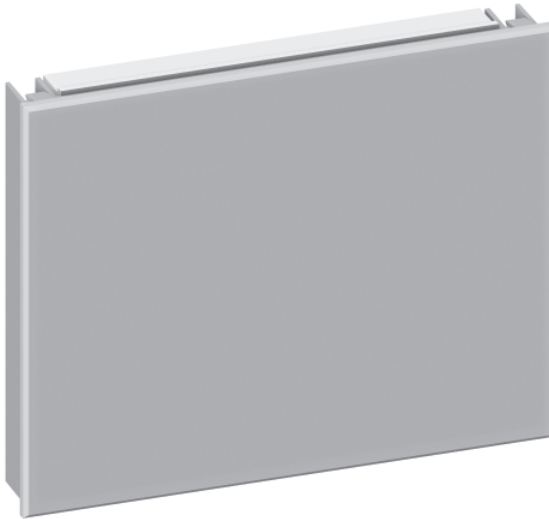


Switching Power Module



Description

- Provides capability for a zone on a *GRAFIK Eye* control unit (or other product) to switch a fully loaded circuit of lighting.
- May be used to switch incandescent, electronic low-voltage, magnetic low-voltage, HID, fluorescent ballasts, and neon/cold cathode lighting sources.
- Utilizes Softswitch® arcless switching technology.
- Provides power and switching for one zone.
- Up to 3 power modules may be wired on a single *GRAFIK Eye* zone.
- Model available for 120 V~ control power.
- Model available for 120 - 277 V~ load power.

Works with 120 V~ versions of:

- Lutron® 3-wire fluorescent dimmers (consult Lutron for Vierti®); see approved list in the dimmers & switches specification guide at www.lutron.com
- *GRAFIK Eye* QS control units
- *GRAFIK Eye* 3000 Series control units
- LP, LCP, and GP dimming panels
- HomeWorks® remote power panels

Model and Capacities

Control Power	Load Power	Capacity	Model Number
120 V~	120 - 277 V~	16 A	PHPM-SW-DV-WH

Job Name:

Model Numbers:

Job Number:

Specifications

Power

- Control / load power:
120 V $\sim$ / 120 - 277 V $\sim$
50 / 60 Hz, phase-to-neutral.
- Load (output) power: Phase independent of control unit.

Sources/Load Types

- Switches the following load types:
 - Incandescent (tungsten)
 - Halogen
 - Magnetic low-voltage transformer (iron core)
 - Electronic (solid-state) low-voltage transformer.
 - Magnetic and electronic fluorescent dimming ballasts
 - Neon/cold-cathode
 - HID
- Motors:
 - 1/2 HP at 277 V $\sim$
 - 1/3 HP at 120 V $\sim$
- May be used with GFI/AFI breaker protected loads.

Key Design Features

- Patented Softswitch® technology.
- Two LEDs on front of unit provide diagnostic information (visible when faceplate is removed).

Terminals

Accept up to two 12 AWG (2.5 mm²) wires.

Environment

- 32 to 104 °F (0 to 40 °C). Relative humidity less than 90% non-condensing.
- Indoor use only.
- Maximum heat output of module: 15 BTU/hour.

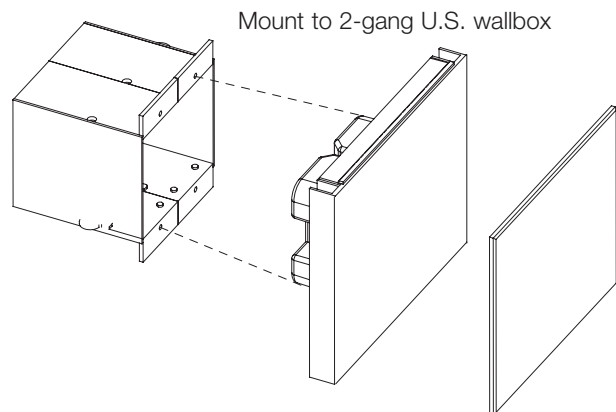
Mounting

- Surface or recess mount.
- Power module is UL tested and approved for use in spaces designed for environmental air handling.

