2023

GRYDLIGHT RECEIVER

TECHNICAL SPECIFICATION

Revision History

Sl #	Change Description	Version	Date
1	Initial Draft	1.0	11-07-2020
2	Formatted to new format	1.1	13-07-2023

Table of Contents

Overview

GrydLight Wireless Receivers are wired powered 'receiver' that receive occupancy/vacancy information from Wireless PIR sensors and transmits them to controller. The wireless receivers can receive data from 15 wireless PIR sensors. The receivers are Wired into the controller over GS Link (GrydSense Proprietary protocol). Up to 8 receivers could be connected on every GS Link of the controller making it a total of 16 receivers per controller.

Features

- Based on latest secure BLE Mesh wireless Technology
- Simple and secured single button push commissioning.
- Up to 25 meters indoor range
- Configurable from anywhere via cloud interface
- Multiple ceiling-mount options available

Power

- 12VDC; Powered by GS Link of the controller. – No additional power line required.

Environment

- Ambient Temperature Operating Range: 0ºC to 50ºC
- Relative Humidity: less than 90% non-condensing
- For indoor use only

Compliance

- CE Certified
- RoHS Compliant
- IP rating - IP22

Models Available

- GRYD-R- WH ⟶ Colour Code

Available Colour Codes

- WH – White
- BL – Black
- PW – Perl White

Installation Overview

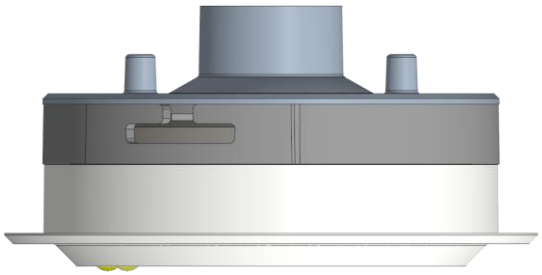
Receiver setup is available as a service by GrydLight.

Receiver Placement

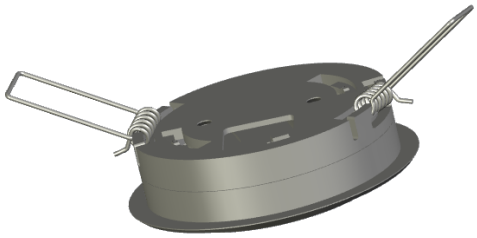
The receiver should be placed in the centre of the workspace where sensors are installed. The receiver should not be place above the ceiling or near metal HVAC ducts. The receiver should be installed facing the work area (like the way PIR sensors are installed).

Mounting Options

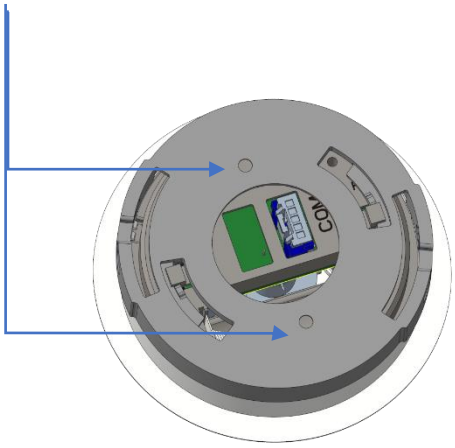
Mounting Option 1 - Ceiling drop with Conduit



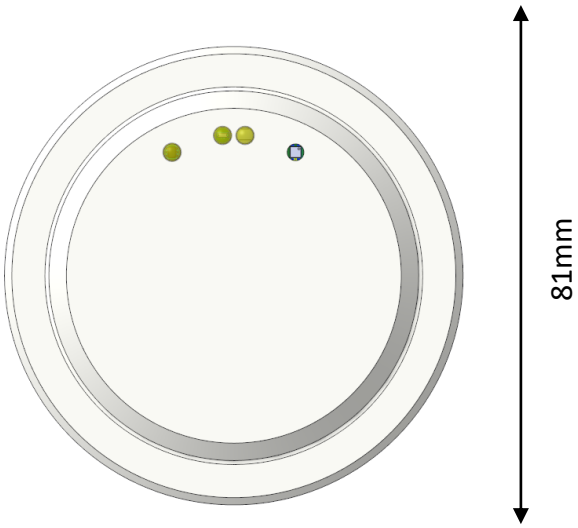
Mounting Option 2 - with Ceiling mount Springs

