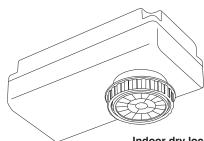


# ON-MRD-210S

SmartDALI OS-NET Sensor

# **INSTALLATION INSTRUCTIONS**

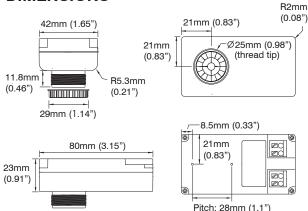


Indoor dry location use only
Utilisation a L'interieur Uniquement

# 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

# **DIMENSIONS**



#### **A** WARNING & CAUTION

- Risk of Electric Shock Disconnect power supply before servicing.
- Use AWG 16-20 solid conductor wires Strip length 8-9 mm / 0.31-0.35 in.
- Cycling the power to the sensors will cause failure over time.

#### **OVERVIEW**

The ON-MRD-210S 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.

The sensor not only controls the connected lighting in the programmed mode independently when it detects the presence of an occupant/vehicle or change of ambient light level, but also acts as a network node to broadcast the OS-NET command for group lighting activation wirelessly. All network setup, grouping and control settings; including sensing control scheme, delay times, ambient light level threshold, ramp up/fade down speed, sensitivity, burn-in duration...etc. can be easily and intuitively configured via a 2-way handheld remote programmer from the floor.

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-MRD-210S, 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.

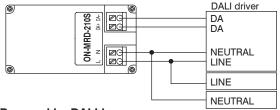
#### **SPECIFICATIONS**

Power supply	230-240 VAC or DALI bus power
Power consumption	<0.5W @AC230-240V or <60 mA with DALI bus
Infrared sensor	Omni-directional pyroelectric
Photo sensor	Digital ambient light sensor
DALI bus power	60 mA max.
Control protocol	DALI Broadcast
Wireless protocol	Modified Zigbee Light Link (ZLL)
Radio frequency	2405~2480MHz
Radio channel	16
Radio range	*5 m (16 ft) @ indoor only
Radio output power	7.58dBm
Detectable speed	0.15 ~ 3 m/sec. (0.5~10 ft./sec.)
Mounting height	2.4 ~ 6 m (8 ~ 20 ft)
Op. humidity	Max. 95% RH
Op. temperature	-40°C~70°C (-40°F~158°F)
Dimensions	80x42x34.8mm (3.15"x1.65"x1.37")

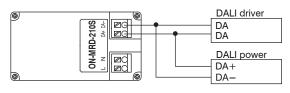
\*Actual radio range may differ depending on environmental conditions.

# **WIRING DIAGRAM**

#### Powered by line voltage



#### Powered by DALI bus



### **APPLICATION NOTES**

- Actual radio range may differ depending on environmental conditions. Always do a site survey to understand existing Wi-Fi usage.
- 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.
- 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.
- 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.
- 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.
- 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.

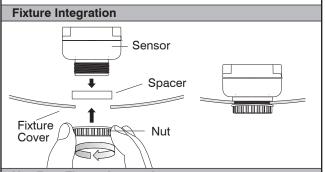
# Mounting Height Minor Motion Toward Across

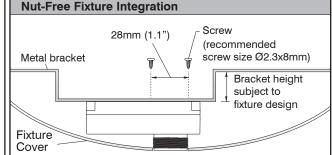
Mounting He	ight	2.4 m (8 ft)	3.0 m (10 ft)	3.6 m (12 ft)	6.0 m (20 ft)
Coverage	M	1.0 m (3 ft)	2.0 m (7 ft)	3.0 m (10 ft)	
Diameter	T	3.0 m (10 ft)	4.0 m (13 ft)	5.0 m (16 ft)	6.0 m (20 ft)
	A	5.0 m (16 ft)	6.0 m (20 ft)	7.0 m (23 ft)	9.0 m (30 ft)

**NOTE**: High ambient temperature (above 28°C/82°F) could reduce the coverage of PIR sensor. If ambient temperature at the covered area are expected to be high sometimes, consider adding more sensors or reduce the mounting height, if possible.