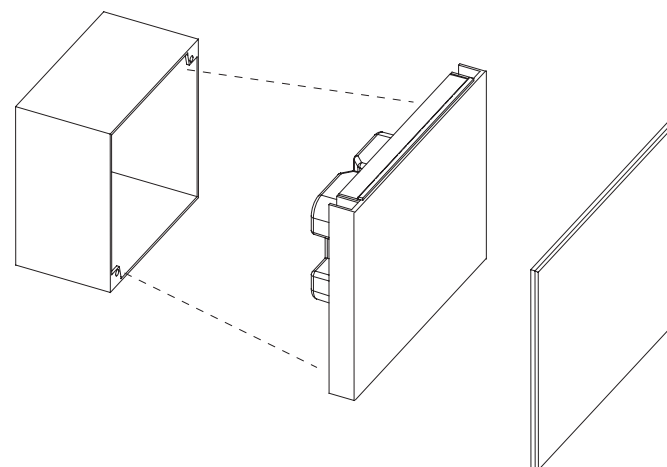
Job Name:**Model Numbers:****Job Number:**

Dimensions and Mounting

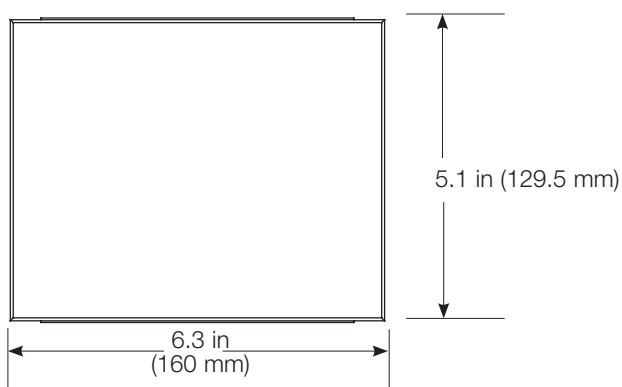
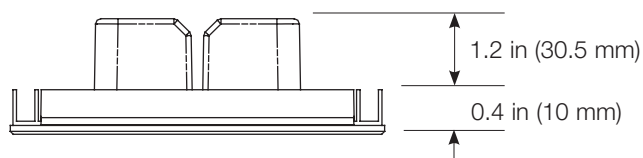
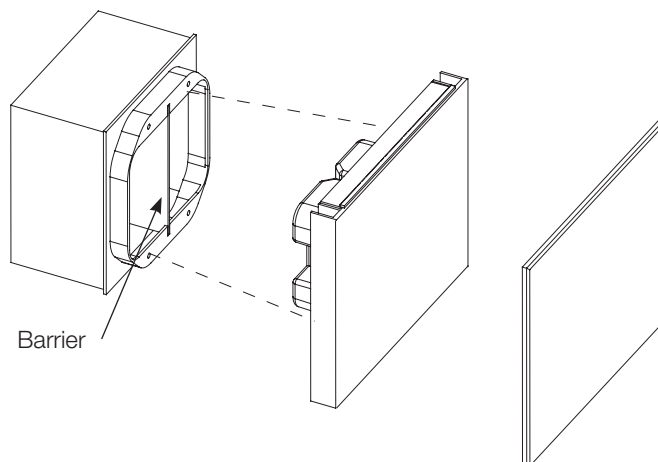
- Mount in 2-gang U.S. wallbox 3.5 in (89 mm) deep or 4 x 4 in (102 x 102 mm) junction box 2.1 in deep (53 mm).
- Indoors only.
- Mount only where ambient temperature is 32 to 104 °F (0 to 40 °C).
- Allow 4.5 in (114 mm) above and below unit and between faceplates when mounting several in a vertical layout.
- Mount so line (mains) voltage wiring is at least 6 ft (1.8 m) from sound or electronic equipment and wiring.
- Mount within 7° of true vertical.



