

Solo Sensor™

Cat. No. ZLS05-ILW

DI-000-ZLS05-05B

INSTALLATION INSTRUCTIONS

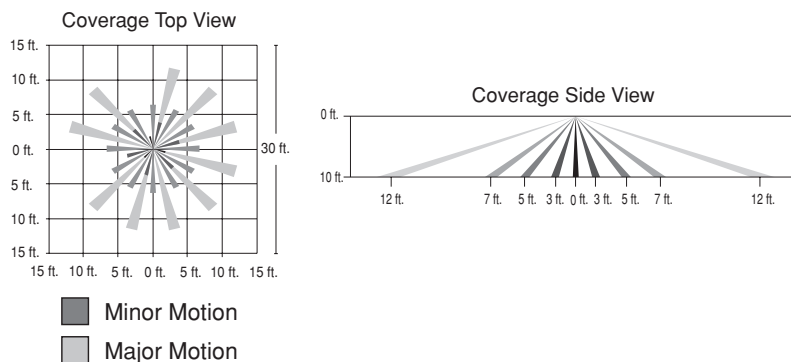
ENGLISH

DESCRIPTION

- Leviton® Cat. No. ZLS05-ILW is a low-voltage occupancy and daylight harvesting sensor designed for installation directly into an indoor lighting fixture. The sensor is designed for individual control of 0-10VDC dim-to-off LED drivers, with an auxiliary power supply of 12-24VDC required to power the sensor. Configure the dimming profile and output settings of the sensor using DIP switches or Leviton Cat. No. ZLS0R-RA1, IR remote control.
- An integrated daylight harvesting sensor can be enabled by using the IR remote control to measure the available ambient light and to adjust the lighting output of the fixture between user-defined task and stand-by lighting levels. When disabled, the fixture will dim to the stand-by level after the hold time has expired. If occupancy is not detected, the fixture turns OFF at the end of the stand-by time.
- The sensor uses Passive Infrared (PIR) detection technology to monitor for occupancy, and controls the fixture based on user-selectable settings. PIR detection may be disabled using the IR remote control. The fixture will remain ON regardless of occupancy and if enabled, daylight harvesting will continue to operate.
- The sensor may be installed into your fixture by the fixture manufacturer. When the sensor is pre-installed in a fixture, refer to the fixture documentation for installation methods, means and requirements.

NOTES:

- Requires 0-10V dim-to-OFF driver with AUX power supply.
- If pre-installed into a fixture, and you are replacing, refer to fixture instructions for appropriate installation.
- Sensor is designed for a mounting height of 8 ft., with a fixture spacing-to-mounting height ratio of 1:1.
- Maximum mounting height is 10 ft.

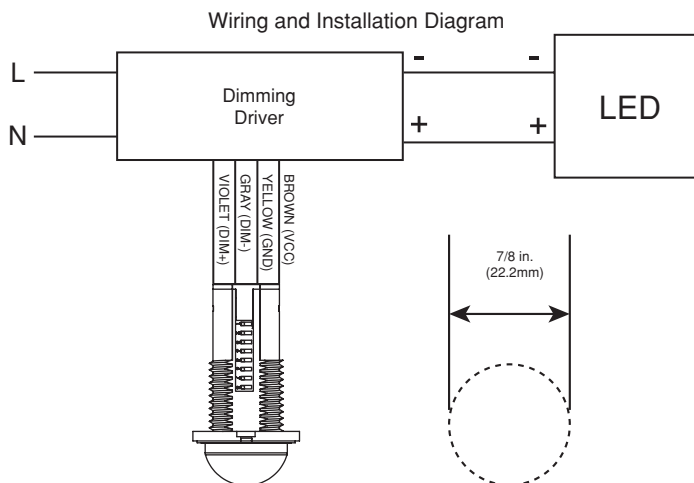


Specifications	
Input Rating	Class 2, 12-24VDC, 50mA
Dim Control Output	0-10V, 25mA sinking
Purpose of Control	Energy Management Equipment
IP Rating	IP20
Operating Temperature	-20°C to 70°C (-4°F to 158°F)
Storage Temperature	-20°C to 85°C (-4°F to 185°F)

INSTALLATION

WARNING: TO AVOID FIRE, SHOCK, OR DEATH, TURN OFF POWER at circuit breaker or fuse and test that power is off before wiring!

- Confirm factory default DIP switch settings and configure as required.
 - Task Level: 100%
 - Occupied Timeout: 10 seconds
 - Stand-by Level: 20%
 - Stand-by Time: 30 minutes
- Position sensor in 7/8 in. diameter round punch hole in fixture and secure, using included plastic lock nut.
 - See installation diagram.
- Connect sensor to LED driver and apply power.
 - See wiring diagram.
 - Use 18 AWG or larger wires suitable for at least 90°C.
- At first power-up, the sensor may require a warm-up period of up to 40 seconds.
- Observe red LED indicator to confirm sensor is operational.



FOR OPTIMAL PERFORMANCE:

The ZLS05 Solo Sensor lens establishes dozens of zones of detection. The sensor is sensitive to the heat emitted by the human body. To trigger the sensor, the source of heat must move from one zone of detection to another. The device is most effective in sensing motion across its field-of-view, and less effective sensing motion towards or away from its field-of-view. Keep this in mind when selecting the installation location. Note that occupancy sensors respond to rapid changes in temperature, so care should be taken not to mount the device near a climate-control source (i.e. radiators, air exchanges, and air conditioners). Hot or cold drafts will look like body motion to the device and will trigger it if the unit is mounted too close. It is recommended to mount the Occupancy Sensor at least 6 ft. away from a climate-control source. In addition, it is also recommended NOT to mount the Occupancy Sensor directly under a large light source. Large wattage bulbs (greater than 100W incandescent) give off a lot of heat and switching the bulb causes a temperature change that can be detected by the device. Mount the Occupancy Sensor at least 6 ft. away from large bulbs. If it necessary to mount the device closer, lower the wattage of the bulb directly overhead. For applications involving daylighting harvesting, please ensure sensor and fixture are installed in locations that receive sufficient ambient light.

