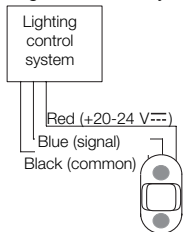
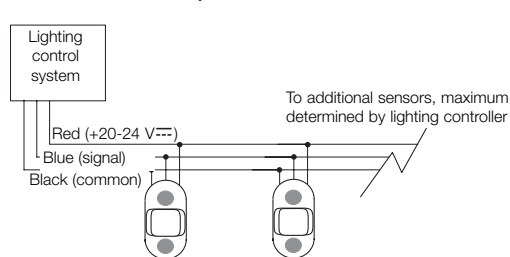


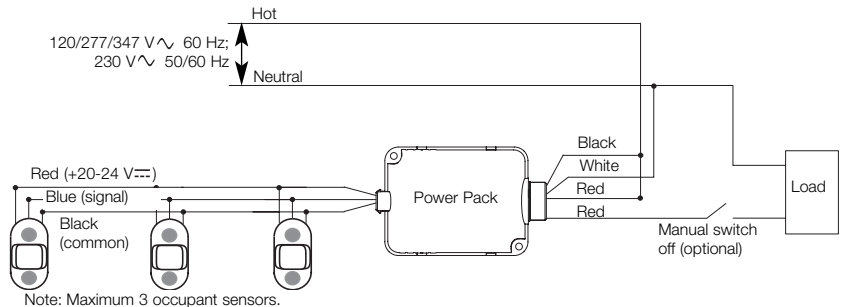
Single Sensor to System



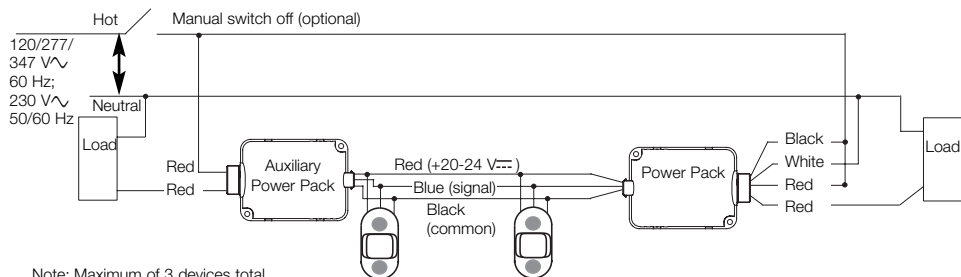
2 or More Sensors to System



1 to 3 Sensors with Power Pack



Switching Multiple Loads with Auxiliary Power Packs



TROUBLESHOOTING

Problem	Possible Cause	Test	Result
Lights stay on	Constant noise	Reduce red knob by 15%; remove noise source	Move sensor
Lights on too long	Timer setting too high	Check switch settings	Typical setting is 8 min.
Hallway traffic turns lights on	Infrared sensor "sees" into hallway	Put in timer test mode; walk along hallway	Move sensor
Sensor not responding	Unit is locked up	--	Cycle power to sensor



LIMITED WARRANTY

Lutron will, at its option, repair or replace any unit that is defective in materials or manufacture within one year after purchase. For warranty service, return unit to place of purchase or mail to Lutron at 7200 Suter Rd., Coopersburg, PA 18036-1299, postage pre-paid.

This warranty is in lieu of all other express warranties, and the implied warranty of merchantability is limited to one year from purchase. This warranty does not cover the cost of installation, removal or reinstallation, or damage resulting from misuse, abuse, or improper or incorrect repair, or damage from improper wiring or installation. This warranty does not cover incidental or consequential damages. Lutron's liability on any claim for damages arising out of or in connection with the manufacture, sale, installation, delivery, or use of the unit shall never exceed the purchase price of the unit.

This warranty gives you specific legal rights, and you may also have other rights which vary from state to state. Some states do not allow limitations on how long an implied warranty lasts, so the above limitation may not apply to you. Some states do not allow the exclusion or limitation of incidental or consequential damages, so the above limitation or exclusion may not apply to you.

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OCCUPANT SENSOR
LOS-W SERIES
Installation Instructions

Please Read

LOS-WIR
LOS-WDT
LOS-WDT-R
Class 2 (PELV) Devices

DESCRIPTION

The LOS-W Series of wall-mounted sensors incorporate infrared (WIR) and dual technologies--ultrasonic and infrared (WDT). They are used in spaces with pendant fixtures, ceiling fans, or high ceilings. They integrate into Lutron systems or function as stand-alone controls using a Lutron power pack.

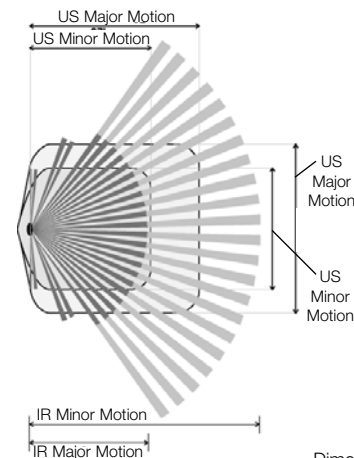
FEATURES

- Intelligent, continually adapting sensors
- 20-24 V, Class 2 (PELV) low voltage, 33 mA nominal
- 1600 sq.ft. coverage
- Flexible mounting on wall or ceiling
- Second dry contact closure output available on R models
- LED indicators: Ultrasonic (US)-green, Infrared (IR)-red
- For indoor use only

COVERAGE AND PLACEMENT

- The occupant sensor must have an unobstructed view of the room entrance. Do not mount behind or near tall cabinets, shelves, indirect hanging fixtures, etc.
- Keep the occupant sensor away from air flow.
- Place the sensor on the same wall as the doorway so that hallway traffic will not affect the sensor.
- Closely follow the diagrams for major and minor motion coverage.
- Decrease total coverage area by 15% for "soft" rooms (for example, heavy draperies or heavy carpeting).
- Indicated coverage is when sensor is mounted at 8 ft. high.

