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Phase-Adaptive Power Module with 3-Wire Fluorescent Input

Description

- When connected to a 20 A circuit breaker, provides capacity on a 3-wire fluorescent dimmer for a full 16 A load of lighting.
- May be used to dim incandescent, halogen, electronic low-voltage (ELV), magnetic low-voltage (MLV), neon/cold cathode, or Lutron Tu-Wire lighting sources.
- Phase-adaptive technology automatically selects leading-edge or trailing-edge dimming for low-voltage transformers.
- Up to 3 power modules may be controlled by a single dimmer.
- Models require 120 V
 ∼ control voltage.
- Models available for 120 V \sim only or 120 277 V \sim load voltage.
- Not for use with non-dim loads.



- 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 units¹
- GRAFIK Eye 3000 Series control units**
- LP, LCP, and GP dimming panels²
- HomeWorks and HomeWorks QS remote power panels²
- HomeWorks and HomeWorks QS neutral wire dimmers
- RadioRA 2 neutral wire dimmers
- Caseta Wireless neutral wire dimmers
- EcoSystem interface C5-BMJ-xxx

Models and Capacities

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

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² Set to 3-wire fluorescent load type

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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 \sim only for PHPM-WBX-120-WH 120 277 V \sim for PHPM-WBX-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 these sources with a smooth continuous Square Law dimming curve:
 - Incandescent (tungsten)
 - Halogen
 - MLV transformer (iron core)
 - ELV transformer (solid-state) (must be manufacturer approved for reverse-phase control dimming)
 - Neon/Cold cathode
 - Lutron Tu-Wire fluorescent dimming ballasts
- Incandescent and ELV sources may be controlled on the same circuit/control zone. Up to 30% of the unit's capacity may be used for incandescent lighting.
- Incandescent and MLV sources may be controlled on the same circuit/control zone. Up to 30% of the unit's capacity may be used for incandescent lighting.
- ELV and MLV sources may NOT be controlled on the same circuit/control zone.
- PHPM-WBX not for use with non-dim loads. Use switching power module (PHPM-SW-DV-WH) for nondim loads.
- Minimum load on power module is 10 W.
- Output must be directly connected to the load. Load side switching is not recommended.

Key Design Features

- Automatically selects between forward phase/leading edge (i.e., MLV) and reverse phase/trailing edge (i.e., ELV) dimming/output based on connected load.
- Patented RTISS Equipped 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 most temporary overcurrent and over-voltage conditions.
- Two LEDs on front of unit provide diagnostic information (visible when faceplate is removed).

Terminals

 Each terminal accepts 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: 135 BTU.

Mounting

• Surface- or recess-mount.

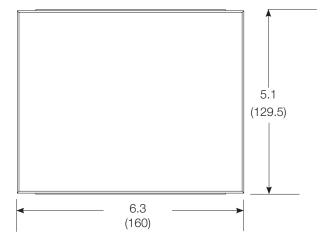
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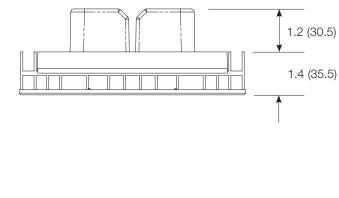
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Dimensions

All dimensions shown as: in (mm)





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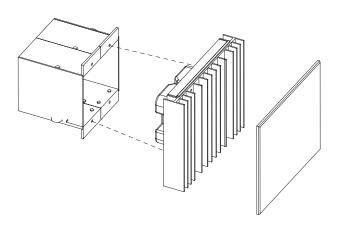
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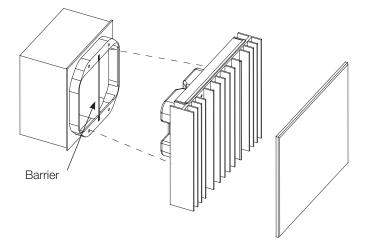
Mounting

- 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.

Mount to 2-gang U.S. wallbox

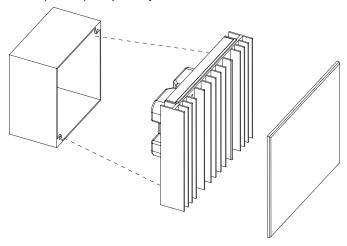


Mount to 4 in x 4 in (102 mm x 102 mm), 2.1 in (53 mm) deep U.S. junction box with barrier (for 277 V~ model if required by local electrical code)



- 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
- Mount within 7° of true vertical.

