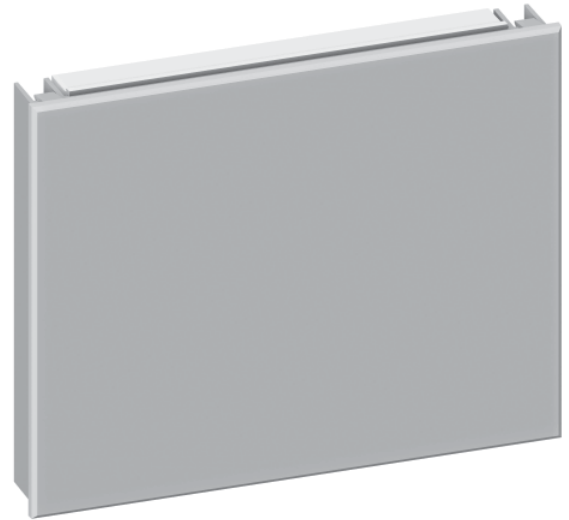


3-Wire Fluorescent Power Module

Description

- Provides capability for a zone on a GRAFIK Eye® control unit (or other product) to dim fluorescent lights that have Lutron® Hi-lume® and Eco-10® (Eco Series) line-voltage control electronic dimming ballasts.
- Utilizes Softswitch® arcless switching technology.
- Up to 3 power modules may be wired on a single GRAFIK Eye® zone.
- Models available for 120 V~ control power.
- Models available for 120 V~ or 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® and HomeWorks® QS remote power panels

Models and Capacities

Model Number	Control Power	Load Power	Capacity
PHPM-3F-DV-WH	120 V~	120–277 V~	16 A
PHPM-3F-120-WH	120 V~	120 V~	16 A

Job Name:

Model Numbers:

Job Number:

Specifications

Regulatory Approvals

- UL® listed
- CSA certified
- NOM certified
- Complies with requirements for use in other spaces used for environmental air (plenums) per NEC® 2014 300.22(C)(3)

Power

- Control voltage: 120 V~
- Load voltage: 120 V~ only for PHPM-3F-120-WH
120–277 V~ for PHPM-3F-DV-WH
- Capacity: Full 16 A
120 V~: 1920 W
120–277 V~: 1920–4432 W
- Frequency: 50/60 Hz, phase-to-neutral.
- Load (output) power: Phase independent of control device/control voltage.

Sources/Load Types

- Operates Lutron® Hi-lume®, Eco-10® (Eco Series), Compact SE™, EcoSystem®, and EcoSystem® Compact line-voltage control electronic dimming ballasts with a smooth continuous Square-Law dimming curve.

Key Design Features

- Patented RTISS™ circuitry compensates in real time for incoming line-voltage variations: Compensates for +/-2% change in RMS voltage/cycle and +/-2% Hz change in frequency/second.
- Provides air-gap off.
- Module protects itself during temporary over-current conditions on dimmed output.
- 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 °F to 104 °F (0 °C 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.

