Lutron® 0–10 V⎓ Wallbox Controls with a Power Pack and Wired Occupancy Sensor
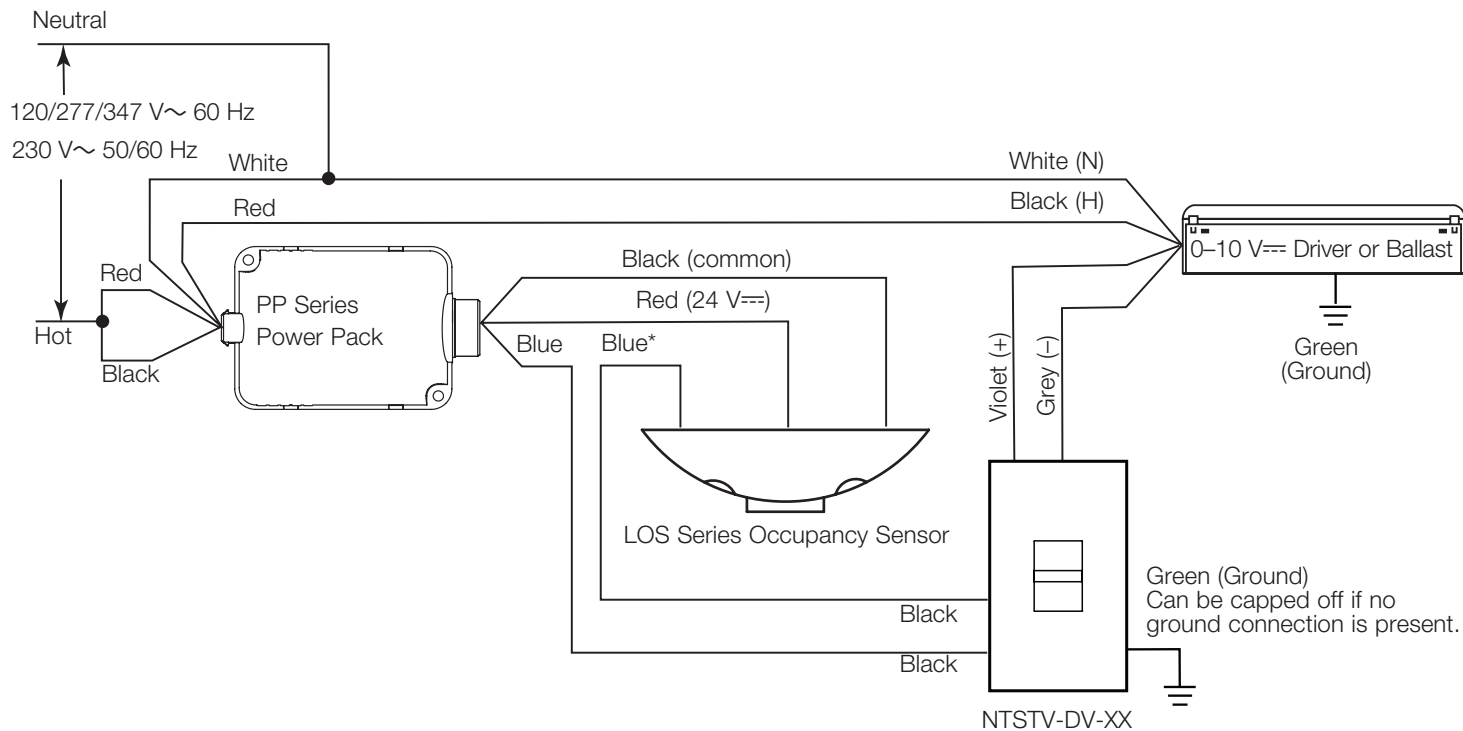
The NTSTV-DV and DVTV are 0–10 V⎓ controls for compatible 0–10 V⎓ LED drivers and fluorescent ballasts. This guide demonstrates how to wire a Lutron® occupancy sensor with the NTSTV-DV or DVTV in the same installation.
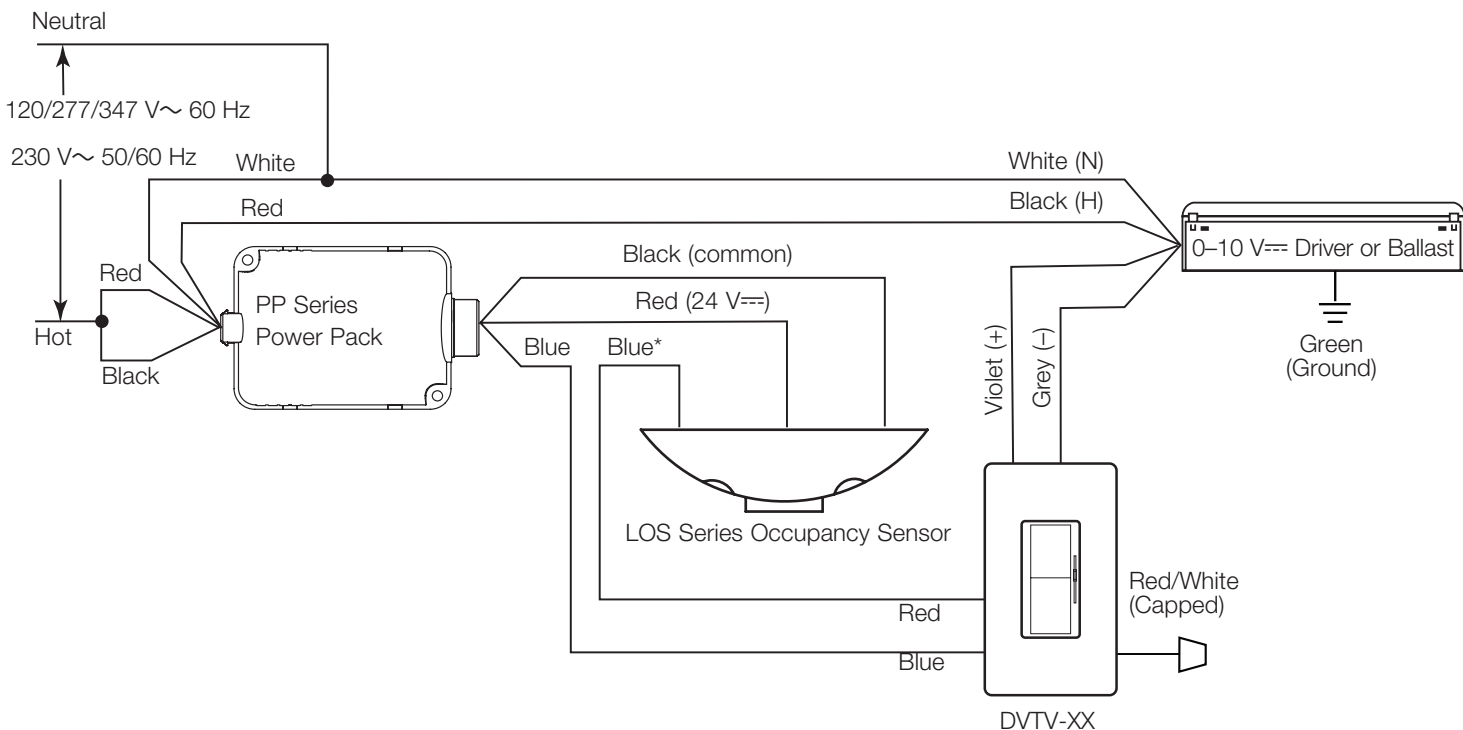
Notes:

