

ODC Series Dual Zone Controls

Product: ODC Series Dual Relay Occupancy Sensors **Article ID:** 20131202-DRD-O2C

Date: December 2, 2013

Summary: The ODC Series Dual Relay Occupancy Sensors offer 5 unique modes for room controls with dual-relay controls.

Information: The ODC Series Dual Relay Occupancy Sensors have 5 additional modes to meet the following applications:

Mode 3 – Fan Control - Ideal for Bathroom Applications

- Both loads automatically turn ON when occupancy is detected and can be manually turned ON with the Manual Switch.
- Load 2 (fan) will turn OFF 10 minutes after the sensor's time delay expires or 10 minutes after Load 1 (lights) is turned OFF.

Mode 4 – Auto ON/Manual ON

- Load 1 operates as Auto ON and Load 2 as Manual ON.
 - If Load 1 is ON and Load 2 is OFF, the Manual Switch will turn Load 2 ON.
 - If both loads are ON or OFF the Manual Switch will turn both loads ON or OFF.

Mode 5 – Stairwell Control

- This feature balances load controls with alternating relays while taking Daylight Harvesting and natural light into account.
 - Code requirements mandate that one light is on at all times
 - Both loads will automatically turn ON when occupancy is detected
 - Both loads alternate between ON and OFF when the sensor's time delay expires so one load is always ON to save lamp life.
 - While under daylighting control, and if natural light is sufficient, both loads will be turned OFF regardless of the occupied state.
 - The Manual Switch can be used to turn only load OFF at a time.

Mode 6 – Step Dimming – Alternating Daylighting Levels

- Both loads automatically turn ON when occupancy is detected and there is insufficient natural light.
- As natural light **increases above** the daylighting set point, Loads 1 and 2 will alternate between ON and OFF (50%) and will turn OFF (0%) when natural light is sufficient regardless of occupied state.
- As natural light **decreases below** the daylighting set point, Loads 1 and 2 will alternate between OFF and ON (50%) to save lamp life.
- The Manual Switch automatically turns both loads ON.

Mode 7 – Step Dimming – Load 1 Primary - Ideal for Classroom Applications

- Both loads automatically turn ON when occupancy is detected and there is insufficient natural light.

Leviton Mfg. Co., Inc. Lighting Management Systems

20497 SW Teton Avenue, Tualatin, OR 97062 1-800-736-6682 Tech Line: 1-800-959-6004 Fax: 503-404-5594 www.leviton.com/les
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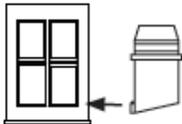
- As natural light increases above the daylight set point, Load 2 will turn OFF first (50%) and Load 1 will turn off second (0%) when natural light is sufficient regardless of the occupied state.
- As natural light decreases below the daylighting set point, Load 1 will turn ON first (50%) and Load 2 will turn ON second.

Applications:

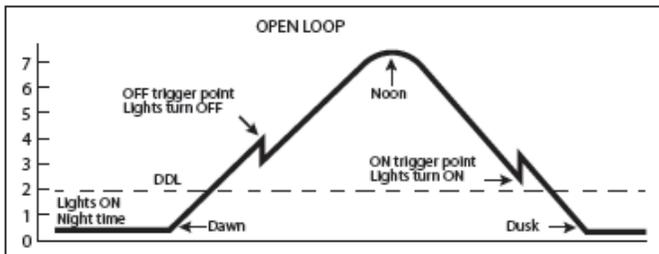
- Dual-circuit classroom or office environment where Manual ON Bi-Level switching or CA Title 24 is required
- Any space using occupancy sensor and/or single or dual zone daylighting
- Bathroom where Relay 2 runs ceiling fan or a garage where Relay 2 runs the garage door
- Open and Closed Loop Applications such as classrooms, libraries and offices

PHOTOCELL OPERATION

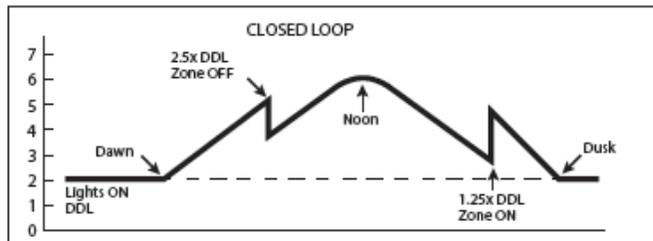
Open Loop - Angled Light Pipe



Note: Long side of angled light pipe must face toward natural light source (window)



Closed Loop - Flat Light Pipe

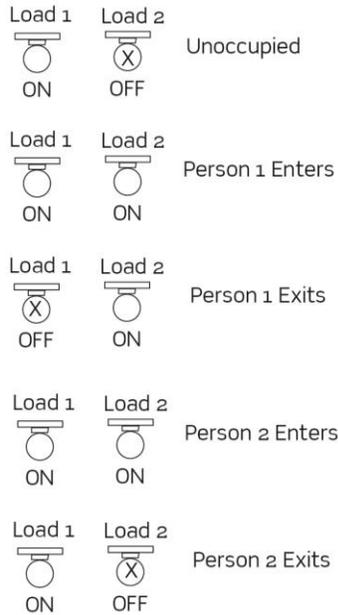


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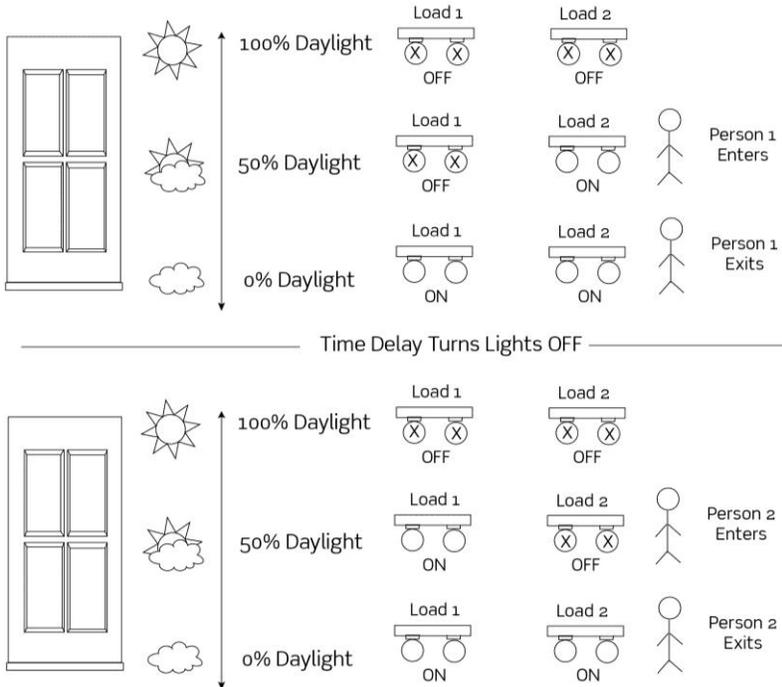
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O2C Modes for Multi-Zone Load Control

Mode 5 Stairwell



Mode 6 Step Dimming – Alternating Daylighting Levels



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Mode 7 Stepped Dimming – Load 1 Primary – Ideal for Classrooms