Mount to 4 x 4 in (102 x 102 mm), 2.1 in (53 mm) deep U.S. junction box



Mount to 4 x 4 in (102 x 102 mm), 2.1 in (53 mm) deep U.S. junction box with barrier (for 277 V~ loads if required by local electrical code)



Job Name:

Model Numbers:

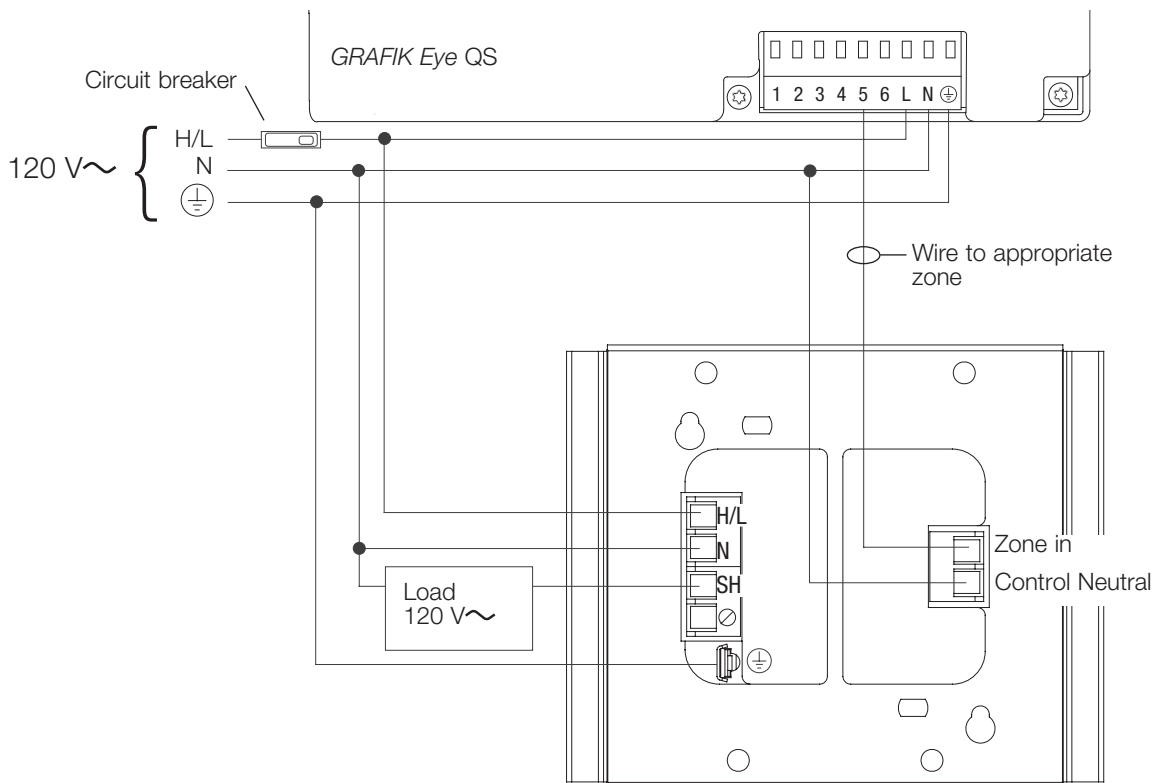
Job Number:

Wiring

- Pull 12 AWG (2.5 mm²) copper (Cu) wires (75 °C/167 °F minimum) for input power and load circuit.
- Strip 1/2 in (12 mm) insulation from wires before connecting.
- Run separate neutral for load circuit - no common neutrals.
- May be used with GFI breaker protected loads. Load circuit wiring (from GFI breaker to power module to load) must be run in its own non-metallic conduit, or nuisance tripping may occur. Maximum 100 ft (30.5 m) between power module and load.
- May be used with AFI breaker protected loads. Maximum load on AFI circuit is 1000 W. Exceeding 1000 W may cause nuisance tripping of AFI breaker.

Single Power Feed

Note: The power modules may be on the same circuit as the control unit only if the total load does not exceed the rating of the breaker.



