

# PIR20-WH-EZ40

## EZ-Connect™ PIR and Daylight Sensor, 20ft



The PIR20-WH-EZ40 is a Plug & Play Passive Infrared and Daylight Sensor suitable for up to 20' Mounting Heights.

It provides automatic On/Off/Dim control based on motion and/or daylight levels. This sensor detects motion by receiving infrared radiation (heat) from people, animals, or objects within its field of view. Rated for wet and cold locations, it can be field installed in fixtures equipped with an EZ-Connect™ receptacle with Snap-in System. Sensitivity, timers, and light levels can be adjusted with a remote programmer (SEN-PROG), sold separately.

### TECHNICAL SPECIFICATIONS¹

- **Construction:** White Polycarbonate.
- **Sensing Technology:** Passive Infrared (PIR).
- **Connection Method:** EZ40 (Compatible with EZ-Connect™ Receptacles with Snap-in System).
- **Input Voltage:** 10-14V DC.
- **Current Consumption:** >50mA.
- **Standby Power:** ≤ 0.5W.
- **Control Output:** 0-10V, 25mA.
- **Operating Temperature Range:** -20°C to +60°C (-4°F to +140°F).
- **Max Mounting Height:** 20ft (6m).
- **Max Sensor Range:** 27ft (8m) radius.

### LISTINGS

- FCC, UL, DLC, RoHS, IP20.

### FEATURES

- EZ-Connect™: installs in seconds without tools or wiring.
- PIR Detection with 360° Coverage Pattern, best suited for indoor or outdoor areas with a clear line of sight.
- Integrated Daylight Sensor for Daylight Harvesting.
- LED Motion Indicator.
- Suitable for Indoor use.

### CONTROL SETTINGS

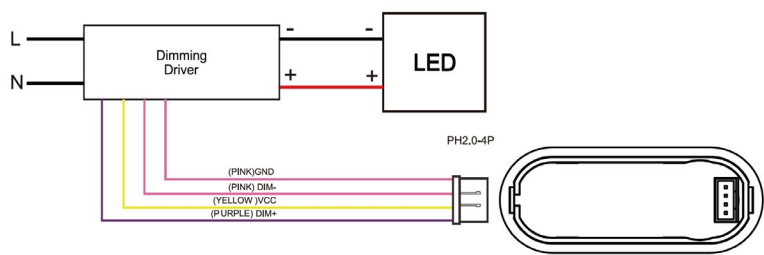
- **Sensitivity (Detection Area):** 25%/50%/75%/100%.
- **Hold Time:** 10s/1min/5min/10min/15min/20min/30min/60min.
- **Daylight Threshold On:** 10lux/30lux/50lux/current value.
- **Daylight Threshold Off:** 100lux/300lux/500lux/disabled.
- **Stand-by Time:** 1min/30min/60min/+∞.
- **Stand-by Dim Level:** 0%/10%/30%/50%.



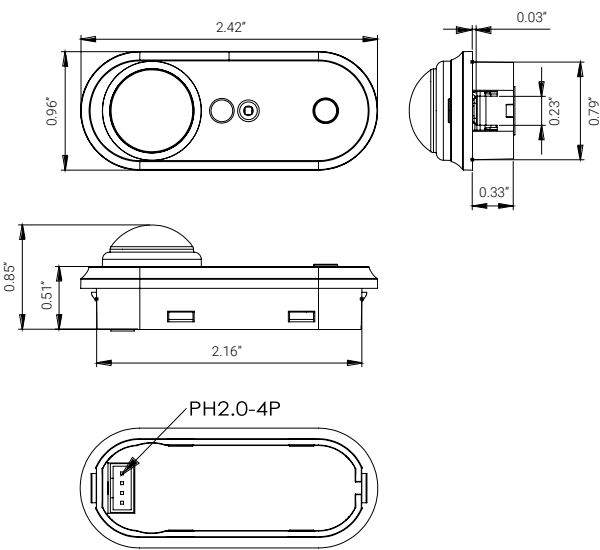
ORDERING

| Part Number   | Description                                                                                                                                                                                                              |
|---------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| PIR20-WH-EZ40 | PIR Occupancy and Daylight Sensor, White Color, EZ-Connect™ Snap-in System, Plug & Play, On/Off/Dim, 20' Max Mounting Height, IP20. Field installed. Sensor can be re-programmed with remote SEN-PROG (sold separately). |
| SEN-PROG      | Infrared Remote Programmer. Required to change default settings and modes of operation.                                                                                                                                  |