Motion Detection Ranges



Dimensions and Ranges are in feet (m).

Model	US Minor Dims.	US Major Dims.	IR Minor	IR Major
WIR	NA	NA	20 (6.1)	40 (12.2)
WDT	23 x 23 (7.0 x 7.0)	32 x 32 (9.8 x 9.8)	20 (6.1)	40 (12.2)
WDT-R	23 x 23 (7.0 x 7.0)	32 x 32 (9.8 x 9.8)	20 (6.1)	40 (12.2)



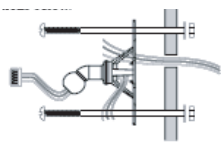
PRE-INSTALLATION

1. For installation by a qualified electrician in accordance with national and local codes and the following instructions.
2. For indoor use only.
3. **CAUTION: RISK OF ELECTRIC SHOCK. Disconnect power before installing. Never wire energized electrical components.**
4. **CAUTION: USE COPPER CONDUCTORS ONLY.**
5. **CAUTION: Do not connect this Class 2/PELV product to line voltage/mains cable.**
6. Check to see that the device type and rating is suitable for the application.
7. Do not install if product or lens have any visible damage.
8. If moisture or condensation is evident, allow the product to dry completely before installation.

INSTALLATION AND MOUNTING

Mounting to Wall or Ceiling Tile:

Redrill wiring routing hole and (2) mounting holes using Mounting Bracket as template. Route wires through wall and mounting bracket. Secure mounting bracket to wall/ceiling tile using mounting screws, nuts, and washers (included).



Mounting in Acoustic Ceiling Tile:

Twist threaded mounting post onto Mounting Bracket. Drill through ceiling tile with assembly. Secure with washer and nut. Route wiring through Mounting Bracket and connect to wire harness. Snap bracket cover in place to conceal wiring and bracket.



Either Method:

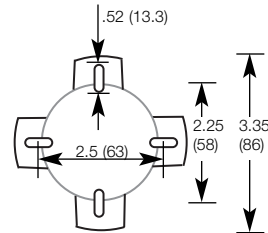
Feed wiring harness through the back of the sensor body and out the exit slot. Snap sensor onto mounting post. Plug wiring harness into connector on the left side (opposite exit slot) and place wiring under wire tabs. Align sensor and tighten position locking screw.



Wire Lengths (feet)

# Sensors	1	2	3	1	2	1
# Aux. PPs	0	0	0	1	1	2
22 AWG	750	375	250	375	250	250
20 AWG	1200	600	400	600	400	400
18 AWG	2400	1200	800	1200	800	800

Mounting Plate Dimensions



Measurements are in inches (mm)

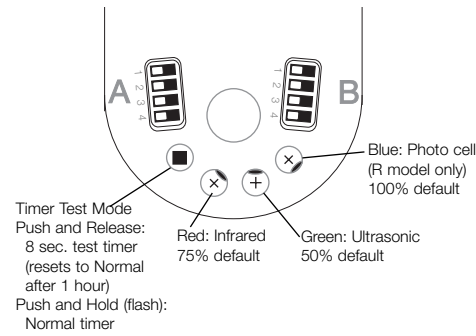
SENSOR ADJUSTMENTS

Override Settings

	Off (Default)	On
A	Automatic (Normal)	Manual lights on (Override)
	Not used	Not used
	LED on (Normal)	LED off
	Retain Settings (Normal)	Any change resets learned settings
B	OFF } 8 min.	ON } 15 min.
	OFF } min.	ON } 30 min.
	Auto Timer Adjust On	Auto Timer Adjust Off
	Auto Sensitivity Adjust On	Auto Sensitivity Adjust Off
	OFF } 4 min.	ON } min.
	OFF } min.	ON } min.

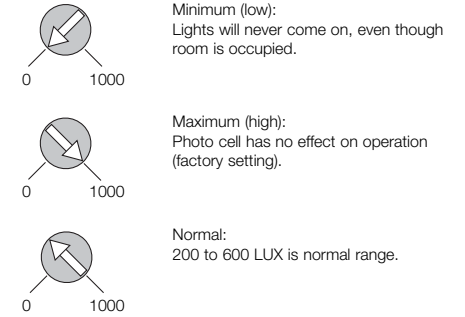
SENSOR ADJUSTMENTS

Factory Settings



Note: Not all models have every knob.

Control Settings (Blue Knob): LOS-WDT-R only



Adjusting the "Lights Not On" Level: LOS-WDT-R only

1. Ensure that the ambient light is at the desired level.
 2. Place sensor in Test Mode: Press and release black pushbutton.
 3. Set photo cell: Turn the blue knob full clockwise (lights on no matter how bright the natural light is), then about 30 degrees counterclockwise.
 4. Check for Lights-Out: Move from underneath the sensor, and remain still until the lights turn off. Move around normally to turn the light on.
 5. Adjust to desired level: If lights turn on, adjust the blue knob another 30 degrees counterclockwise and repeat step 3 until the lights remain off.
- Note:** Set blue knob to 100% to disable photo cell functionality and leave secondary dry contact closure output functionality intact.

WIRING DIAGRAMS

Relay Model Option: LOS-WDT-R only