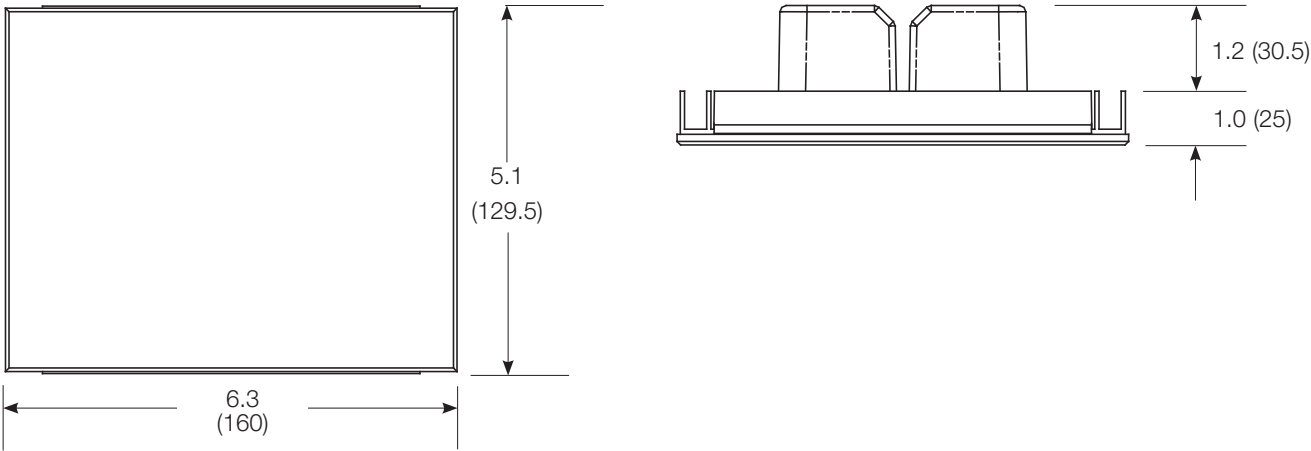
Job Name:

Model Numbers:

Job Number:

Dimensions

All dimensions shown as: in (mm)



 SPECIFICATION SUBMITTAL

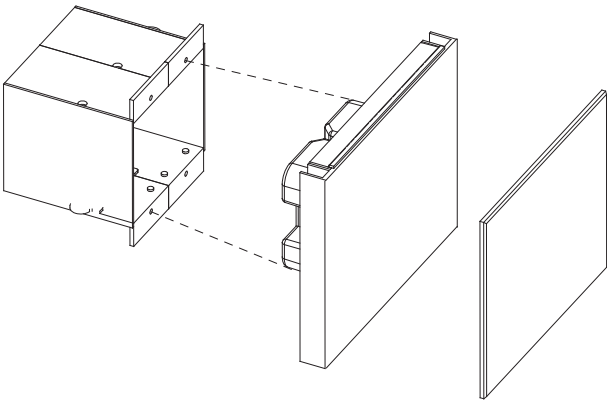
Page

Job Name:	Model Numbers:
Job Number:	

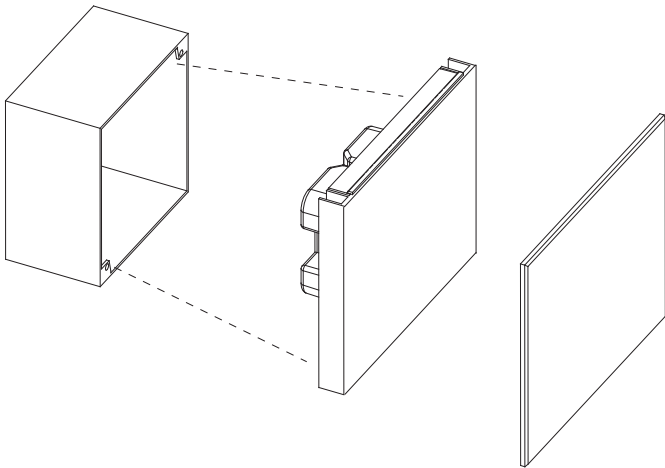
Mounting

- Mount in 2-gang U.S. wallbox 3.5 in (89 mm) deep or 4 in x 4 in (102 mm x 102 mm) junction box 2.1 in (53 mm) deep.
 - Indoor use only.
 - This device generates heat; mount only where ambient temperature is 32 °F to 104 °F (0 °C to 40 °C).
 - Mount with arrows facing up to ensure adequate cooling.
- 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.

