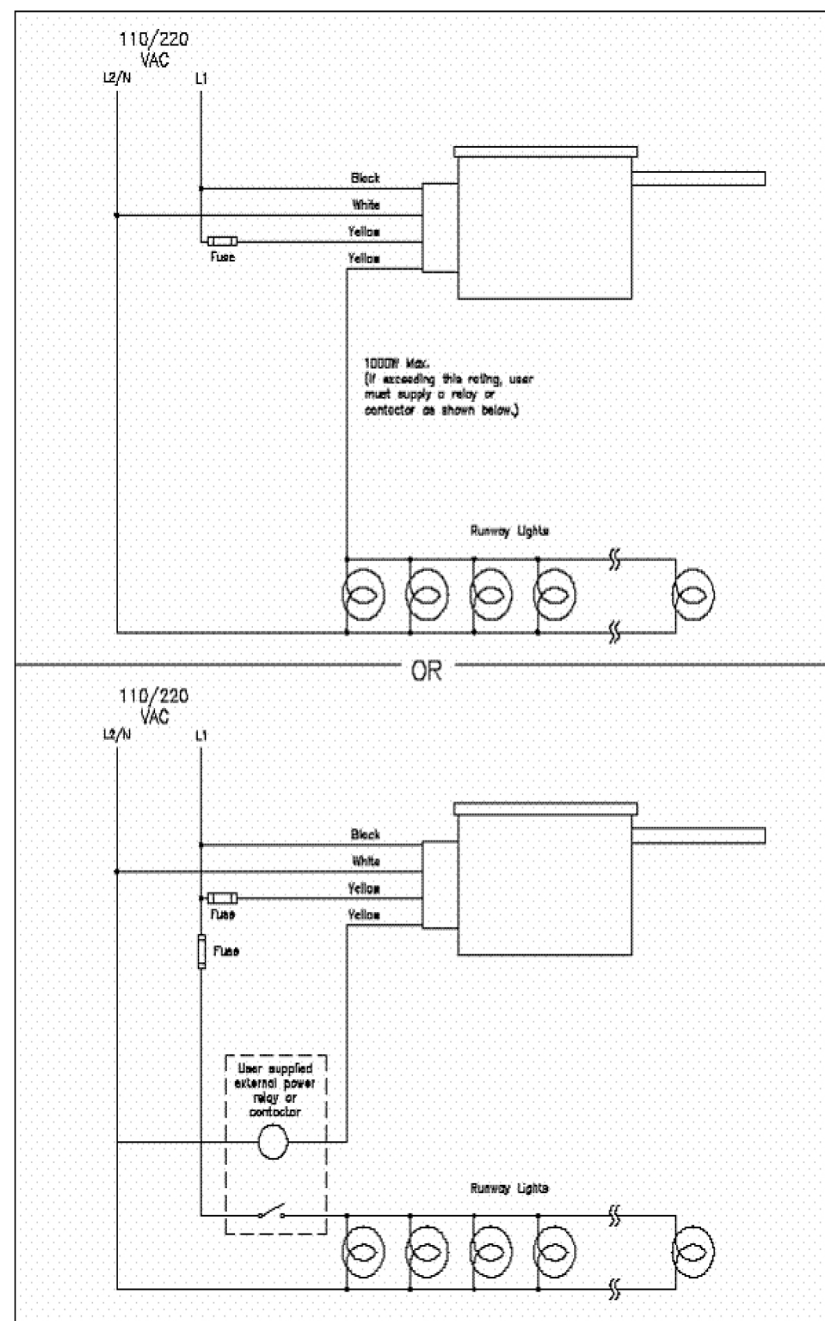
<b>Off</b>	<b>No signal present on preset frequency</b>
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<b>On</b>	<b>Signal is present on preset frequency</b>
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<b>Blinking erratically or on steady</b>	<b>Radio noise present on preset frequency</b>
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#### Yellow Manual Operation Button

<b>Press Momentarily</b>	<b>Turn on output for one time cycle</b>
<b>Press and hold for 3 seconds</b>	<b>Turn off output (abort timed cycle)</b>



# Notes



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