Legend

Legend

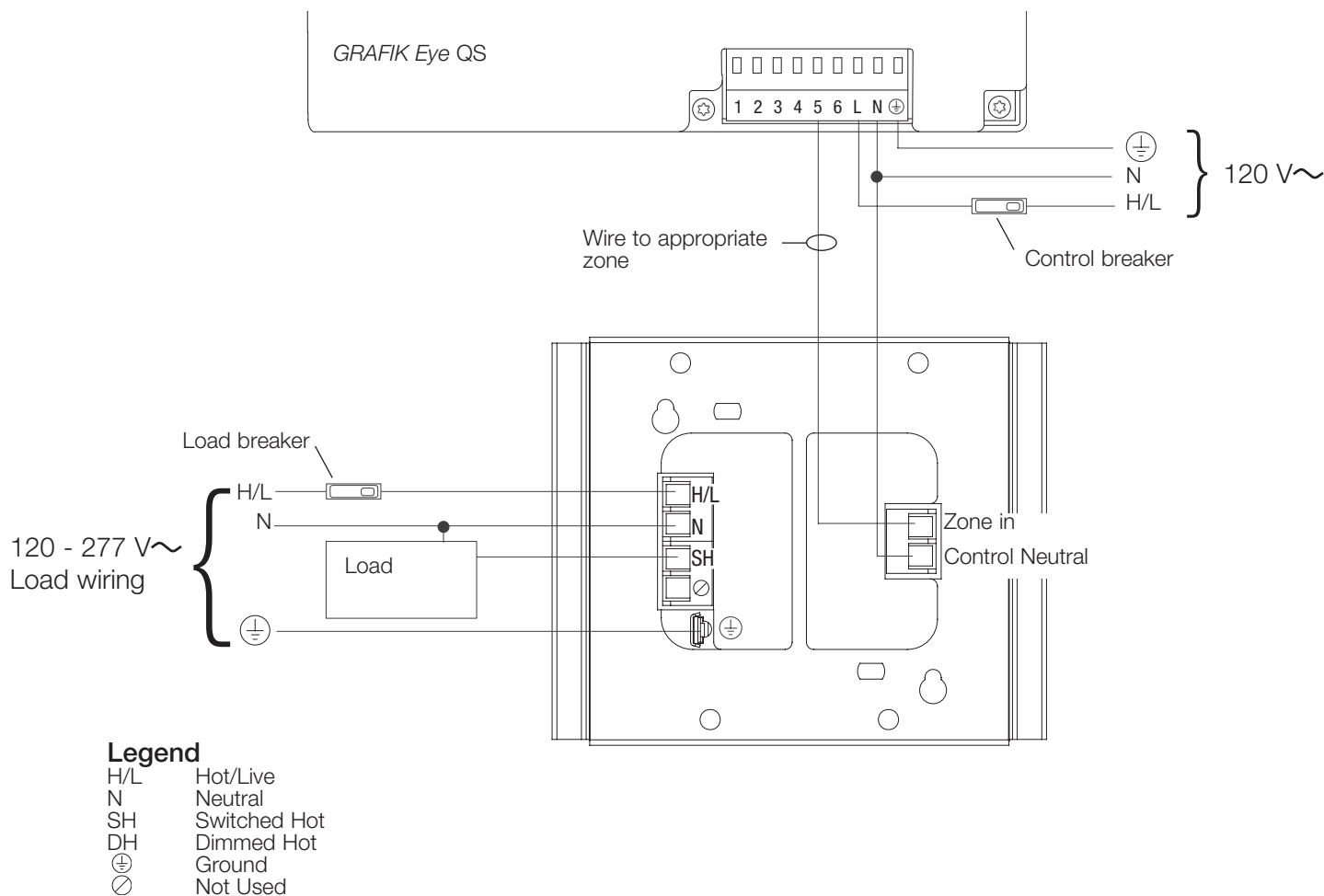
H/L	Hot/Live
N	Neutral
SH	Switched Hot
DH	Dimmed Hot
⊕	Ground
⊘	Not Used

Job Name:	Model Numbers:
Job Number:	

