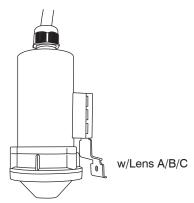


ON-LRD-609SA series

Line Voltage OS-NET Sensor

INSTALLATION INSTRUCTIONS



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

APPLICABLE REMOTE (order separately)

Model	Description	Remarks
SRP-281	OS-NET Remote Programmer	Full functionality
URP-100	User Remote	Manual ON/OFF/DIM TIME/LUX setting

WARNING & CAUTION

- Risk of Electric Shock Disconnect power supply before
- 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'obiectif.
- Ouvrir Type commutateurs optoélectroniques.

OVERVIEW

The ON-LRD-609SA series is a fundamental device of OS-NET wireless mesh network solution packed with multiple functionalities including ccupancy/vacancy sensing, daylight harvesting, bi-level StepDIM or continuous SmartDIM, and wireless network communication for top-notch intelligent lighting control.

The sensor comes with an universal mounting design which provides complete installation flexibility. Interchangeable lenses allow the sensor to be mounted at various heights with different detection patterns for all applications. All functionalities can be easily and intuitively configured by a 2-way remote programmer from the floor. With ON-LRD-609SA, you can effortlessly achieve energy efficient, code-compliant smart lighting control through a state-of-the-art wireless mesh network synchronously established while installing the OS-NET enabled lighting.

SPECIFICATIONS Power supply 120/230/277VAC, 50/60Hz Maximum load 120VAC 230VAC 277VAC -Fluorescent Ballast/CFL | 800/*500W(VA) 5A 1200/*750W(VA) -Incandescent/Halogen 800/*500W(VA) 5A 1200/*750W(VA) -Ballast Electronic (LED) 540/*500VA 5A 1200/*750VA Infrared sensor Digital pyroelectric sensor Dim control 0-10V, ±5%, isolated, max, 25 mA HIC protection Max. 80A for 16.7msec. Wireless protocol Modified Ziabee Light Link (ZLL) Radio frequency 2405~2480MHz Number of channel 16ch Radio range **15/90 m @indoor/outdoor, open space Radio power output 6.98dBm Detectable speed $|0.15 \sim 3 \text{ m/sec.} (0.5 \sim 10 \text{ ft./sec.})$ 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~60°C (-40°F~140°F)

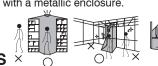
*Max load for operating temperature at 55°C~60°C(131°F~140°F) **Actual radio range may differ depending on environmental conditions.

L65xW73xH131mm (L2.56"xW2.87"xH5.16")

Federal Communication Commission Interference Statement

APPLICATION NOTES

- 1. Actual radio range may differ depending on environmental conditions. Always do a site survey to understand existing
- 2. Ensure to place the sensor at least at 1.5m (5 ft.) away from any Wi-Fi router as they can mask or delay signals.
- 3. 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.
- 4. 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.
- 5. 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.
- 6. 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
- 7. 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.
- 8. To obtain optimal wireless communication range, avoid enveloping the sensor with a metallic enclosure.



LENS OPTIONS

Different lenses can be applied to provide specific coverage at different mounting heights. Please refer to the lens datasheet attached for more details.

FCC ID: NRIRS350900

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.

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, 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 of the following measures:

Reorient or relocate the receiving antenna.

Increase the separation between the equipment and receiver.

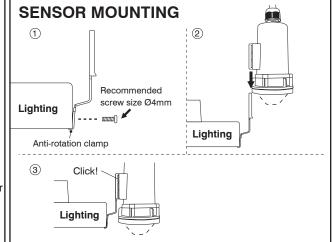
-Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.

Consult the dealer or an experienced radio/TV technician for help.

FCC Caution: Any changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate

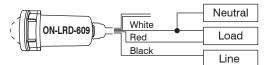
This transmitter must not be co-located or operating in conjunction with any other antenna or transmitter.

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.

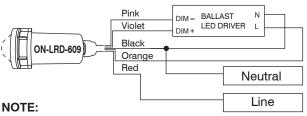


WIRING DIAGRAM

Non-dimmable Lighting (ON/OFF Switching only)



0-10V Dimmable Lighting



- 1. Use 0/1-10V dimmable driver/ballast to enable dimming 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 connected.















Dimensions



SETTING

All sensor settings can be configured, in individual or group basis, by SRP-281 OS-NET Remote Programmer. Following table highlights the setting items and options available with ON-LRD-609SA. 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, DSC, VSC, OSB, OFF		OSLATO
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%
DAY/NIGHT SYNC	Setting the master OS-NET sensor in charge of sensing the ambient light level and reporting the day/night status to other sensors of the group.	PRIMARY/SECONDARY/DISABLED		DISABLED
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	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.
RAMP UP	Speed of lighting output increase.	INSTANT/SOFT/SLOW		INSTANT
FADE DOWN	Speed of lighting output decrease.	INSTANT/SOFT/SLOW		SOFT
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		2.5 hours
VM-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
LED INDICATOR	Enable or disable the LED indicator of the sensor.	ENABLED/DISABLED		ENABLED
DAY O'RIDE	Enable/disable daylight override control. Sensor will shut off the light when ambient lux exceeds the override level set below. Only available if AMBIENT LUX is enabled.	ENABLED/DISABLED		DISABLED
O'RIDE LEVEL	The ambient lux level to enable daylight override. Only available if DAY O'RIDE is enabled.	HIGH(~1.8X)/NORMAL(~1.5X)/LOW(~1.3X)		NORMAL
MIN. DIM	The lowest dim level applicable on the sensor.	12/15%/DISABLED		DISABLED

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 sensor detects occupant's motion.	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.	The device is set with daylight sensing control. (DSVM or DSC)	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.	

CONTROL SCHEME

presence of occupant, and turned off after the delay time elapsed. NOTE: This scheme can be used with dimmable or non-dimmable lighting, but not for HID lighting. This is an occupancy sensing control scheme can be applied in areas that require 24-hour lighting. When space is vacant, the light will be maintained at Low Dim level. Whenever space is occupied, lighting output will be increased to High Dim level or continuously regulated to maintain within the pre-set range by SmartDIM control. NOTE: Do NOT use this scheme to control non-dimmable lighting. OSLA This is an occupancy sensing control scheme can be applied in spaces that require automatic lighting when the ambient light level is higher than the set threshold, Lighting will be inhibited if the ambient light level is shigher than the set threshold, repardless of occupancy or vacancy. When the ambient light level is lower than the set threshold, the sensor will automatically control the light at Low Dim level. When sensor deed the presence of an occupant, lighting output will be increased to the High Dim level or continuously regulated within the pre-set range by SmartDIM control. After the delay time elapsed, lighting output will be reduced to Low Dim level or shut off it the ambient light level is higher than the set threshold. OSLATO This is an occupancy sensing control scheme can be applied in spaces that require maintaining Low Dim lighting for a period of the orbits shutting off. Lighting will be inhibited if the ambient light level is higher than the set threshold, regardless of occupant, lighting output will be increased they be sensor of occupant, lighting output will be increased High Dim level or continuously regulated to maintain overall lighting level will be increased High Dim level or continuously regulated to maintain overall lighting level will be increased they be sensor will be reduced to Low Dim level for a period of TIME OFF delay before shut the sensor will be reduced to Low Dim level for a period of TIME OFF delay before shut	Schomo	Description
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