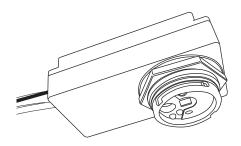


# ON-LRD-309S

Line Voltage OS-NET Sensor

## **INSTALLATION INSTRUCTIONS**



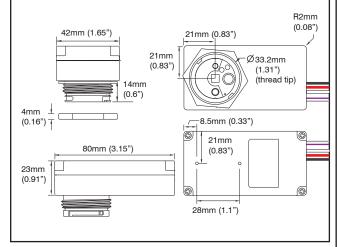
Indoor dry location use only **Utilisation a L'interieur Uniquement** 

## **INTRODUCTION**

The ON-LRD-309S is a low profile OS-NET Sensor (ONS) packed with multiple sensing control functionalities including occupancy/vacancy sensing, daylight harvesting, bi-level StepDIM or continuous SmartDIM. and wireless mesh networking capability for top-notch intelligent lighting control.

Being a member of Mini ONS, this sensor can be integrated with general office luminaires through a 1" hole. A flat lens provides excellent detection to the office activities within its coverage. With ON-LRD-309S, you can effortlessly achieve code-compliant, energy efficient smart lighting control through a wireless sensor mesh network effortlessly deployed while installing the OS-NET enabled luminaires in commercial environments.

#### **DIMENSIONS**



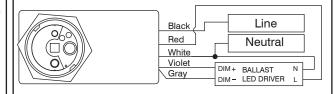
## **WARNING & CAUTION**

- 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.
- Install this device in accordance with electrical codes and protect with circuit breaker.
- Install the sensor at least 1 ft. away from any occupant.
- Cycling the power to the sensors will cause failure over time.

## **A** 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.

### **WIRING DIAGRAM**



#### NOTE:

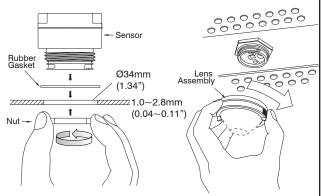
- 1. Use 0/1-10V dimmable driver/ballast to enable dimmina control.
- 2. Ensure to connect the LINE and NEUTRAL wires correctly. Reverse connection may damage the sensor permanently.
- 3. Ensure TOTAL isolation between DIM+/DIM- and GROUND of line voltage to avoid damaging the
- 4. Always conduct factory test with GROUND

### **APPLICATION 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.
- 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
- 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.
- The sensor cannot "see" the movements behind obstacles, such as tall furniture, shelf, glass or partitions. Avoid placing the sensor where obstructions may block the sensor's line of sight.
- 5. The partition of workstation could block the sensor view to occupant movements, it is best to place the sensor over the intersection of workstation. For large open office, place multiple sensors so that there is overlap coverage with each adjacent sensor.
- 6. To obtain optimal wireless communication range, avoid enveloping the sensor with a metallic enclosure.

### **MOUNTING**

The sensor can be integrated with lighting fixture through a round hole with 34mm (1.34") diameter.



## **SPECIFICATIONS**

	Power supply	120/277VAC, 50/60Hz		
	Maximum Load	120VAC	277VAC	
	-Fluorescent Ballast/CFL	800/*500W(VA)	1200/*750W(VA)	
	-Incandescent/Halogen	800/*500W(VA)	1200/*750W(VA)	
	-Ballast Electronic (LED)	540/*500VA	1200/*750VA	
	Infrared sensor	Digital quad-element pyroelectric sensor		
	Dim control	0-10V, ±5%, isolated, max 25mA		
	HIC protection	Max. 80A for 16.7msec.		
	Wireless protocol	Modified Zigbee Light Link (ZLL)		
	Radio frequency	2405~2475MHz		
	Number of Channel	15ch		
	Radio range	15/90 m @indoor/outdoor, open space		
	Radio Power Output	5.63dBm		
	Detectable speed	0.15 ~ 3 m/sec. (0.5~10 ft./sec.)		
	Mounting height	Subject to the lens applied		
	Detection range	As per lens applied and mounting height		
	Remote range	Typ. 10 m (33 ft), indoor with no backlight		
	Op. humidity	Max. 95% RH		
	Op. temperature	-40°C~70°C (-40°F~158°F)		
	Dimensions	80x42x37mm (3.15"x1.65"x1.46")		
*Max load for operating temperature at 55°C~70		~70°C(131°F~158°F)		

















## **SETTING**

All sensor settings can be configured, in individual or group basis, by an OS-NET Remote Programmer SRP-281. Following table highlights the setting items and options available with ON-LRD-309S. For detailed setting operation, please refer to the OS-NET Programming Guide available for download from www.irtec.com.