Wiring

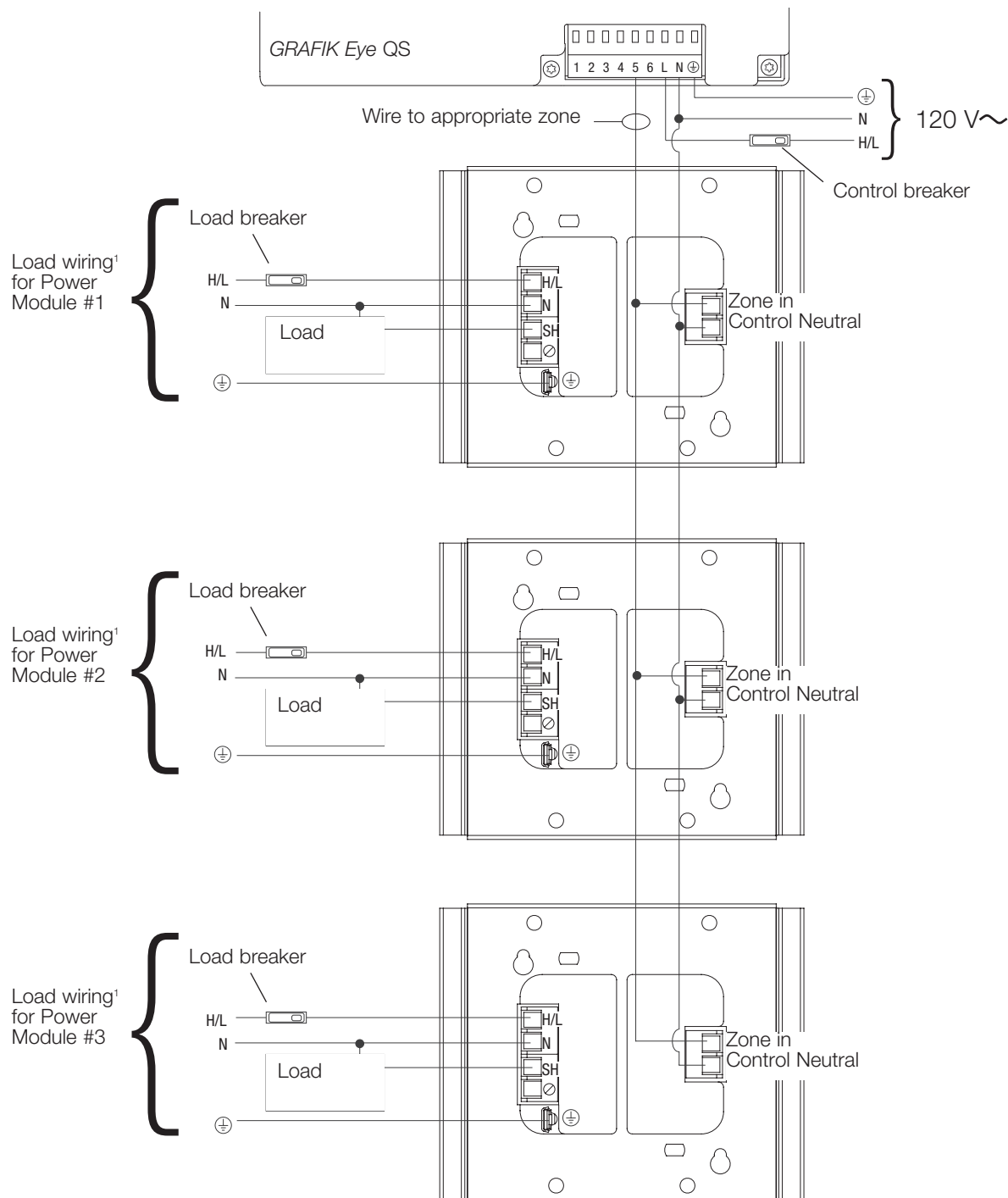
Multiple Power Feeds

The load breaker may be on a different phase than the control breaker.



