



Key Features

- Uses existing wall switches
- Up to 50% energy savings
- Bi-level lighting control with one power feed
- No need to re-circuit
- Installs easily in wiring compartment of light fixture
- Passive energy savings
- Can be used with Hubbell motion sensors
- 120 / 208-277V AC
- UL Listed, C-UL, CE approved

Hubbell's multi-level relays provide the perfect retrofit solution for bi- or tri-level lighting in existing buildings. Control is accomplished with a traditional single pole light switch. Turn the switch on and get the first level. Turn off and on again to get full power. This gives occupants more control over illumination in their area. The multi-level relay also provides savings. Using these relays also helps with the lighting power allowances in ASHRAE 90.1 and many local codes such as California Title 24.

Existing buildings are not typically wired to support bi-level or tri-level control methods. Hubbell's multi-level relays eliminate the need for running extra circuits and installing additional switches. The relays are designed to mount in fixture wiring trays for installation simplicity. This allows installers to quickly utilize bi-level ballasts or employ alternating fixture control to reduce energy use. Combining these relays with occupancy sensors further enhances savings by making sure lights go off when the area becomes unoccupied and then returning to the lower lighting level when occupants return.

Features and Benefits

Features	Benefits
Only one power feed required	Eliminates the need for re-circuiting for multi-level lighting applications in existing buildings.
Controlled by a standard wall switch	Works with motion sensors, building automation systems or dedicated power packs.
Sized to fit in fixture wiring trays	Makes retrofit installation quick and easy.
LED(s) indicate operation status	Simplifies installation and commissioning.

Applications

Multiple Ballast Light Fixtures

- Classrooms, offices, & high bay fluorescent fixtures

Step Dimming Ballast Control

- Eliminates dual wall switch control

Alternate Fixture Control

- High bay fixtures in box stores, gymnasiums, exhibition halls, & warehouses



H-MOSS[®] Occupancy Sensors



Power Packs and Relays - Enclosed 10 Amp SPDT Relays

Multi-Level Relays

Description	Catalog Number
Enclosed Independent Control for Multiple Ballast Light Fixtures from One Existing Wall Switch, Bi-Level; 120/208-277V AC	AARBL2
Enclosed Independent Control for Multiple Ballast Light Fixtures from One Existing Wall Switch, Tri-Level; 120/208-277V AC	AARBL3

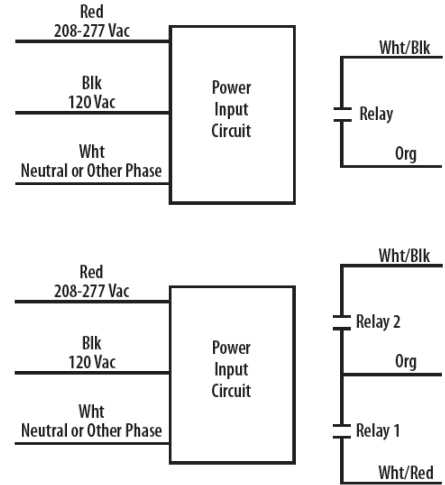


Specifications

Input Power	120 / 208-277V AC
Contact Ratings	5 Amp Ballast @ 120-277V AC 5 Amp Incandescent @ 120V AC
Operating Temperature	-30° to 140° F
Humidity Range	5% to 95% (non-condensing)
Dimensions	3.75" x 1.66" x 1.18" (95.25mm x 42.16mm x 29.97mm)
Weight	0.20 lbs. (AARBL2); 0.24 lbs. (AARBL3)
Wire Length	6.00 inches
Certifications	UL and cUL Listed, CE
Warranty	1 year

Installation

1. Turn power off at the service panel.
2. Wire as shown in the Wiring Diagram section.
3. Reenergize circuit and verify operation by toggling lights on and off.