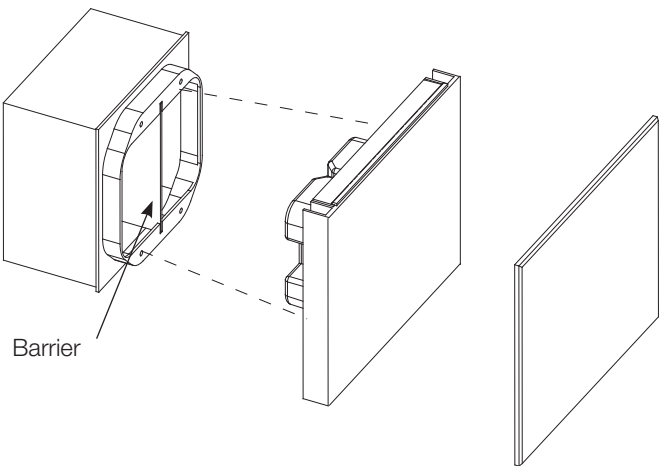
Mount to 2-gang U.S. wallbox



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



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

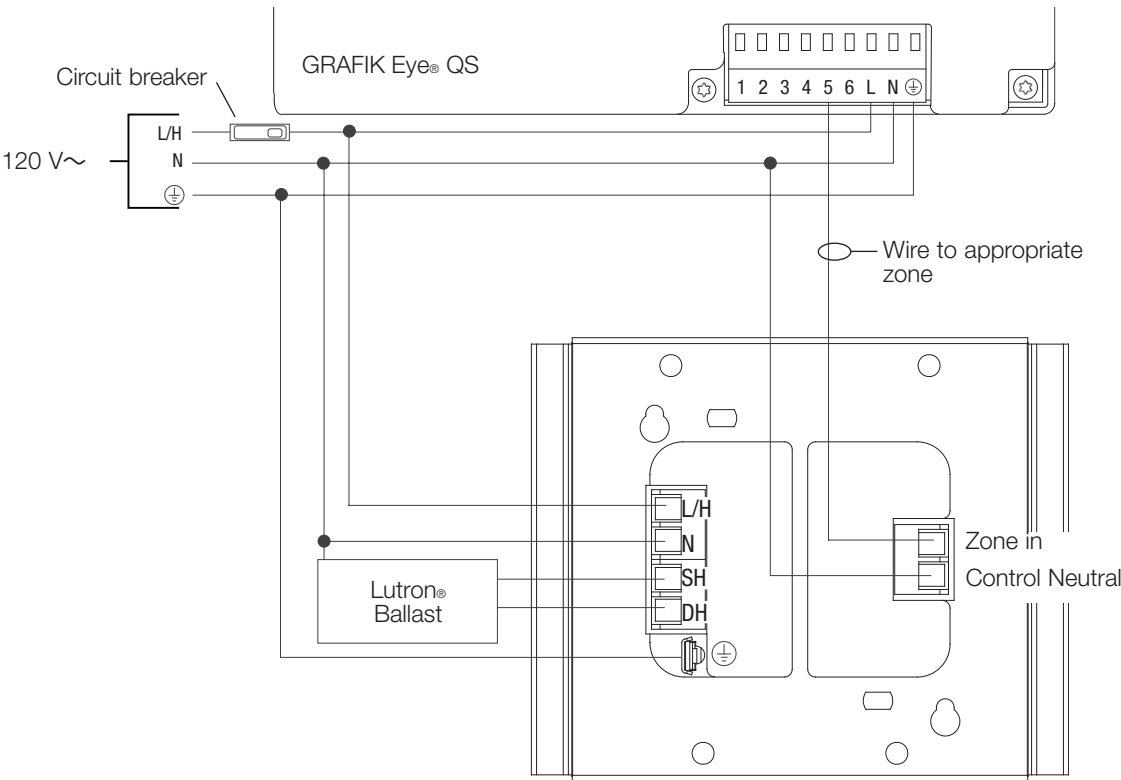


Wiring

- Pull 12 AWG (2.5 mm²) copper (Cu) wires [167 °F (75 °C) 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.