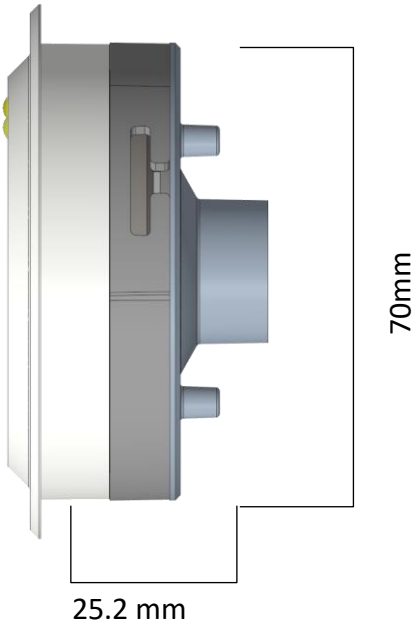


Mounting Option 3 - Ceiling mount with screws

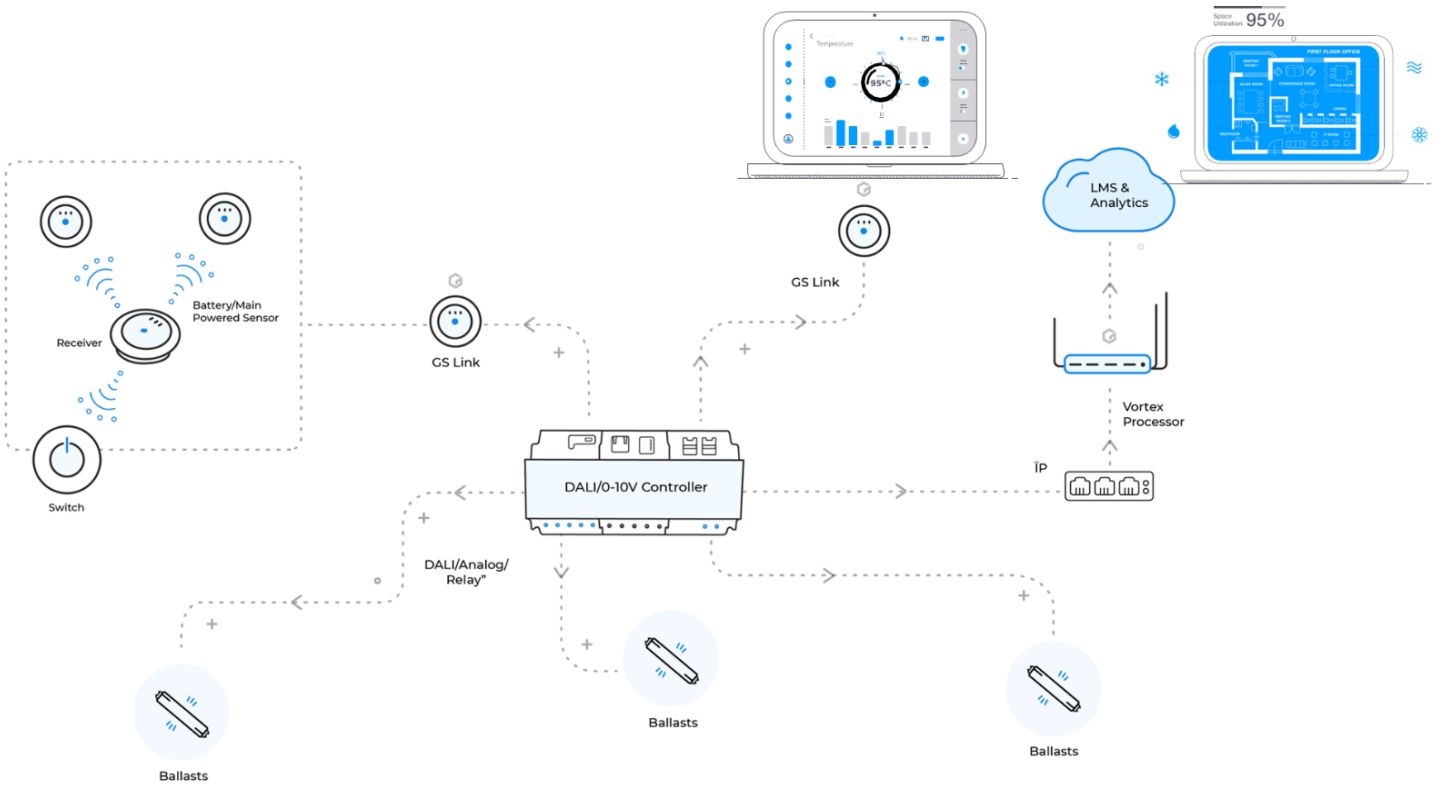


Dimensions





System Diagram



LED Indications

The product has two LED (Red and Greed) indicating various Lighting states of the product and the functions the sensors is performing. The following table summarises the system and LED state,

LED	**Description**
Red led is On and Green led blinks.	Receiver is in Un-commission mode (Not registered to controller)
Red led off and Green led blinks.	Receiver is in commission mode (Registering itself and paired sensors to controller)
Red led blinks and Green led is Off.	Receiver is in unpaired mode (Registered with controller but no sensors paired)
Red led and Green led blinks alternatively	Receiver enters to pairing mode (Receiver accepts the sensors to pair in this mode)
Red led blinks for every 8 seconds and Green led is Off.	Receiver is in normal mode. (Paired to sensors and reporting to controller)
Red led and Green led will On for 3 seconds	Receiver restarted.
Red led and Green led blinks at the same time	Receiver is restarting or Factory resetting.

Caution Statements

- Any changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate this equipment.
- This equipment should be installed and operated with a minimum distance of 20 cm between the radiator and your body.