

# U-WAV

## Touchless Sensing Solution

**DURABILITY &  
50,000 HOURS  
DEPENDABILITY**



The U-WAV is a sensor switch designed for touchless activation of automatic doors, lighting controls, or call points. Ideal for sterile environments such as operating rooms or clean rooms, the U-WAV provides a complete hygienic solution for many different applications.

LARCO's U-WAV touch free switch is uniquely designed to be aesthetically pleasing, durable (made using ABS plastic), and provide reliable operation. Installation is easy, and the U-WAV's universal plate design fits most North American and European standard box sizes. CE and FCC approved.

### DESCRIPTION

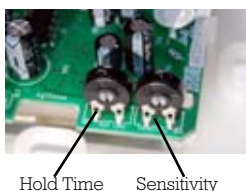


U-WAV

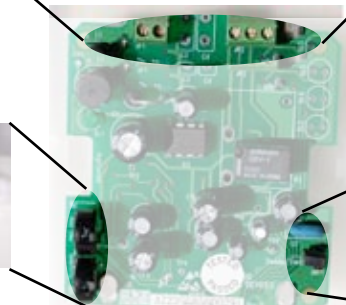


Cover Frame

Terminal blocks for power supply cables and relays



Hold Time      Sensitivity



For 'Switch' mode, short the jumper.



### TECHNICAL SPECIFICATIONS

Technology	: Microwave	Relay Output Ratings	: 24 VDC/120VAC
Radiated Frequency	: 10.525 +/-0.005GHz	Holding Time (Adjustable)	'Sense' Mode : 0.5 - 10 sec
Detection Range	: 4.0 - 20 in	Masking Time (Adjustable)	'Switch' Mode : 3 - 10 sec
Detection Mode	: Motion	Temperature Range	: -4 - 131 F
Operation Mode	Sense : Activate when there is a motion	Relative Humidity	: up to 95%
	Switch : Relay toggles when there is motion	Weight	: < 3 oz
Supply Voltage	: 12 - 24 VAC/DC	Dimensions	: 3.4" x 3.4" x 1.2"
Mains Frequency	: 50 - 60 Hz	Front Cover Color	: Grey
Power Consumption	: < 1W @ 12V		

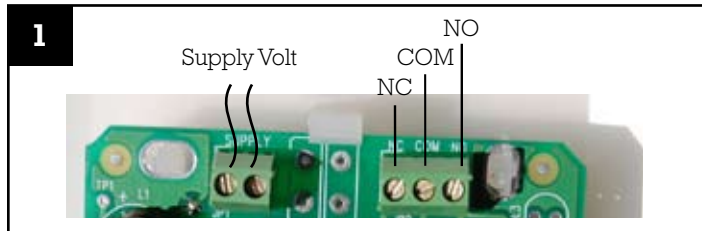
### FCC ID: RQL336806

This device complies with part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) This device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation. Note: This equipment has been tested and found to comply with the limits for a Class B 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: sReorient or relocate the receiving antenna. sConnect the equipment into an outlet on a circuit different from that to which the receiver is connected. sIncrease the separation between the equipment and receiver. sConsult the dealer or an experienced radio/TV technician for help.

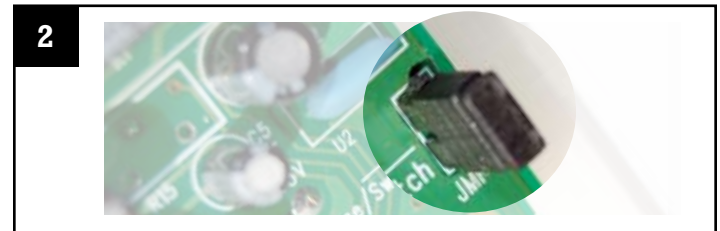
The user is cautioned that changes and modifications made to the equipment without the approval of the manufacturer could void the users authority to operate this equipment.

## INSTALLATION & MOUNTING INSTRUCTIONS

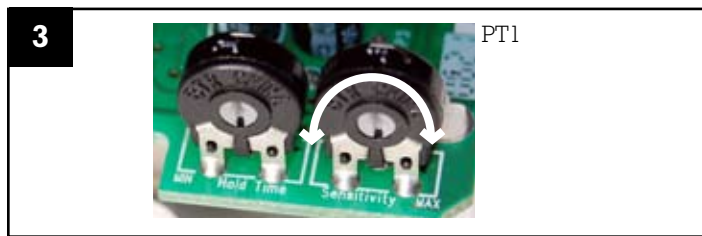
1. Pull the cable through the hole and secure it to the terminal block with the screws.



2. Select operation mode: - 'Sense' mode - Open  
- 'Switch' mode - Closed

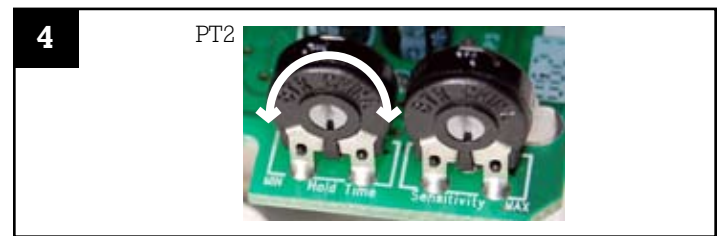


3. Select required detection range, adjust PT1 (Sensitivity).



For 'Sense' mode ONLY

4. Adjust PT2 (Hold time) to select desired holding time.



5. Pry the cover frame from the sensor switch with a screwdriver.

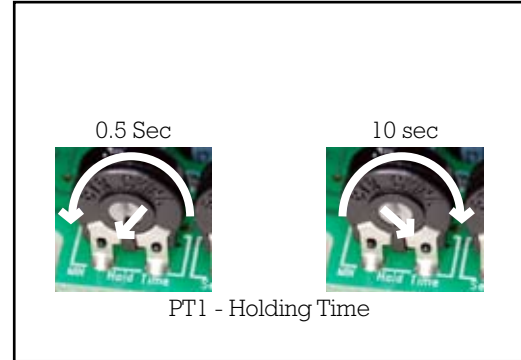
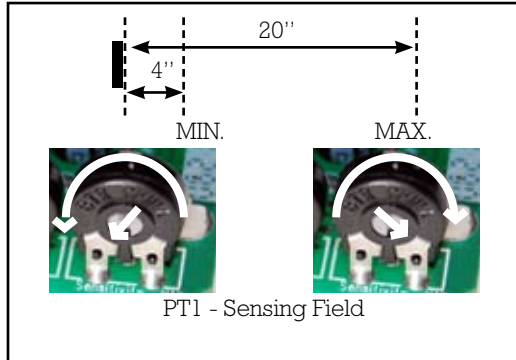
6. Power up the sensor and check whether the LED lights up.

7. Check the sensitivity and repeat step 5 if necessary.

8. Push the sensor switch into the box and screw the sensor tight.

9. Push the cover frame back onto the sensor to secure.

## SETTING THE SENSING FIELD AND HOLDING TIME



## TROUBLESHOOTING

### SYMPTOM

LED does not light up or blink (upon power up).

### CORRECTIVE ACTION

1. Check if the cable is screwed tight.
2. Check whether the supply is switched 'ON'.

Door does not open.

1. Check if LED is switched ON.
2. Check the sensor's connection.
3. Check the sensor Output (relay NC/NO) connections.

Door remains permanently open.

1. Check Holding Time (PT2).
2. Check for surrounding disturbance.
3. Reduce the Sensitivity level (PT1)
4. Check if it is in 'Switch' mode.