#### **MOUNTING**













# **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-MRD-210S. For detailed setting operation, please refer to the OS-NET Programming Guide available for download from <a href="https://www.irtec.com">www.irtec.com</a>.



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
DALI Power	Enable/disable the sensor to provide DALI bus power.  NOTE: If total DALI bus power will exceed 250mA after adding the sensor powered by line voltage, please "DISABLE" the DALI POWER.	ENABLED/DISABLED	ENABLED
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**

The ON-MRD-210S series can be programmed to control the connected lighting in one of the schemes as below.

Scheme ON/OFF	Description
	This is a typical <b>occupancy sensing control</b> scheme.
	Lighting will be inhibited when the ambient light level is higher than the set threshold, regardless of occupancy or vacancy. When
	the ambient light level is lower than the set threshold, the controlled light will be automatically turned on once the sensor detects the
	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.
oso	This is an <b>occupancy sensing control</b> scheme can be applied in areas that require 24-hour lighting. When space is vacant, the lights
,00	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 <b>non-dimmable</b> lighting.
OSLA	This is an <b>occupancy sensing control</b> scheme can be applied in spaces that require automatic lighting when the ambient light level is
JOLA	lower than the set threshold.
	Lighting will be inhibited if the ambient light level is higher than the set threshold, regardless 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 detects
	, , ,
	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 if the ambient light is
	higher than the set threshold.
	NOTE: Do NOT use this scheme to control non-dimmable lighting.
OSLATO	This is an occupancy sensing control scheme can be applied in spaces that require maintaining Low Dim lighting for a period of time
	before shutting off.
	Lighting will be inhibited if the ambient light level is higher than the set threshold, regardless of occupancy or vacancy. When the
	ambient light level is lower than the set threshold, and any sensor detects the presence of occupant, lighting output will be increased t
	High Dim level or continuously regulated to maintain overall lighting level within the pre-set range by SmartDIM control. After the delay
	time elapsed, lighting output will be reduced to Low Dim level for a period of TIME OFF delay before shut off.
	NOTE: This scheme requires dimmable lighting to enable dimming control. If lighting is non-dimmable, there will be no dim control
	and the delay time will be extended with the TIME OFF (TO) delay.
DSVM	This is a daylight sensing control scheme can be applied in spaces that require automatically dimming the lighting output to a low
	level between a certain time before and after virtual midnight.
	Lighting will be inhibited if the ambient light level is higher than the set threshold. When the ambient light level is lower than the set
	threshold, the sensor will turn the light to High Dim level or continuously regulate the output to maintain overall lighting level within the
	pre-set range by SmartDIM control. Lighting output will be reduced to Low Dim level from a certain time before virtual midnight to a
	certain time after
	certain time after.  NOTE: This scheme requires <b>dimmable</b> lighting to enable dimming control. If lighting is <b>non-dimmable</b> , all lights will remain on
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)SC	<b>NOTE:</b> This scheme requires <b>dimmable</b> lighting to enable dimming control. If lighting is <b>non-dimmable</b> , all lights will remain on whenever ambient light level is lower than the set threshold.
osc	NOTE: This scheme requires dimmable lighting to enable dimming control. If lighting is non-dimmable, all lights will remain on whenever ambient light level is lower than the set threshold.  This is a daylight sensing control scheme can be applied in spaces that require automatic lighting whenever the ambient light is lower.
OSC	NOTE: This scheme requires dimmable lighting to enable dimming control. If lighting is non-dimmable, all lights will remain on whenever ambient light level is lower than the set threshold.  This is a daylight sensing control scheme can be applied in spaces that require automatic lighting whenever the ambient light is lower than the set threshold.
DSC	NOTE: This scheme requires dimmable lighting to enable dimming control. If lighting is non-dimmable, all lights will remain on whenever ambient light level is lower than the set threshold.  This is a daylight sensing control scheme can be applied in spaces that require automatic lighting whenever the ambient light is lowe than the set threshold.  The sensor will automatically turn on the light to High Dim level or continuously regulate the output to maintain overall lighting level
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