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



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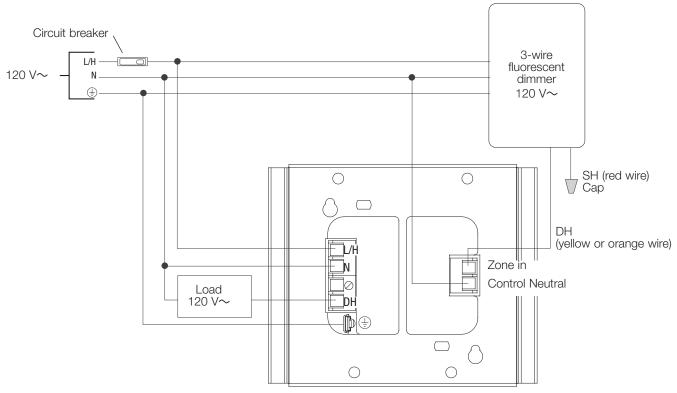
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Wiring

- 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.
- 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 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

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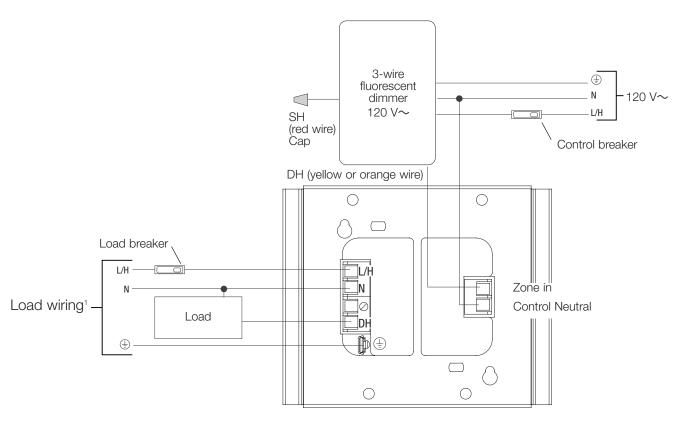
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Wiring (continued)

Separate Power Feeds for Control and Load Sides

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

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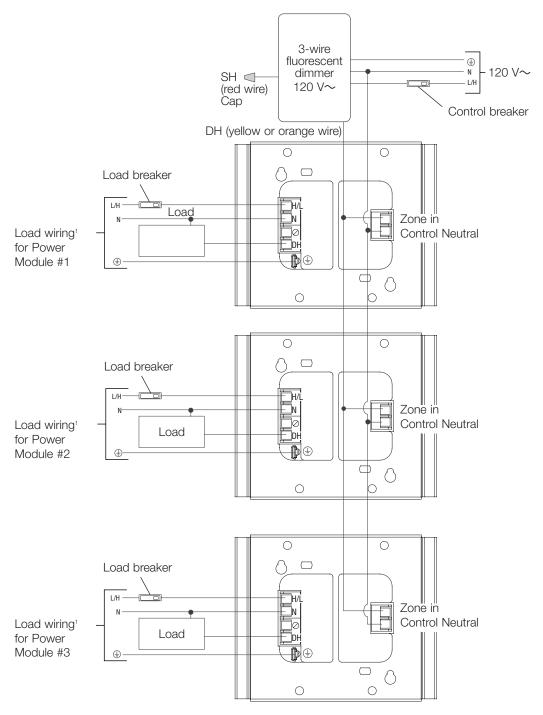
 $^{^{1}}$ Load feed: 120 V \sim for PHPM-WBX-120-WH; 120 – 277 V \sim for PHPM-WBX-DV-WH

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Wiring (continued)

Wiring Multiple Power Modules to a Single Control Device

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 dimmer.



 $^{^{\}text{1}}$ Load feed: 120 V \sim for PHPM-WBX-120-WH; 120 – 277 V \sim for PHPM-WBX-DV-WH

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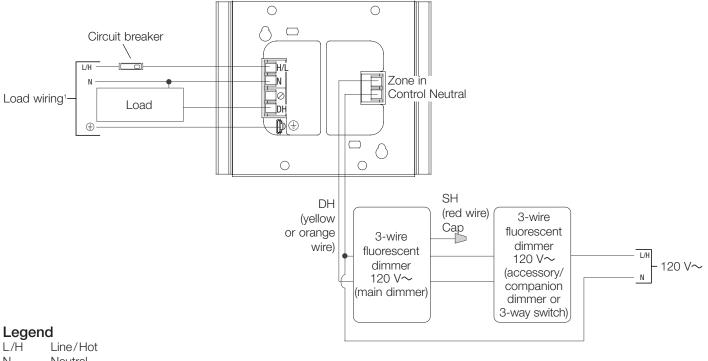
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Wiring (continued)

Multi-location Wiring

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 $V\sim$ only).



