

OCCUPANCY/VACANCY SENSOR

**LSDUALC2**

Occupancy/Vacancy Sensor, Ceiling Mount, PIR/Acoustic, Auxiliary Relay



**SPECIFICATIONS**

- Operation Voltage:** 12-24 Vac/dc
- Current Draw:** 16mA
- Output:** Logic High Vdc (Occupied Mode)
- Recommended Power Pack:** LR21BPP5
- Dimming Compatibility:** 0-10 Vdc Ballasts or Drivers Compliant with IEC 60929 Annex E.2
- Auxiliary Relay Type:** One (1) SPST
- Auxiliary Relay Contact Ratings:** 1A @ 30 Vac/dc
- Operating Temperature:** 32 to 122°F (0 to 50°C)
- Humidity Range:** 0 to 95% (noncondensing)
- Dimensions:** 4.00" Diameter x 1.25" Height (10.16 x 3.17 cm)
- Time Delay:** 30 sec to 30 min
- Code Compliance:** Sensors can be used to meet ASHRAE 90.1, IECC & Title 24 energy code requirement

**Notes:**

- **Acoustic Detection:** Acoustic detection covers the same area as PIR. A PIR event is required to enable Acoustic detection. Sounds triggering the Acoustic detection will reset the time delay, however, periodic PIR detection is still needed to keep the lights on. Sensor also filters out any non-occupant noise and keeps Acoustic detection active for 15 seconds after time delay.
- **Auxiliary Relay:** By default, relay closes when occupancy is detected. Relay can be configured to open upon detection.
- For installation instructions: [https://www.functionaldevices.com/downloads/bulletins/B3153\\_393330.pdf](https://www.functionaldevices.com/downloads/bulletins/B3153_393330.pdf)

**OCCUPANCY SENSOR APPLICATION**

The LR21BPP5 Power Pack can be used to provide power to the LSDUALC2 and control a lighting load based on the status of the LSDUALC2. The white/red and white/black wires of the LR21BPP5 provide 24Vdc power to the +/-24V wires of the LSDUALC2. When occupancy is detected, the LSDUALC2 will bring the control signal wire to a logic high, switching the lighting load On or Off. See installation instructions for setting modes of operation.