Single Power Feed

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

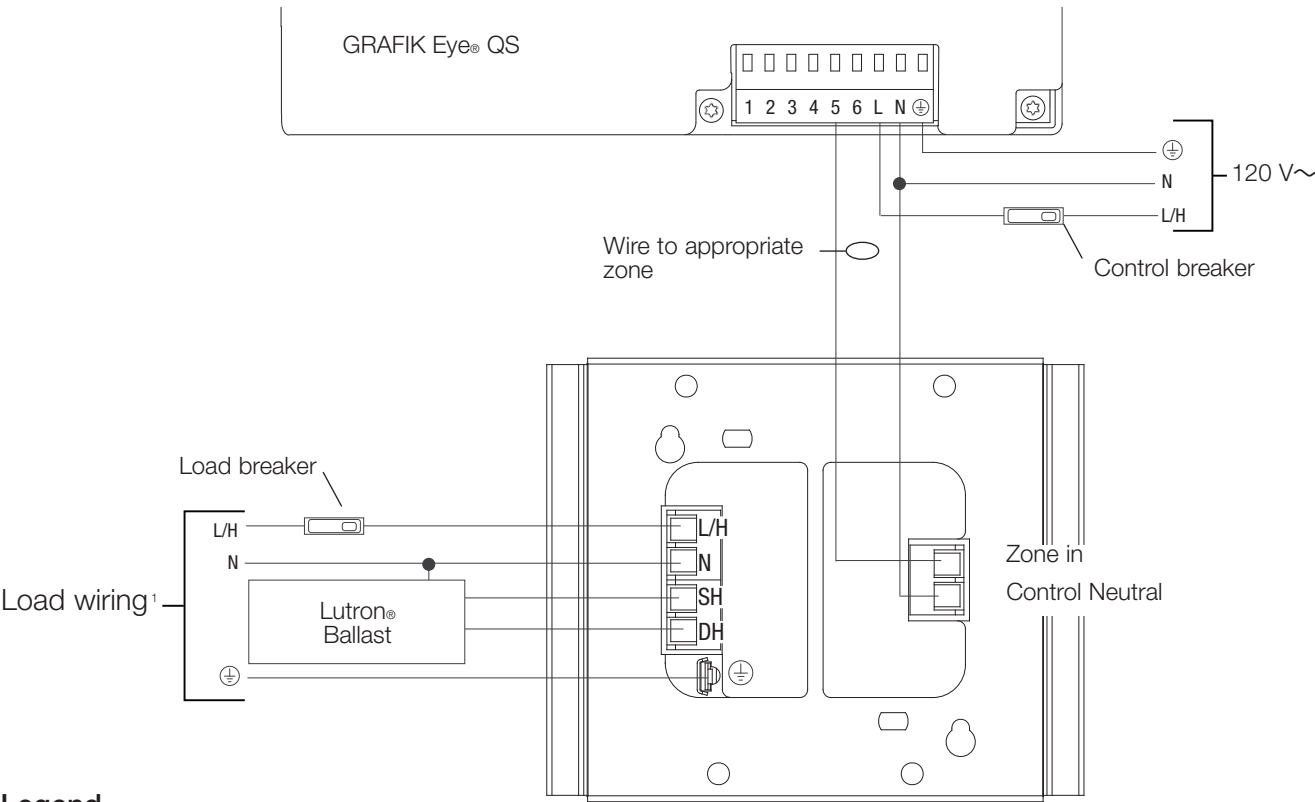


- Legend**
- L/H Line/Hot
 - N Neutral
 - SH Switched Hot
 - DH Dimmed Hot
 - ⊕ Ground
 - ⊘ Not Used

Wiring (continued)

