Overview
The CDT ceiling mounted low voltage occupancy sensor is a Passive Infrared (PIR) and Ultrasonic (US) motion sensing lighting control, used for energy savings and convenience. PIR is used to turn the lights ON and then either or both technologies are used to keep the lights ON. When motion is detected, the blue wire is electronically connected to the red wire, energizing the relay in the switchpack to turn the load on. If vacancy is detected, the blue wire is disconnected from the red, causing the relay to open turning off the load. The red lead is 10-30VDC supply, the black lead is common, and the blue is the relay control.

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.

US Technology
The sensor produces a low intensity, inaudible sound. It detects occupancy from changes in the acoustic waves caused by motion, such as reaching for a telephone, turning a page in a book, walking into a room, turning in a swivel chair, etc. The sensor does not respond to audible sound.

Time Delays:
Self-Adjusting, 15 Second/Test (10 min Auto) Selectable 30 minute lock.

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

Ordering

<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>63264</td>
<td>CDT-05-180-R</td>
<td>White</td>
<td>Up to 1000 sq. ft.</td>
<td>180°</td>
</tr>
<tr>
<td>63268</td>
<td>CDT-20-360-R</td>
<td>White</td>
<td>Up to 2000 sq. ft.</td>
<td>360°</td>
</tr>
</tbody>
</table>
**WARNING**
- Risk of electric shock
- Turn power off before servicing
- Install per National Electric Code

**Coverage**
- Minor
- Major

**Wiring Diagram (consult instruction sheet for other wiring options)**

**CDT-05-180-R**

**CDT-20-360-R**

**Settings**

<table>
<thead>
<tr>
<th>DIP Switch Legend</th>
<th>DEFAULT</th>
<th>Activation</th>
<th>Lighting Sweep</th>
<th>Time Delay</th>
<th>Energy Saver</th>
<th>Not used</th>
<th>Sensitivity</th>
<th>Maintain Lights ON</th>
<th>Override</th>
</tr>
</thead>
<tbody>
<tr>
<td>DIP SWITCH</td>
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<td></td>
<td></td>
<td></td>
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<td></td>
<td>8</td>
</tr>
<tr>
<td>Auto</td>
<td>▼</td>
<td>Disabled</td>
<td>▼ Self-Adjust*</td>
<td>▼ Disabled</td>
<td>▼ Not used</td>
<td>▼ Normal Sensitivity</td>
<td>▼ Either Technology</td>
<td>▼ Enabled</td>
<td>▼</td>
</tr>
<tr>
<td>Manual</td>
<td>▲</td>
<td>Enabled</td>
<td>▲ 30 Minute Lock</td>
<td>▲ Enabled</td>
<td>▲ Low Sensitivity</td>
<td>▲ Both Technologies</td>
<td>▲ Disabled</td>
<td>▲</td>
<td></td>
</tr>
</tbody>
</table>

*Self-Adjusts to 10 min user mode

**NOTE**
- Turning any DIP switch ON/OFF, except DIP switch 3, will reset time delay back to 15 second test mode. Turning DIP switch 6 ON for three seconds and back to OFF will not only reset time delay, but will also reset unit back to factory settings.
- To manually set sensor to 10 minute delay, turn DIP switch 3 ON for one second and back to OFF.