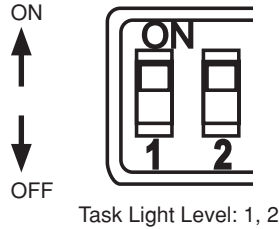
OPERATION

The ZLS05 Solo Sensor is designed to operate per configuration settings set by DIP switch, or using the ZLS0R-RA1 remote control. See user manual for more information on ZLS0R-RA1 features and operation.

CONFIGURATION

TASK LIGHT LEVEL

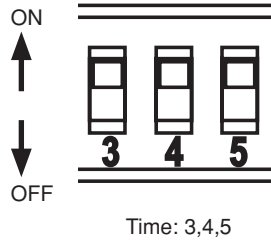
Set desired task light level. When occupancy is detected, light turns ON to task level. If daylight harvesting is enabled, light level will dim between task and stand-by level, depending upon amount of ambient daylight.



Task Light Level		
1	2	%
↓	↓	70%
↓	↑	80%
↑	↓	90%
↑	↑	100%

OCCUPIED TIMEOUT SETTING

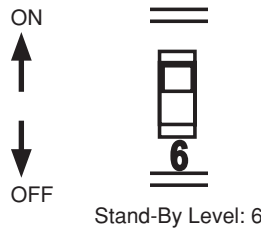
Set desired timeout period. Light will remain on until timeout expires. Any motion detected during this time will restart the timeout period.



Time			
3	4	5	
↓	↓	↓	10 seconds
↓	↓	↑	30 seconds
↓	↑	↓	1 minute
↓	↑	↑	3 minutes
↑	↓	↓	5 minutes
↑	↓	↑	10 minutes
↑	↑	↓	15 minutes
↑	↑	↑	30 minutes

STAND-BY LIGHT LEVEL SETTING

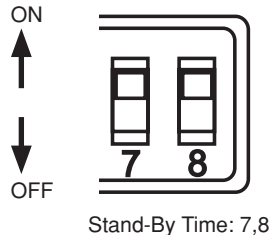
Set desired stand-by level. After the occupied timeout has expired, light will dim to the stand-by level.



Stand-By Level	
6	%
↓	20%
↑	50%

STAND-BY TIME SETTING

Set desired stand-by time. Light will remain at stand-by level until time period expires or motion is detected.



Stand-By Time		
7	8	
↓	↓	1 minute
↓	↑	30 minutes
↑	↓	60 minutes
↑	↑	+ ∞

FCC STATEMENT:

This equipment has been tested and found to comply with the limits for a Class A digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference when the equipment is operated in a commercial environment. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instruction manual, may cause harmful interference to radio communications. Operation of this equipment in a residential area is likely to cause harmful interference in which case the user will be required to correct the interference at his own expense.

Any changes or modifications not expressly approved by Leviton Manufacturing Co., could void the user's authority to operate the equipment.

FCC SUPPLIERS DECLARATION OF CONFORMITY (SDOC):

Model ZLS05-ILW manufactured by Leviton Manufacturing Co., Inc., 201 North Service Road, Melville, NY 11747. <http://www.leviton.com>. 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.

IC STATEMENT:

This device complies with Industry Canada license-exempt RSS standard(s). Operation is subject to the following two conditions: (1) this device may not cause interference, and (2) this device must accept any interference, including interference that may cause undesired operation of the device.

FOR CANADA ONLY

For warranty information and/or product returns, residents of Canada should contact Leviton in writing at Leviton Manufacturing of Canada ULC to the attention of the Quality Assurance Department, 165 Hymus Blvd, Pointe-Claire (Quebec), Canada H9R 1E9 or by telephone at 1-800-405-5320.

LIMITED 5 YEAR WARRANTY AND EXCLUSIONS

Leviton warrants to the original consumer purchaser and not for the benefit of anyone else that this product at the time of its sale by Leviton is free of defects in materials and workmanship under normal and proper use for five years from the purchase date. Leviton's only obligation is to correct such defects by repair or replacement, at its option. For details visit www.leviton.com or call 1-800-824-3005. This warranty excludes and there is disclaimed liability for labor for removal of this product or reinstallation. This warranty is void if this product is installed improperly or in an improper environment, overloaded, misused, opened, abused, or altered in any manner, or is not used under normal operating conditions or not in accordance with any labels or instructions. There are no other or implied warranties of any kind, including merchantability and fitness for a particular purpose, but if any implied warranty is required by the applicable jurisdiction, the duration of any such implied warranty, including merchantability and fitness for a particular purpose, is limited to five years. Leviton is not liable for incidental, indirect, special, or consequential damages, including without limitation, damage to, or loss of use of, any equipment, lost sales or profits or delay or failure to perform this warranty obligation. The remedies provided herein are the exclusive remedies under this warranty, whether based on contract, tort or otherwise.

For Technical Assistance, Call: 1-800-824-3005 (USA Only) or 1-800-405-5320 (Canada Only) www.leviton.com