- Requires the use of a Lutron® PP Series power pack (e.g., PP-DV or PP-347H).

- If the dimmer is in the OFF position, the occupancy sensors will NOT turn the lights on when the room becomes occupied.

- If the dimmer is in the ON position, the occupancy sensor will turn the lights ON to the last set level when the room becomes occupied.

- If the occupancy sensor turns the lights OFF due to time-out and the dimmer remains in the ON position, the occupancy sensor will return the lights to the last set level once the room becomes occupied.

- The green ground wire of the NTSTV-DV can be capped off in this Class 2 installation if no ground connection is present.

- The following wiring installation is valid for Lutron® LOS-CIR, LOS-CUS, LOS-CDT, LOS-WIR and LOS-WDT Series occupancy sensors

Wiring Diagram: NTSTV-DV

Neutral

120/277/347 V∿ 60 Hz
230 V∿ 50/60 Hz   White

White (N)

Black (H)

Red

0–10 V⎓ Driver or Ballast

Red

Black (common)

PP Series
Power Pack

Red (24 V⎓)

Blue   Blue*

Green
(Ground)

Hot

Black

LOS Series Occupancy Sensor

Violet (+)   Grey (–)

Green (Ground)
Can be capped off if no
ground connection is present.

Black

Black

NTSTV-DV-XX

Wiring Diagram: DVTV

Neutral

120/277/347 V∿ 60 Hz
230 V∿ 50/60 Hz   White

White (N)

Black (H)

Red

0–10 V⎓ Driver or Ballast

Red

Black (common)

PP Series
Power Pack

Red (24 V⎓)

Blue   Blue*

Green
(Ground)

Hot

Black

LOS Series Occupancy Sensor

Violet (+)   Grey (–)

Red/White
(Capped)

Red

Blue

DVTV-XX

* For LOS-CDT-500R-WH, LOS-CDT-1000R-WH, LOS-CDT-2000R-WH, and LOS-WDT-R-WH models: Use the gray wire instead of the blue wire to use the photo cell option. The photo cell option prevents the lights from turning on when there is sufficient natural light and is available only with these –R models. These models also contain a separate relay output (yellow/white, black/white, and blue/white wires) that is not needed for this installation.

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