

GCL13R0 MS, Motion Sensor — INSTALLATION INSTRUCTIONS

CAUTION: BEFORE CONNECTING THE LUMINAIRE TO A POWER SUPPLY, MAKE SURE THE POWER IS SWITCHED OFF.

Optional Motion Sensor

DETAILED ILLUSTRATION

GENERAL:

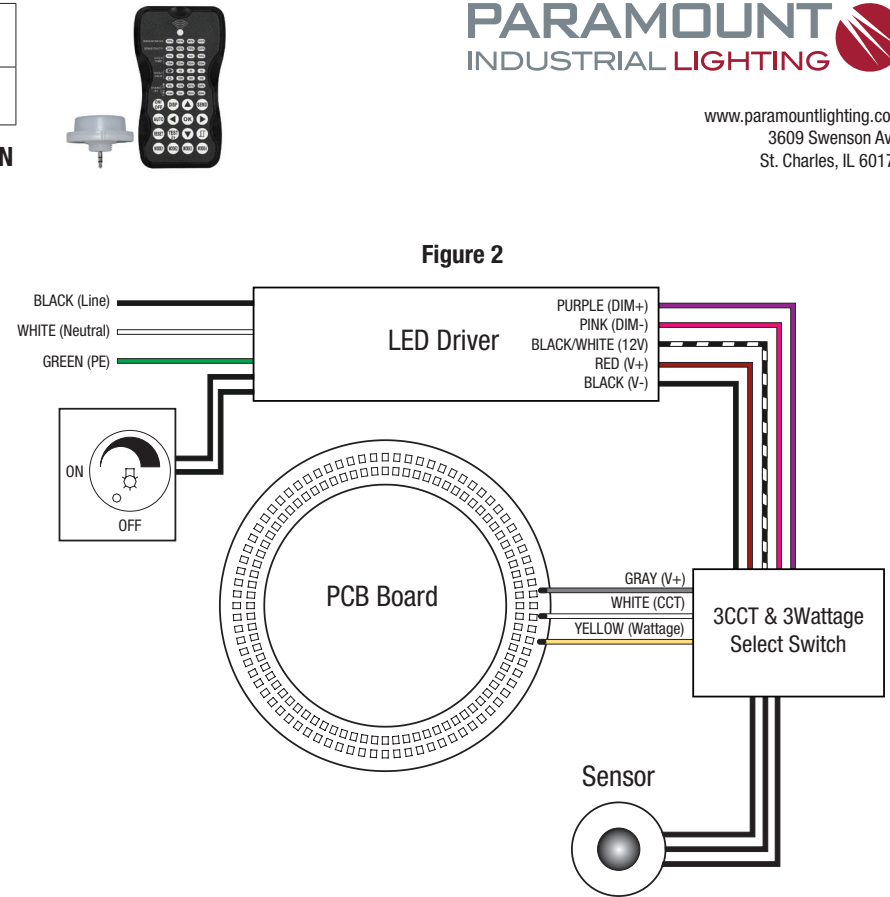
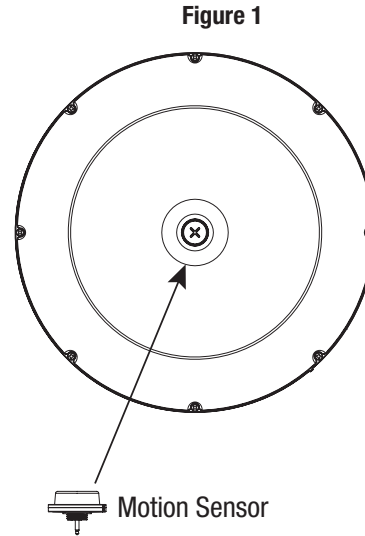
1. Before starting the installation, make sure all electricity has been turned off and electrical breaker has been locked out and tagged out.
2. To ensure the success of the installation, be sure to read these instructions and review the diagrams thoroughly before beginning.
3. All electrical connections must be in accordance with local codes, ordinances, or the National Electrical Code.
4. These luminaires are intended to be mounted to a J-Box directly supported by the building structure.
5. All luminaires to be installed by a qualified electrician.