Multiple Power Feeds

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



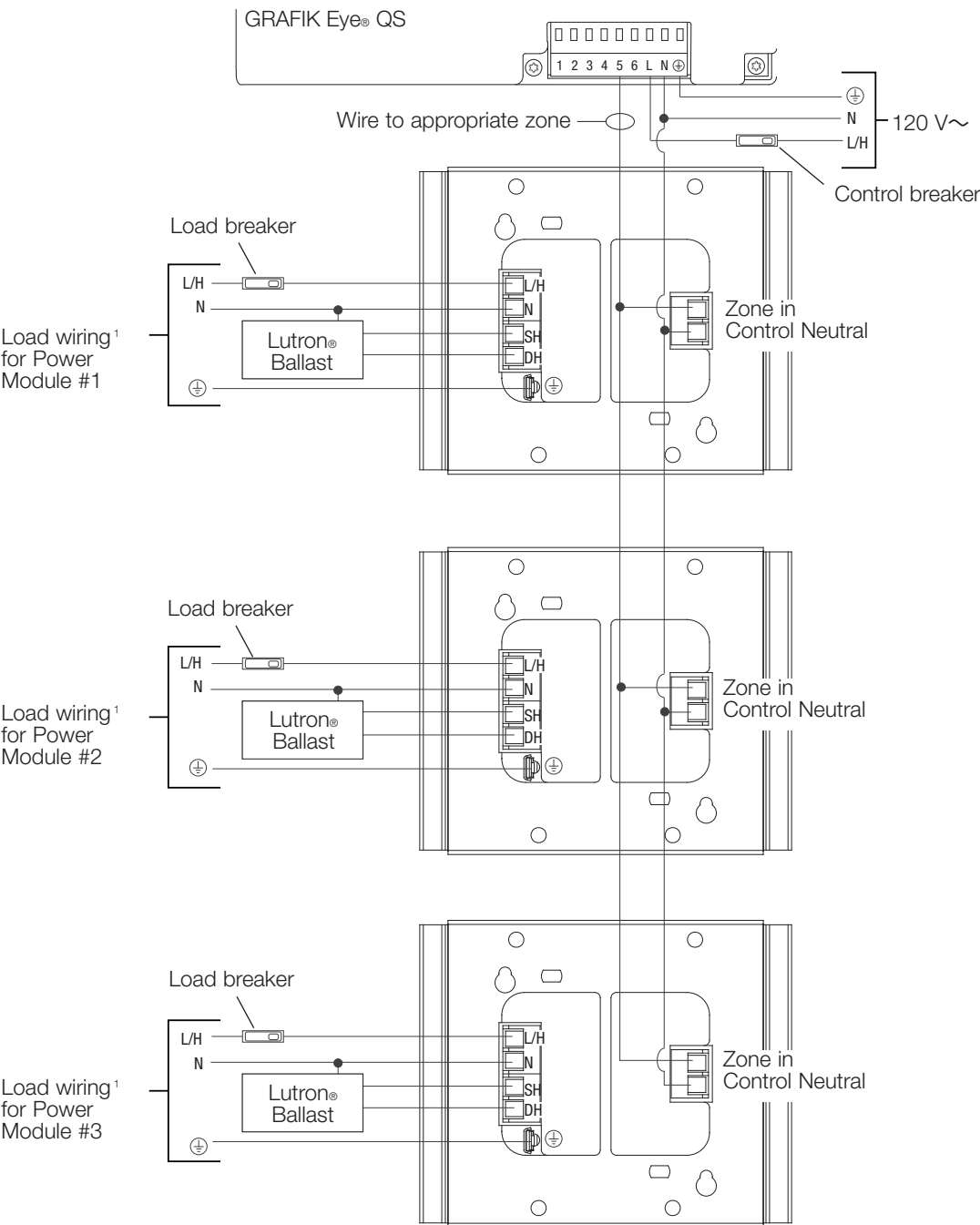
- Legend**
- L/H Line/Hot
 - N Neutral
 - SH Switched Hot
 - DH Dimmed Hot
 - ⊕ Ground
 - ⊘ Not Used

¹ Load feed: 120 V~ for PHPM-3F-120-WH; 120 – 277 V~ for PHPM-3F-DV-WH

Wiring (continued)

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.