CONNECTION DIAGRAM

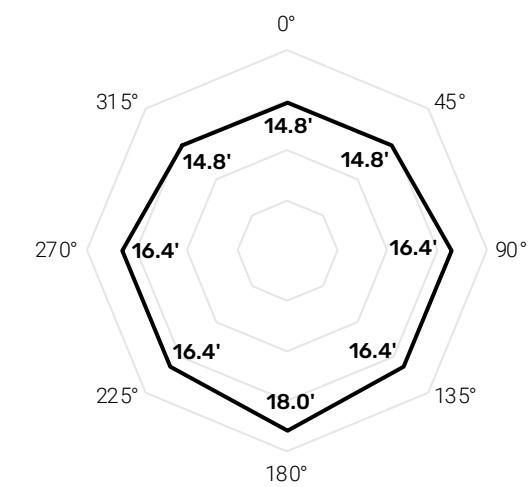


DIMENSIONS & DRAWINGS

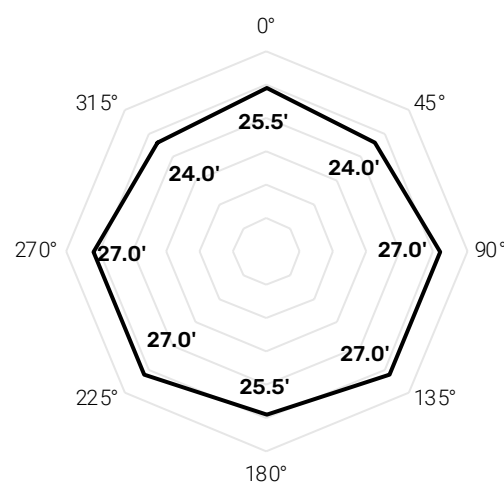


SENSOR COVERAGE

Detection range radius at 20ft mounting height  
(NEMA standard test, 9-grid)



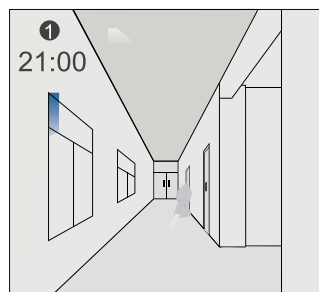
Detection range radius at 20ft mounting height  
(cross-motion, two-step test)



1. The performance of sensors and lenses is influenced by various factors beyond Linmore's control, including but not limited to environmental conditions, user settings, and proper maintenance. While we provide detailed specifications and guidelines to help optimize performance, we cannot guarantee or be held liable for the performance of sensors or lenses under any particular circumstance(s). Customers are advised to test the products in their specific application environments to ensure suitability for their intended use and are responsible for all sensor and lens selections.

### On/Off/Dim (Default Mode)

Enable the smart daylight sensor functionality by pushing  when the remote programmer is in settings mode.

