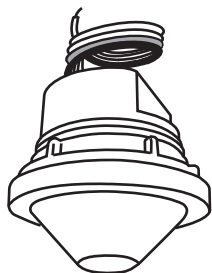


TRANS

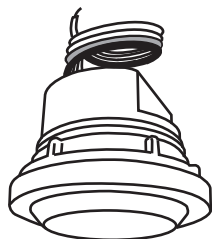
LOS-502Sxx UV series

Line Voltage Occupancy Sensor

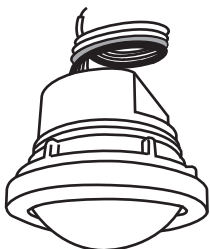
INSTALLATION INSTRUCTIONS



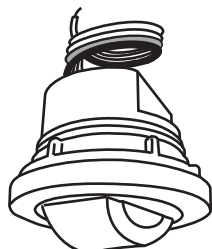
w/Lens A/B/C



w/Lens D



w/Lens F



w/Lens G

*More lens options are available for this sensor.
Please refer to the Lens Datasheet for more details.

OVERVIEW

The LOS-502Sxx-UV is a line voltage occupancy sensor specially designed with reverse logic for UV lighting control. This sensor employs a cutting edge quad element pyroelectric infrared sensor with easy twist-lock lens to provide omni-directional sensing capability of occupant's presence and movements. The sensor will shut off the human hazardous UV-C lighting when it detects the presence of an occupant.

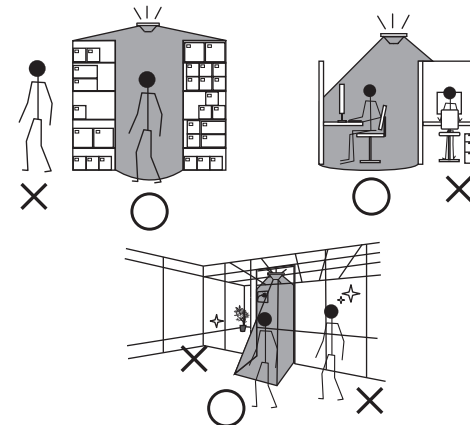
The LOS-502Sxx-UV has an ambient light sensor (ALS) built-in to inhibit germicidal lighting during daytime. A specialized timer allows the sensor to be used in rooms with no daylight present. The combination of these intelligent schemes enables the sensor to turn on the UV light once every 24 hours to prevent unnecessary lighting cycle. Two Accu-Set digital potentiometers allow you to set the ON-delay and RUN time with ease and accuracy. ON-delay is the delay time that sensor will turn on the UV lighting after the area is vacated. RUN time is the operation cycle time of UV light.

This unique occupancy sensor can be used to inhibit the undesired operation of the UV light that may be harmful or dangerous to the occupant. Typical applications include UV based germicidal lighting, radioactive devices, automatic chemical sterilization, hazardous material supply, and dangerous machine operation.

Like all sensors in the TRANS family, the LOS-502Sxx-UV series is available with various mounting options and interchangeable lenses. This provides a second-to-none design and complete installation flexibility. The sensor is designed to operate in the coldest of environments, down to -40°C/°F.

INSTALLATION NOTES

1. The sensor is more sensitive to the movements "crossing" the detection zones than "toward" or "away" the sensor unit. To obtain better sensitivity, avoid placing the sensor in line with occupant path, if possible.
2. The closer the movement is to the sensor, the more sensitive the sensor is. The higher the sensor is installed, the larger movement is required to be detected.
3. Ensure to place the sensor at least at 1.5m (5 ft.) away from air supply ducts as rapid air flow may cause false activations.
4. The sensor cannot "see" the movements behind obstacles, such as furniture, shelf, glass or partition. As a general rule, each occupant should be able to clearly view the sensor unit.
5. For open office areas with partition which could block the sensor view to occupant movements, it is best to place the sensors over the intersection of multiple workstations. For large areas of open office or space, place multiple sensors so that there is overlap coverage with each adjacent sensor.



⚠ WARNING & CAUTION

- Risk of Electric Shock - Disconnect power supply before servicing.
- Do NOT touch the square window of infrared sensor under the lens assembly.
- Open Type Photoelectric Switches.
- Cycling the power to the sensors will cause failure over time.

⚠ AVERTISSEMENT & PRUDENCE

- Risque de choc électrique -Débranchez l'alimentation avant l'entretien.
- Ne PAS toucher la fenêtre carrée de capteur infrarouge sous l'ensemble de l'objectif.
- Ouvrir Type commutateurs optoélectroniques.