Wiring Multiple Power Modules to a Single GRAFIK Eye® Zone

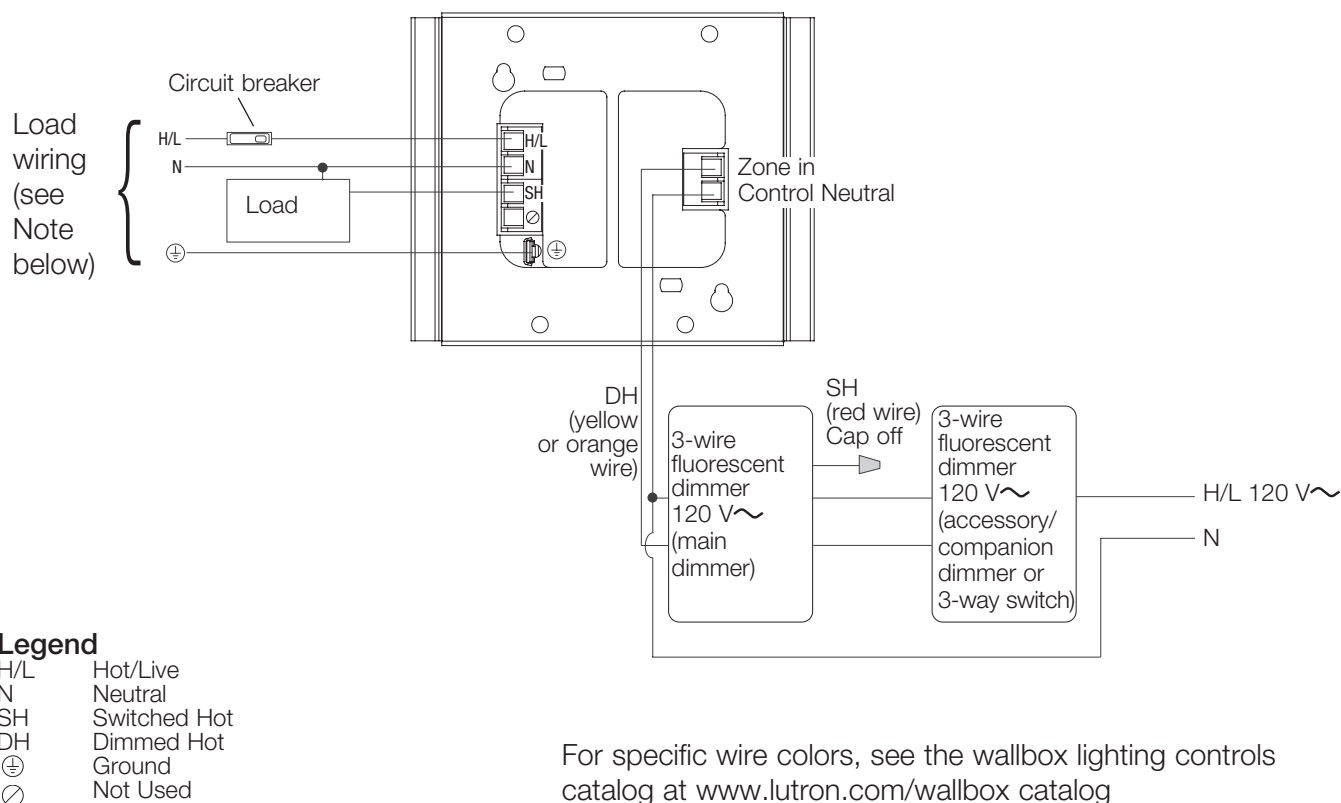
Shown with separate feeds for control and loads. All breakers must be turned off prior to installing or servicing the modules. Up to 3 power modules may be wired to a single zone.



¹Load feed: 120 - 277 V~ for PHPM-SW-DV-WH

Multilocation Wiring

Note: The power module may be on the same circuit/control zone as the control device only if the total load does not exceed the rating of the breaker (120 V~ only).