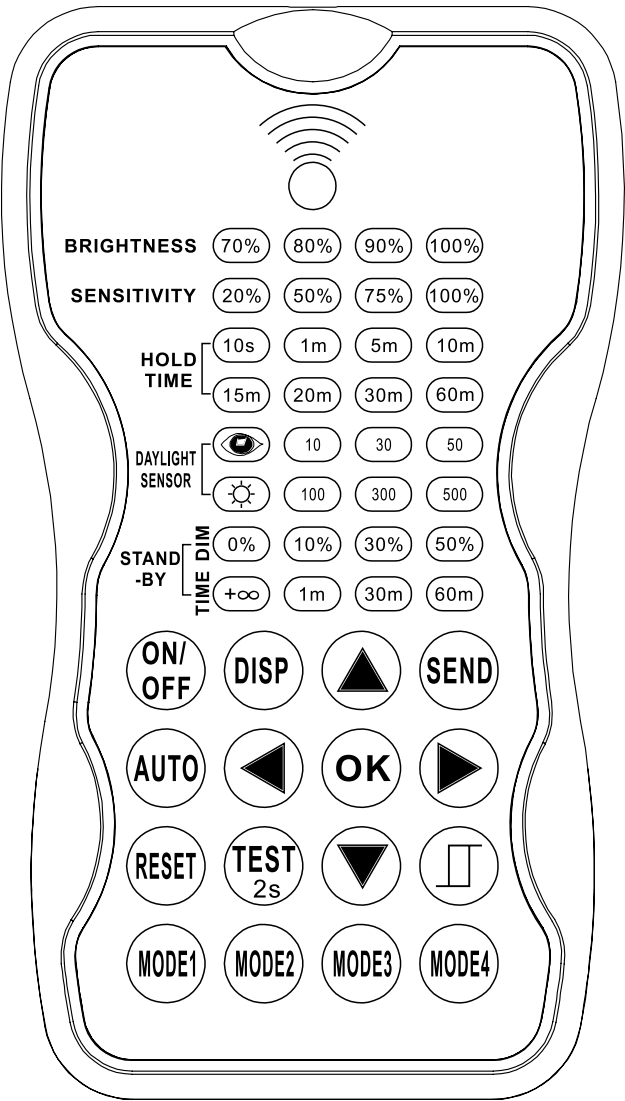


Settings for this example:

- 1**  $\rightleftharpoons$  **3** goes in cycle  
at night ...
- 100% on when movement  
detected, and dims to 10%  
in long absence.

# INFRARED REMOTE PROGRAMMER

The Infrared Remote Programmer (SEN-PROG) is required to change default settings and modes of operation.



## Specifications

|                 |                              |
|-----------------|------------------------------|
| Power Supply    | 2 x AAA 1.5V batteries.      |
| Upload Range    | Up to 50 ft.                 |
| Op. Temperature | 0°C to 50°C (32°F to 122°F). |

## LED Indicators

|                 |                                                                                                                        |
|-----------------|------------------------------------------------------------------------------------------------------------------------|
| Brightness      | Light output during occupancy.                                                                                         |
| Sensitivity     | Detection area of the sensor.                                                                                          |
| Hold Time       | Time the sensor waits to turn off or dim the light after the area is vacated.                                          |
| Daylight Sensor | Daylight sensor status and daylight threshold values in lux.                                                           |
|                 | <b>Daylight harvesting function.</b><br>Selects the current surrounding lux value as the daylight threshold.           |
|                 | <b>Daylight sensor disabled.</b><br>All motion detected turns on the light, no matter how bright the natural light is. |
| Stand-by Dim    | Light output during vacancy.                                                                                           |
| Stand-by Time   | Time the sensor keeps the light at stand-by dim level after the hold time has elapsed.                                 |

## Scene Modes

The remote comes with four pre-programmed modes. These can be used as is, or adjusted with different parameters and saved over an existing mode.

| Scene  | Application | Brightness | Sensitivity | Hold Time | Stand-by Dim | Stand-by Time | Daylight Sensor |
|--------|-------------|------------|-------------|-----------|--------------|---------------|-----------------|
| MODE 1 | Indoor      | 100%       | 75%         | 5min      | 30%          | 30min         | Disabled        |
| MODE 2 | Indoor      | 100%       | 75%         | 1min      | 30%          | +∞            | Disabled        |
| MODE 3 | Indoor      | 100%       | 75%         | 5min      | 30%          | 30min         | 30lux           |
| MODE 4 | Outdoor     | 100%       | 75%         | 1min      | 30%          | +∞            | 30lux/300lux    |

Updated: 2026/10/07