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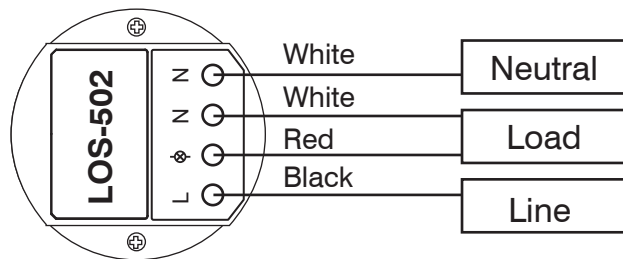
Printed in Taiwan

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Please visit www.irtec.com for more information.

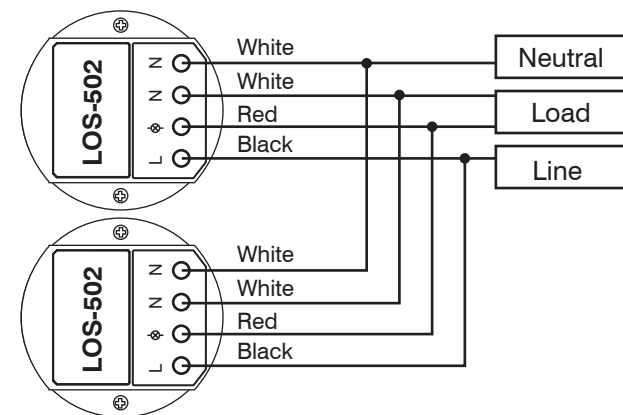
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WIRING DIAGRAM

A. Single sensor control



B. Multiple sensors control



TESTING

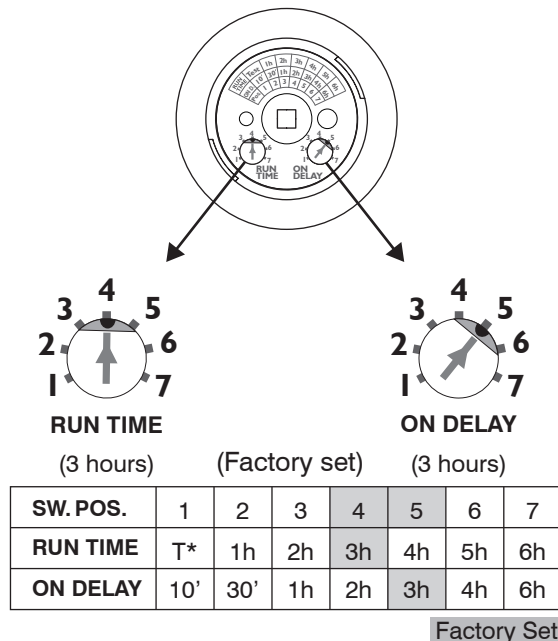
Sensor Range Test

1. Ensure the shaft of RUN TIME is set at "1" position. The RUN TIME and ON DELAY will be shortened to 10 seconds for the duration of 10 minutes.
2. Walk within the desired range* at normal speed. Light should be switched OFF as ON delay time set whenever sensor detects the presence or movement of occupant.
3. The LED indicator behind the lens assembly will blink to indicate sensor detection as well.

NOTE: Ensure to set RUN TIME at the desired position for optimum operation after test. The settings will resume to factory default if the shaft has not been set to other position after 10 minutes.

* Depending on the lens type ordered and mounting height, the sensor could have different sensing coverage as instructed on the LENS DATASHEET attached.

SENSOR SETTINGS



*T=10 seconds shorten RUN TIME and ON DELAY for testing convenience. The UV light will automatically resume to the factory default setting after 10 minutes, if the potentiometer has not been adjusted to other position.

RUN TIME

This sensor offers 6 different run time selection via Accu-Set potentiometers. The UV light will remain ON for the set run time at night. Point the arrowhead of the RUN TIME potentiometer to the desired time.

ON DELAY

This sensor offers 7 different on delay time selection via Accu-Set potentiometers. The sensor will turn ON the UV light after the area is vacated at night. Point the arrowhead of the ON DELAY potentiometer to the desired time.

SPECIFICATIONS

Power supply	120/277VAC, 50/60Hz
Infrared sensor	Omni-directional quad element pyroelectric
Maximum load	Ballast Electronic (LED) – 540/1200VA@120/277V
Power consumption	<0.5W @277VAC
Detectable speed	1~10 ft./sec. (0.3~3 m/sec)
Mounting height	Subject to the lens type applied
Detection range	Subject to the lens applied and height
ON delay	10'/30'/1/2/3/4/6H
Run time	T/1/2/3/4/5/6H, T=10 sec. for testing
Humidity	Max. 95% RH
Op. temperature	-40°F~131°F (-40°C~55°C)
Dimensions	Ø2.36"x H1.45"(Ø60 x H37mm)

WARRANTY

IR-TEC International Ltd. warrants this product to be free of defects in materials or workmanship for a period of five years from date of shipment. There are no obligations or liabilities on the part of IR-TEC International Ltd. for consequential damages arising out or in connection with the use or performance of this product or other indirect damages with respect to loss of property, revenue, or profit, or cost of removal, installation or reinstallation.