Note: ¹Load feed: 120 - 277 V~ for PHPM-SW-DV-WH

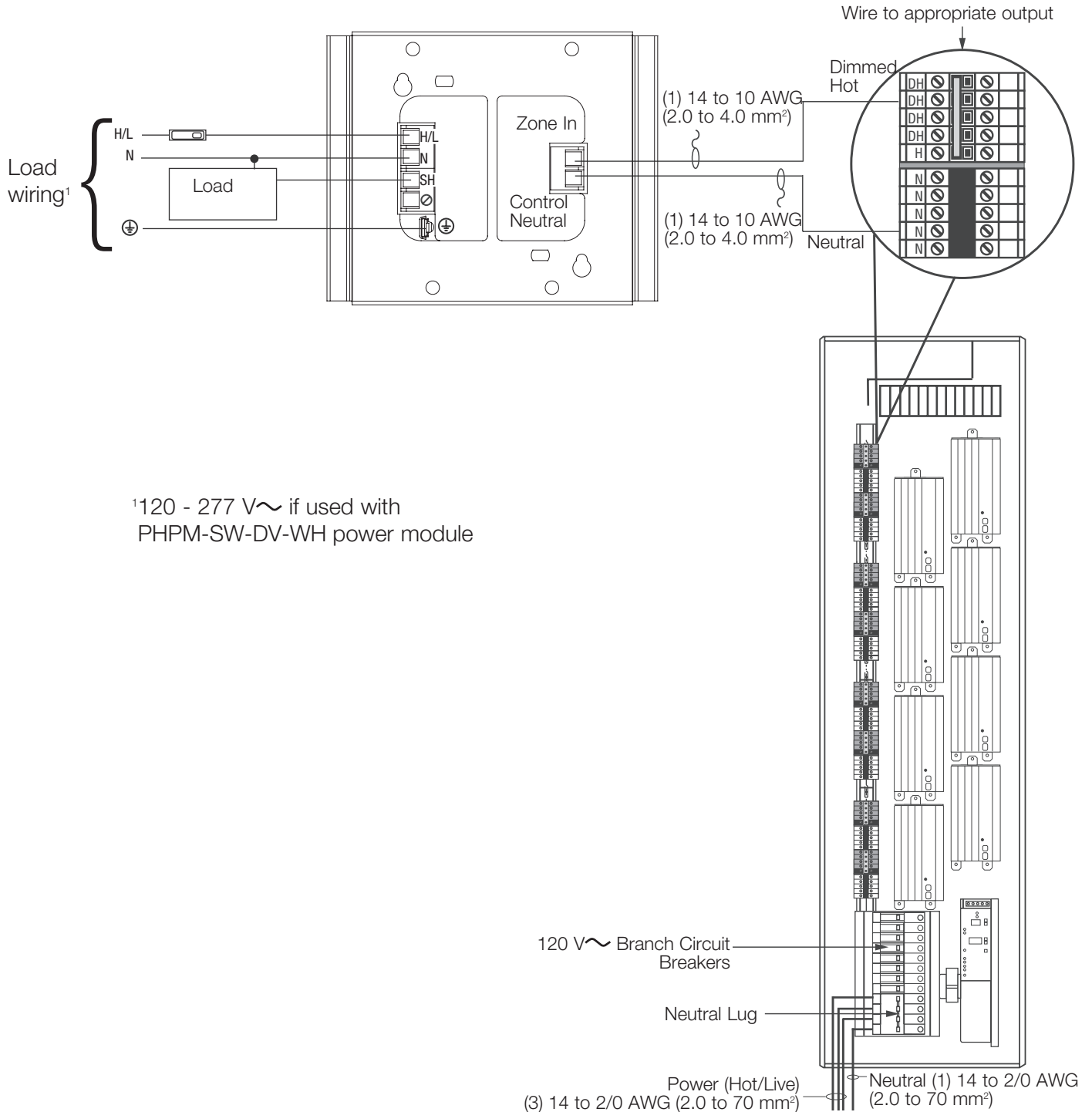
Job Name:

Model Numbers:

Job Number:

Wiring a Power Module to an LP, LCP, GP, or HomeWorks® Panel

Up to three switching power modules may be wired to an output of a 120 V $\sim$ LP or LCP panel. The load type for the output must be set as non-dim load type on the panel's circuit selector (for an LP or GP panel), controller (for an LCP panel), or *HomeWorks* software (for a *HomeWorks* panel).



Job Name:	Model Numbers:
Job Number:	