NOTE: The important safeguards and instructions appearing in this manual are not meant to cover all possible conditions and situations that may occur.

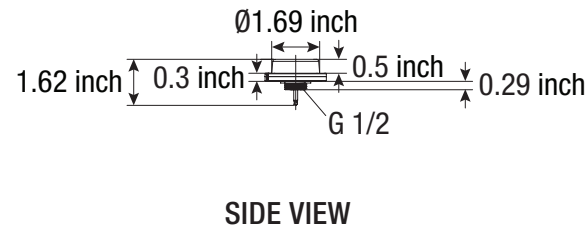
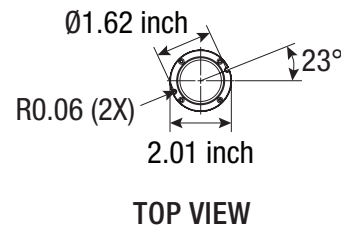
INSTALLATION:

1. The Motion Sensor installs directly inside the bottom of a GCL13R0 luminaire (**Figure 1**).
2. Motion Sensor wiring diagram (**Figure 2**).

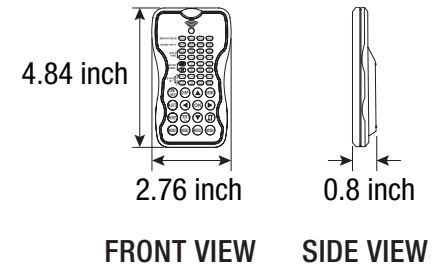
IMPORTANT: Do not disassemble, modify, or drop the LED canopy light.



Motion Sensor



Remote Control



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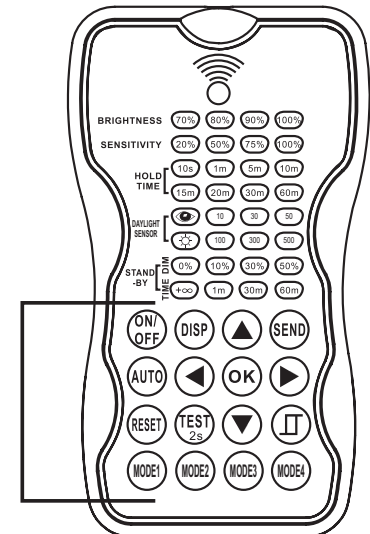
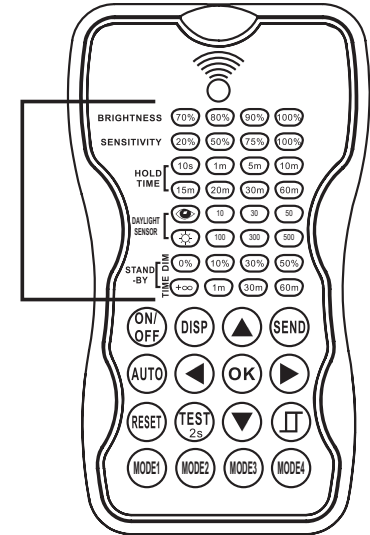
Remote Control

DETAILED ILLUSTRATION

LED Indicators			
LED	LED Description	Button	Remote Button Description
Brightness	High end trim turning function — Sets the output levels of connected light during occupancy.		Selects the current surrounding LUX value as the daylight threshold. This feature enables the luminaire to function well in any real application circumstances.
Sensitivity	Sets the occupancy sensing sensitivity of the sensor.		The daylight sensor turns off the luminaire when motion is not detected and turns on the luminaire when motion is detected.
Hold Time	Sets the sensor time to turn off (if you choose stand-by, level is 0) or dim the light to a lower level when the area is vacant.	STAND-BY DIM	Sets the output level of the light when an area is vacant. The sensor will regulate the light output at the set level. Setting the Stand-by DIM level at 0 the luminaire turns off when the area is vacant.
Daylight Sensor	Selects natural light levels of the sensor.	STAND-BY TIME	Time the sensor will hold a low dim level after the HOLD TIME has elapsed.