L/H Line/Hot
N Neutral
SH Switched Hot
DH Dimmed Hot

Ground

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Not Used

For specific wire colors, see the wallbox lighting controls catalog at www.lutron.com/wallbox catalog

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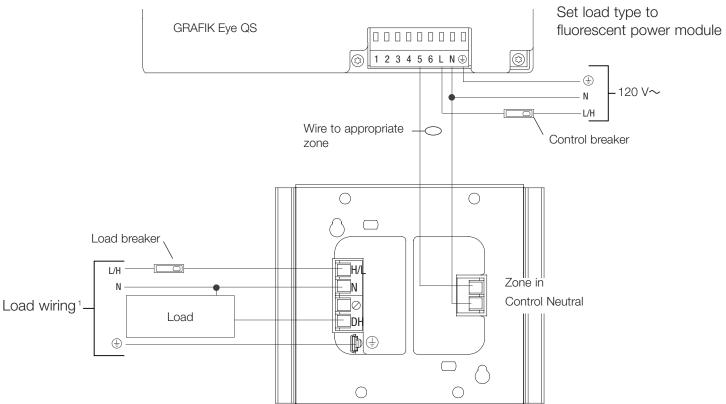
 $^{^{1}}$ Load feed: 120 V \sim for PHPM-WBX-120-WH; 120 – 277 V \sim for PHPM-WBX-DV-WH

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Wiring (continued)

Wiring to a GRAFIK Eye QS Control Unit - Separate Power Feeds for Control and Load Sides

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

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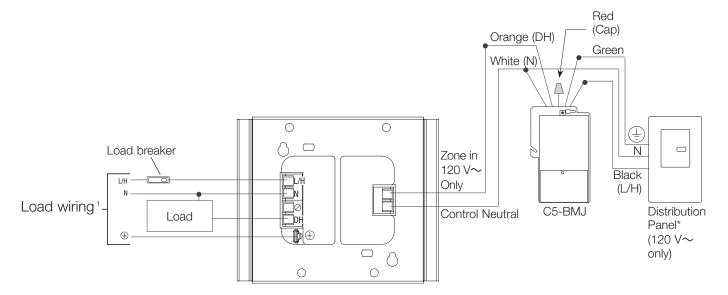
¹ Load feed: 120 V \sim for PHPM-WBX-120-WH; 120 – 277 V \sim for PHPM-WBX-DV-WH

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Wiring (continued)

Wiring to an EcoSystem C5-BMJ Interface - Separate Power Feeds for Control and Load Sides Control side must be 120 V \sim

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

Job Name:

Job Number:

*Note: C5-BMJ must be powered from a 120 V~ distribution panel to ensure proper voltage to the "Zone In" terminal of the PHPM-WBX interface.

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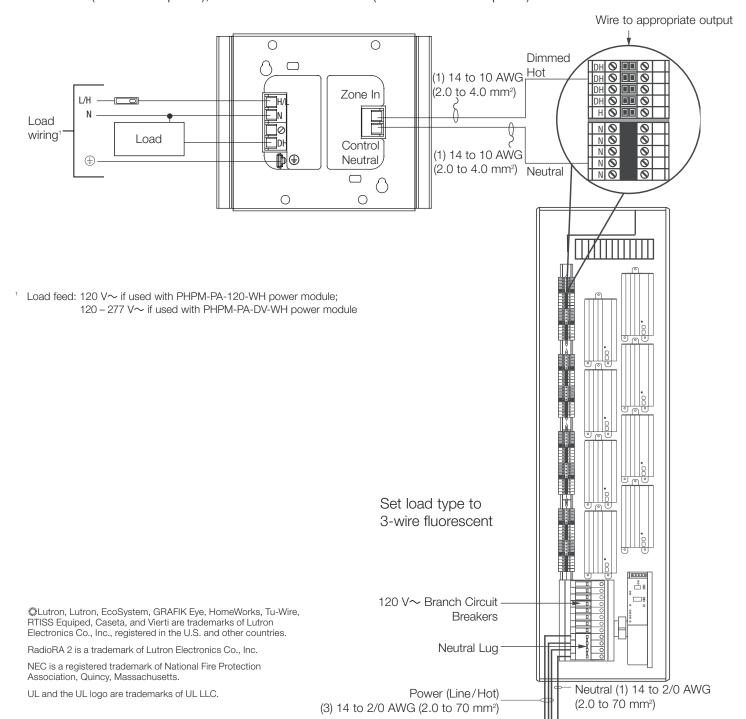
 $^{^{\}text{1}}$ Load feed: 120 V \sim for PHPM-WBX-120-WH; 120 – 277 V \sim for PHPM-WBX-DV-WH

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Wiring (continued)

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

Up to three phase-adaptive power modules may be wired to an output of a 120 V~ Lutron dimming panel. The load type for the output must be set appropriately on the panel's circuit selector (for an LP or GP panel), controller (for an LCP panel), or HomeWorks software (for a HomeWorks panel).



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