		-		
Settings	Description	Options	Default	
INDIV-SET	To setup an individual device			
GROUP-SET	To setup all devices of the group with same settings			
CONTROL	Control schemes available for OS-NET sensor.	ON/OFF, OSO, OSLA, OSLATO, DSVM, DS VSC, OSB, OFF	SC, OSLATO	
AMBIENT LUX	Thresholds of ambient light level for OS-NET sensor to execute the control.	10/20/40/60/80/200/400/600/1000/2000 LUX DISABLED/CURRENT	DISABLED	
DELAY	AY Delay time that sensor will turn off or fade down the light. 30 sec./1/3/5/10/15/20/30/60 min.		10 min.	
TIME OFF	Delay time that sensor will keep the light at low dim level after the OFF delay time elapsed.	10/30 sec./3/5/10/15/20/30/45/60 min.	10 min.	
HIGH DIM	High dim is the output level set to control the light during occupancy, or when ambient light is lower than the threshold if daylight sensing scheme is selected.	50/55/60/65/70/80/90/100%/SmartDIM	100%	
LOW DIM/ SmartDIM	Low dim is the output level set to dim the light when space is vacant for bi-level control. Low dim setting will become SmartDIM bar if SmartDIM control is selected.	0/5/10/15/20/25/30/40%	30%	
RAMP UP	Speed of lighting output increase.	INSTANT/SOFT/SLOW	INSTANT	
FADE DOWN	Speed of lighting output decrease.	INSTANT/SOFT/SLOW	SOFT	
LED INDICATOR	Enable or disable the LED indicator of the sensor.	ENABLED/DISABLED	ENABLED	
VM-TB	Time duration BEFORE Virtual Midnight. Only available if DSVM is selected.	0.5/1/1.5/2/2.5/3/3.5/4/4.5/5/5.5/6 hour		
VM-TA	M-TA Time duration AFTER Virtual Midnight. Only available if DSVM is selected.  0.5/1/1.5/2/2.5/3/3.5/4/4.5/5/5.5/6 hour		4 hours	
SENSITIVITY	Sensitivity of occupancy sensor. To disable the occupancy sensing capability, select OFF.	HIGH/NORMAL/LOW/OFF	HIGH	

## SETTING ACKNOWLEDGEMENT

The sensor will acknowledge setting success or failure with different indications by device LED or connected lighting.

INDICATION	ACKNOWLEDGEMENT	REMARKS
Device LED fast blinking in GREEN and BLUE.	The device is scanning and linking to the network.	The fast blinking (on-off per 0.2 second) only appears during network linking.
Device LED blinks twice every 2-second in GREEN or BLUE.	The second second second	GREEN means the device is network linked. BLUE means the device is unlinked.
Device LED blinks twice every 2-second for 5 minutes, and then 15-second after power applied.	, , , , , , , , , , , , , , , , , , , ,	GREEN means the device is network linked. BLUE means the device is unlinked.
Device short beeps twice.	Receiving a single setting or control command.	
Device beeps one long and two short. The connected lights flash twice.	Multiple setting data UPLOAD successful.     GROUP LINK successful.	
The connected lights flash twice.	Factory default setting resumed.     SmartDIM setting completed.	

#### Federal Communication Commission Interference Statement FCC ID: NRIRS530900

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 undersidence deperation.

-Increase the separation between the equipment and receiver.

-Increase the separation betw

operation.

This equipment has been tested and found to comply with the limits for a Class B digital 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, find installation 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 communications are considered in the control of the

FCC Caution: Any changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate this equipment. This transmitter must not be co-located or operating in conjunction with any other antenna or transmitter.

Radiation Exposure Statement:
This equipment complies with FCC radiation exposure limits set forth for an uncontrolled environment. This equipment should be installed and operated with minimum distance 20cm between the radiator & your body.

## **CONTROL SCHEME**

The ON-LRD-309S series can be programmed to control the connected lighting in one of the schemes as below.