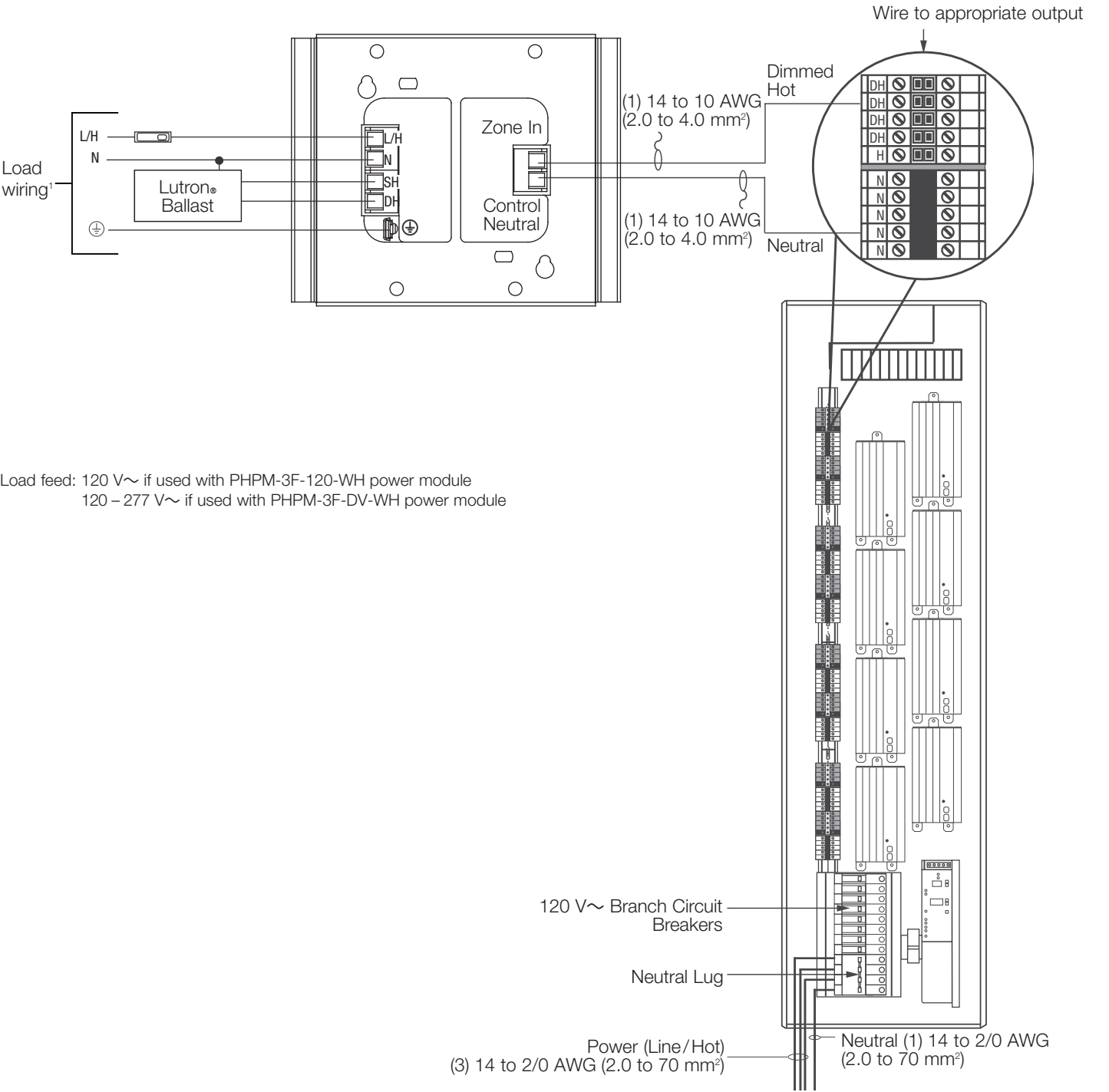


¹ Load feed: 120 V~ for PHPM-3F-120-WH; 120 – 277 V~ for PHPM-3F-DV-WH

Wiring (continued)

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

Up to three 3-wire fluorescent power modules may be wired to an output of a 120 V~ LP or LCP panel. The load type for the output must be set as Eco-10® or Hi-lume® fluorescent 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).



¹ Load feed: 120 V~ if used with PHPM-3F-120-WH power module
120 – 277 V~ if used with PHPM-3F-DV-WH power module