Button Operations		
Button	Button Description	Button
ON/OFF	This button turns light to permanent ON or permanent OFF and disables the sensor (Must press the AUTO Button to quit this mode).	
DISPLAY	Display the LED Indicators current/latest setting parameters (LED Indicators will go on and show the setting parameters).	
RESET	Press the Reset button and all settings go back to the sensor dip switch.	
UP/DOWN ARROWS	Navigate UP or DOWN to choose LED Indicator parameters. When you enter the setting condition, the remote control LED parameters will flash for selection.	
OK	This button confirms the remote control selected parameters.	
SEND	Press the SEND button to upload the current parameters to the sensor. The Sensor LED light turns ON/OFF to confirm connection.	
MODE 1, 2, 3, 4	Select up to 4 Scene Modes with the MODES button. Set or change up to 4 scene parameters modes.	
AUTO	The AUTO button turns on the sensor function and all settings remain the same as the latest status prior to the lights being switched ON/OFF.	
TEST 2s	The TEST 2s button is for testing sensitivity only. Once you choose the sensitivity thresholds, press the TEST 2s button. The sensor goes into test mode (hold time is only 2 seconds) automatically. The stand-by period and daylight sensor are disabled. Press the AUTO button to quite this mode.	
LEFT/RIGHT ARROWS	Navigate LEFT or RIGHT to choose LED Indicator parameters.	
DAYLIGHT SENSOR	The DAYLIGHT SENSOR button opens and closes the daylight sensor. Press the UP or DOWN buttons to enter the setting conditions (the LED Indicator parameters will flash to be selected). Press the DAYLIGHT SENSOR button to open or close the sensor.	

LED Indicators



Button Operations

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Remote Control Settings

The Remote Control contains all available settings and parameters for the Motion Sensor. Allows for the changing of available controls, parameters, and operations for the sensor factory default or current parameters.

CHANGE MULTIPLE SENSOR(S) SETTINGS:

1. Press the **DISP** button and the Remote Control LED Indicators will show the latest set parameters.

NOTE: If you push the **ON/OFF** button beforehand, you must push the **AUTO** button to unlock the sensor.

2. Press **UP** or **DOWN** buttons to enter the setting condition. The parameter LED Indicators on the remote control will flash, indicating a selection must be made. Navigate to the desired setting by pressing **UP**, **DOWN**, **LEFT**, or **RIGHT** to select the new parameters.

3. Press the **OK** button to confirm and save settings.

4. Aim and press the target sensor to upload new parameter. The Motion Sensor LED light will flash **ON/OFF**.

NOTE: Settings work by pushing the **UP** or **DOWN** buttons, which enter the setting condition.

NOTE: The LED Indicator light which connects to the Motion Sensor, will flash **ON/OFF** to confirm the new parameters have been received.

NOTE: If you press the **DISP** button, the Remote Control LED Indicators will show the latest set parameters.

CHANGE MULTIPLE PHOTOCELL SENSOR(S) SETTINGS:

1. Press the **DISP** button and the Remote Control LED Indicators will show the latest set parameters.
2. Press **UP** or **DOWN** buttons to enter the setting condition. The parameter LED Indicators on the remote control will flash indicating you need to make a selection.
3. Press a **DAYLIGHT SENSOR** button and the Remote Control LED Indicators will flash in daylight sensor settings. Select **DAYLIGHT BRIGHTNESS** 10, 30, or 50 as a setpoint to automatically turn the light. Select **DAYLIGHT SENSITIVITY** 100, 300, or 500 as a setpoint to automatically turn off the light.

4. Press the OK button to confirm and save settings.

5. Aim and press the target sensor to upload new parameter. The Motion Sensor LED light will flash ON/OFF.

NOTE: The DAYLIGHT SENSOR button is disabled by default

1. Open or close the daylight sensor by pushing the **DAYLIGHT SENSOR** button, when the Remote Control is in setting condition.
2. When the daylight sensor is open, 2 Remote Control LED Indicator lights flash in the **DAYLIGHT SENSOR** section. Select **DAYLIGHT BRIGHTNESS** 10, 30, or 50 as a setpoint to automatically turn ON the light. Select **DAYLIGHT SENSITIVITY** 100, 300, or 500 as setpoint to automatically turn OFF the light. When the daylight sensor is closed, 1 Remote Control LED Indicator in the **DAYLIGHT SENSOR** section will flash indicating a daylight sensor threshold selection must be made.

