GE Lighting Controls

GE Aware™
Passive Infrared Ceiling Low Voltage Occupancy Sensor
CIR-xx-360-D

Overview
GE Passive Infrared ceiling sensors can be used individually or in combination to provide lighting control and integration with HVAC control throughout a building.

PIR Technology
The sensor’s segmented lens divides the field of view into sensor zones, and detects the changes in temperature that are created when a person, or part of a person as small as a hand, passes into or out of a sensor zone.

The lights will remain ON as long as the sensor detects movement through the detector zones. When no motion is detected, lights are switched OFF following a preset time delay.

The GE Passive Infrared ceiling sensor has an ambient light level sensor. Using the DIP Switches located on the back of the unit, the user can select the ambient light level above which artificial light is not required. If ambient light is above this level when motion is detected, the sensor will keep the lights OFF until the ambient light falls below this level. If this level is reached while the lights are ON, the sensor will switch the lights OFF.

The technology contained within sensor continuously self-adjusts sensitivity and time-delay automatically and immediately in response to occupant behavior. There is no need for time consuming manual adjustments or to “learn” behavior patterns over extensive periods of time.

Specifications

Technology: Passive Infrared (PIR)

Electrical Ratings:
Input:
• 10-30VDC from GE Switchpack or GE System. Maximum current needed is 25mA per sensor.
Output:
• Open collector output to switch up to ten GE Switchpacks.
• Isolated Form C Relay
• Isolated Form C Relay Ratings: 1A 30VDC/30VAC

Operating Environment:
• Temperature: 60°F – 80°F (15°C – 26°C)
• Relative Humidity: up to 95% non-condensing
• For indoor use only
Time Delays: Self-Adjusting from 10 min. to 30 min.

Housing:
• Medium impact injection molded housing. ABS resin complies with UL 94V0. Paintable off-white.

Size:
• 4.7” diameter, 1.5” deep (119.4mm x 38.1mm)

Daylight sensor:
• 10 fc - 150 fc user selectable

LED Indicators: Red LED indicates PIR detection.

Operating Modes:
Automatic ON/Automatic OFF
Manual ON/Automatic OFF

<table>
<thead>
<tr>
<th>Product Code</th>
<th>Description</th>
<th>Color</th>
<th>Coverage</th>
<th>Field of View</th>
</tr>
</thead>
<tbody>
<tr>
<td>63270</td>
<td>CIR-05-360-D</td>
<td>White</td>
<td>Up to 450 sq. ft.</td>
<td>360°</td>
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<tr>
<td>63272</td>
<td>CIR-15-360-D</td>
<td>White</td>
<td>Up to 1200 sq. ft.</td>
<td>360°</td>
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</tbody>
</table>
Wiring Diagram (consult instruction sheet for other wiring options)

**WARNING**
- Risk of electric shock
- Turn power off before connecting
- Install per National Electric Code

* USE ONLY ONE MANUAL OFF SWITCH OPTION

**NOTE:** WHEN USING THE PHOTOCELL FEATURE, CONNECT THE YELLOW WIRE OF THE SENSOR TO THE BLUE WIRE OF THE SWITCH PACK. DO NOT USE THE SENSORS BLUE WIRE. CAP THE WIRE THAT IS NOT BEING USED.

**USE BLACK LEAD FOR 120V AC. USE ORANGE LEAD FOR 277V AC. CAP UNUSED LEAD.**

**USE ONLY ONE MANUAL OFF SWITCH OPTION**

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**Coverage**

**CIR-05-360-D**

**CIR-15-360-D**

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**Settings**

<table>
<thead>
<tr>
<th>Position</th>
<th>On Mode</th>
<th>Lighting Sweep</th>
<th>Time Delay</th>
<th>Override</th>
<th>Day/Light Logic</th>
<th>Light Level A</th>
<th>Light Level B</th>
<th>Light Level C</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Auto On</td>
<td>Not Enabled</td>
<td>Self Adjusting</td>
<td>Not Enabled</td>
<td>Full Logic</td>
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<td>Not Enabled</td>
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<tr>
<td>2</td>
<td>Manual On</td>
<td>Enabled</td>
<td>30 minutes</td>
<td>Override</td>
<td>Half Logic</td>
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<td>Not Enabled</td>
<td>Not Enabled</td>
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</table>

**Light Level Settings**

<table>
<thead>
<tr>
<th>A</th>
<th>B</th>
<th>C</th>
</tr>
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<tbody>
<tr>
<td>150 fc</td>
<td>↓</td>
<td>↓</td>
</tr>
<tr>
<td>100 fc</td>
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<tr>
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<td>↓</td>
</tr>
<tr>
<td>10 fc</td>
<td>↓</td>
<td>↓</td>
</tr>
<tr>
<td>Not Enabled</td>
<td>↑</td>
<td>↑</td>
</tr>
</tbody>
</table>

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