**Sequence of Operation**

When the occupancy sensor in the room senses movement, receptacles will automatically turn on. The switch on the wall will be used to turn the lights on or off regardless of the state of the occupancy sensor. A quick press up or down of the switch will turn the lights on or off. A press and hold up or down will dim the lights up or down. When the room becomes vacant, the lights and receptacles will turn off after a predetermined amount of time (default 15 minutes).

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**Typical Material List**

<table>
<thead>
<tr>
<th>Qty</th>
<th>Part #</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
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<td>Complete Room Controller</td>
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<tr>
<td>1</td>
<td>OWS-DT-120/277</td>
<td>Occupancy/Vacancy Sensor On/Off &amp; Up/Down Dimming</td>
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<tr>
<td>1</td>
<td>ERCCI</td>
<td>Central Command Interface</td>
</tr>
</tbody>
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**Specification:**

1. Lighting control system to be manufactured by Echoflex Solutions Inc.
2. Echoflex lighting control system shall have the ability to be factory pre-linked and pre-configured or programmed on-site using simple tap, smart click or Garbaldi software.
3. Controllers shall be able to function as a stand alone system along with their optional peripheral wireless devices including a wall switch, split controlled receptacle, and occupancy sensor.
4. Controllers shall be able to be networked together to form an integrated building solution.
5. Echoflex ERDRC 0-10V dimming room controller shall be ETL recognized, conforming to UL243 plenum rating and UL908 standards. All system control electronics shall store programming in non-volatile memory. The controller shall be capable of repeating signals and transmitting status.
6. Wall switch occupancy sensor (OWS): The wall switch occupancy sensor shall utilize 120 or 277VAC power. Sensor shall be compatible with occupancy and vacancy modes when used in conjunction with the dimming room controller. Sensor shall provide LED indication for range confirmation. Sensor shall wirelessly communicate with the split controlled receptacle. The wall switch sensor shall be able to manually turn and dim loads on/off and up/down when used with compatible wireless controllers.
7. RF system shall network wirelessly, integration with BMS/Demand Response via the use of gateways and wireless/wired I/O interfaces. Verify and install only those interfaces indicated in the plans.
8. EC shall install Echoflex system as indicated per manufacturer’s final drawings and installation documents in accordance to all local and national codes. Factory onsite start up and training is optional. Echoflex requires 3 weeks advanced notice to schedule onsite start up if requested. Echoflex will provide system verification and adjust programming if required to customer requirements.
9. This drawing represents design concept and intent only. We do not guarantee the information in this document is suitable for your particular application. Nor do we assume any responsibility for your system design, installation or operation. We reserve the right to make changes to the products described or information herein at any time without notice and without any obligation.
10. Specifications subject to change without notice.
11. Telephone factory support is available at no additional cost to the EC or owner.
12. Contact Echoflex Solutions

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**Diagram:**

Echoflex ERNR-AU
- Mounts in a standard single gang box
- Communicates on 902 MHz frequency
- Top half uncontrolled, bottom half controlled
- Arrow light up indicating controlled half
- Unit controls up to 15A of plug load
- Configurable through software or other mechanical means
- Internal range of no less than 90° laterally

Echoflex OWS-DT-120/277
- Communicates on 902 MHz frequency
- Dual Technology, Passive Infrared & Acoustic Interface
- On/Off Switching & Up/Down Dimming
- Range: 10° to 180° (0° range is obstructed and 30° unobstructed)
- Mounts in a standard Single Gang Box

**Typical Office w/o Daylight Harvesting**

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