DETAILED ILLUSTRATION

3. When the daylight sensor is open, the **STAND-BY TIME DIM** section lights up.
4. The daylight sensor works independently from the normal outdoor daylight sensor switch.
5. See **Daylight Sensor Function**.

CORRIDOR FUNCTION:

This function enables tri-level control, where areas may require a light change notice before it is switched off. Offered in 3 levels of light.

1. **100%** — Dimmed light (natural light is insufficient)
2. **OFF** — 2 periods of selectable waiting time
3. Motion **HOLD-TIME** and **STAND-BY** period — Selectable daylight threshold and freedom of detection area

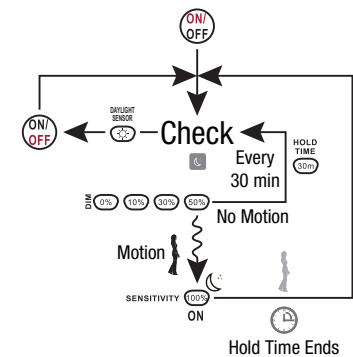
NOTES:

1. With sufficient natural light, the light does not switch on when motion is detected.
2. With insufficient natural light, the sensor automatically switches on when motion is detected.
3. After **HOLD-TIME**, the light dims to **STAND-BY** level if the surrounding natural light is below the daylight threshold.
4. Light switches off automatically after the **STAND-BY** period elapses.

DAYLIGHT SENSOR FUNCTION:

This function allows you to select various light functions.

1. Light switches on at **100%** when movement is detected
2. Light dims to **STAND-BY** level after the HOLD-TIME
3. Light remains in **TIME DIM** level at night
4. Light cycles at night. **100%** on when motion is detected and dims to **10%** in long absences.
5. When the natural light level exceeds setpoint of light **OFF**, the light will turn off even if the space is occupied.
6. Light automatically turns on at **10%** when natural light is insufficient (no motion detected).



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DETAILED ILLUSTRATION

Remote Control Settings (cont.)

CORRIDOR FUNCTION VS DAYLIGHT SENSOR FUNCTION:

1. In Corridor Function, to turn on the light, the light **MUST** be natural light level lower daylight sensor setting and Occupancy. In Daylight Sensor Function, turn on the light by natural light level lower daylight setpoint to light on even if vacancy.
2. In Corridor Function, turn off the light by stand-by time finish if vacancy. In Daylight Sensor Function, turn off the light by natural light level higher than daylight setpoint to light off even if occupancy.
3. In Daylight Sensor Function, natural light level lighter/lower than daylight setpoint to light off/on **MUST** keep at least 1 minute, that will turn off/on the light automatically.

ABOUT REST & MODE (1, 2, 3, 4):

MODE — The remote control comes with 4 Scene MODES which are not default. You may make desired parameters and save as the new **MODE (1,2,3,4)** to configure the installed sensors.

Scene Modes (1, 2, 3, 4)							
Application	Scene Options	Brightness	Detection Area	Hold Time	Stand-By Time	Stand-By Dim Level	Daylight Sensor
Indoor	MODE 1	100%	75%	5 min	30 min	30%	
Indoor	MODE 2	100%	75%	1 min		30%	
Indoor	MODE 3	100%	75%	5 min	30 min	30%	30 LUX
Outdoor	MODE 4	100%	75%	1 min		30%	(30 LUX/300 LUX)

RESET — All settings go back to settings of **DIP Switch** in sensor.

UPLOAD:

The upload function allows you to configure the sensor with all parameters in one operation. You may select **CURRENT SETTING** parameters or the **MODE** for uploading. **Current Setting** parameters or the **MODE** are displayed in Remote control.

Upload the Current Parameters to Sensor(s) & Duplicate the Sensor Parameters from One to Another:

1. Press the **DIP** button or press **MODE1, MODE2, MODE3, MODE4** and all parameters will be displayed in the remote control.

NOTE: Check all parameters and make sure they are correct, if not, change them.

2. Aim the Motion Sensor and press the **SEND** button, the light that connects to the sensor will turn **ON/OFF** to confirm.

NOTE: If other Motion Sensors need the same parameters, just aim the remote control at the Motion Sensor and press the **SEND** button.