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This is a daylig than the set through than the set through the sensor will within the pressight when the a NOTE: This sold whenever ambiting the sensor turn off. The occupant volume level or conwill control the NOTE: This sold and the delay time the sensor term of the sensor turn off. The occupant volume level or conwill control the NOTE: This sold and the delay time the sensor turn off. The occupant light less ambient light less connected light occupancy, and group turns off.	ent light level is lower than the set threshold.		
than the set the The sensor will within the press light when the a NOTE: This sol whenever ambit The occupant v Dim level or cor will control the NOTE: This sol and the delay ti Lighting will be ambient light le connected light occupancy, and group turns off	ht sensing control scheme can be applied in spaces that require automatic lighting whenever the ambient light is lower		
The sensor will within the pre-s light when the a NOTE: This sol whenever ambit of the compant with the compant will control the NOTE: This sol and the delay to Lighting will be ambient light le connected light occupancy, and group turns off			
within the presslight when the a NOTE: This scl whenever ambit of the coupant with the coupant with the coupant will control the NOTE: This scl and the delay time to the coupant will control the school and the delay time to the coupant will be ambient light le connected light occupancy, and group turns off			
light when the a NOTE: This sol whenever ambi  ISC This is a vacan sensor turn off The occupant v Dim level or con will control the NOTE: This sol and the delay ti This is an advararea of entire lighting will be ambient light le connected light occupancy, and group turns off	automatically turn on the light to High Dim level or continuously regulate the output to maintain overall lighting level		
NOTE: This sol whenever ambi  'SC This is a vacan sensor turn off the occupant v Dim level or con will control the NOTE: This sol and the delay ti  This is an advararea of entire lighting will be ambient light le connected light occupancy, and group turns off	et range by SmartDIM control when the ambient light level is lower than the set threshold, and automatically turn off the		
whenever ambi /SC This is a vacan sensor turn off The occupant v Dim level or cor will control the NOTE: This sol and the delay ti  This is an advararea of entire lighting will be ambient light le connected light occupancy, and group turns off	ambient light level is higher than the set threshold.		
This is a vacan sensor turn off The occupant v Dim level or cor will control the NOTE: This sol and the delay ti This is an advarance of entire lighting will be ambient light le connected light occupancy, and group turns off	heme requires <b>dimmable</b> lighting to enable dimming control. If lighting is <b>non-dimmable</b> , all lights will remain on		
sensor turn off The occupant v Dim level or cor will control the NOTE: This scl and the delay ti This is an advar area of entire lig Lighting will be ambient light le connected light occupancy, and group turns off	ent light level is lower than the threshold.		
sensor turn off The occupant v Dim level or cor will control the NOTE: This scl and the delay ti This is an advar area of entire lig Lighting will be ambient light le connected light occupancy, and group turns off	cy sensing control scheme can be applied in spaces that require users to manually turn on the light, and have the		
The occupant v Dim level or cor will control the NOTE: This scl and the delay ti  This is an advar area of entire lig Lighting will be ambient light le connected light occupancy, and group turns off	the light automatically.		
Dim level or conwill control the NOTE: This scl and the delay to This is an advar area of entire lighting will be ambient light le connected light occupancy, and group turns off	vould have to press the OS-NET Button to turn on the lighting group assigned. The sensor will control the lights at High		
will control the NOTE: This sol and the delay ti DSB  This is an advar area of entire lig Lighting will be ambient light le connected light occupancy, and group turns off	ntinuously regulate the output to maintain overall lighting level within the pre-set range by SmartDIM control. The sensor		
NOTE: This sol and the delay ti DSB  This is an advar area of entire lig Lighting will be ambient light le connected light occupancy, and group turns off			
and the delay ti  This is an advarage of entire lighting will be ambient light le connected light occupancy, and group turns off	connected lighting as per OSLATO scheme.		
This is an advar area of entire lig Lighting will be ambient light le connected light occupancy, and group turns off	heme requires <b>dimmable</b> lighting to enable dimming control. If lighting is <b>non-dimmable</b> , there will be no dim control		
area of entire lig Lighting will be ambient light le connected light occupancy, and group turns off	me will be extended with the TIME OFF (TO) delay.		
area of entire lig Lighting will be ambient light le connected light occupancy, and group turns off	nced <b>occupancy sensing control</b> scheme can be applied in open offices to provide background light level before the		
ambient light le connected light occupancy, and group turns off	ghting group is vacant.		
ambient light le connected light occupancy, and group turns off	inhibited if the ambient light level is higher than the set threshold, regardless of occupancy or vacancy. When the		
connected light occupancy, and group turns off	vel is lower than the set threshold and the first occupant is detected by a grouped sensor, the output of sensor		
occupancy, and group turns off	will be increased to High Dim level or continuously regulated within the pre-set range by SmartDIM control during		
group turns off			
19	If the unoccupied areas of entire lighting group will brighten up to Low Dim level as background light. The entire lighting		
	after the last person leaves and delay time elapsed.		
	use this scheme to control <b>non-dimmable</b> lighting.		
OFF This is a manua	al control scheme can be used when you need the light to be off for a certain period of time.		