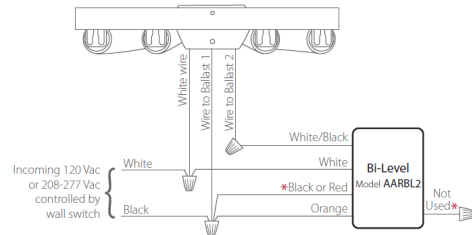


Wiring Diagrams

Wall switch can be replaced by switching devices such as contactors, relays, or controllers.

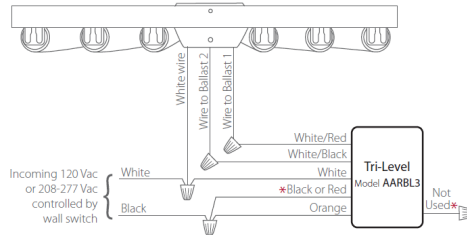
Multiple Ballast Light Fixtures

Classrooms, offices, & high bay fluorescent fixtures



Bi-Level AARBL2

Switch ON: activates Ballast 1 Only (50% light)
Switch OFF, then ON: activates Both Ballasts (Full light)

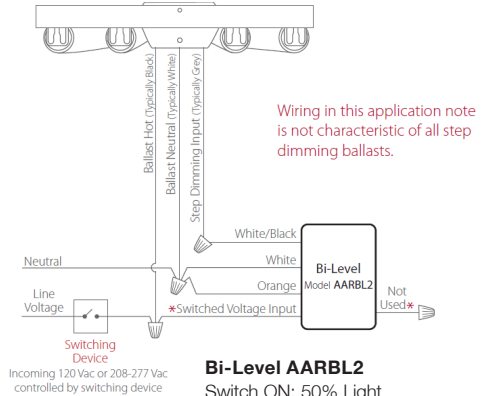


Tri-Level AARBL3

Switch ON: activates Ballast 1 Only
Switch OFF, then ON: activates Ballast 2 Only
Switch OFF, then ON: activates Both Ballasts (Full light)

Step Dimming Ballast Control

Eliminates dual wall switch control



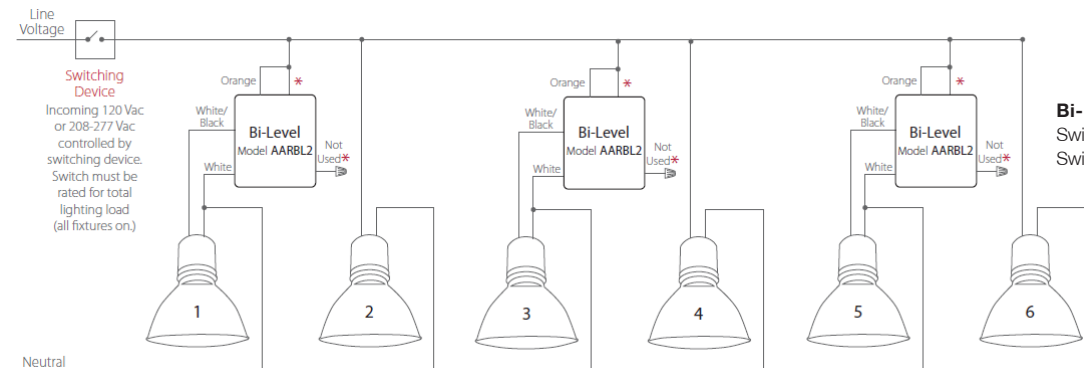
Wiring in this application note is not characteristic of all step dimming ballasts.

Bi-Level AARBL2

Switch ON: 50% Light
Switch OFF, then ON: Full Light

Alternate Fixture Control

High bay fixtures in box stores, gymnasiums, exhibition halls, & warehouses
Start up and restart times may vary depending on fixture.



Bi-Level AARBL2

Switch ON: Every Other Light On
Switch OFF, then ON: All Lights On

* For 120V AC systems, Black wire is used, Red wire is not used. For 208-277V AC systems, Red wire is used, Black wire is not used.

HUBBELL[®]
Wiring Device-Kellems

www.hubbell-wiring.com

