



## High Bay Occupancy Sensors and Controllers *LightBAT™ G2 HID Dual Level Switching Controller and PIR Sensor*

### KEY FEATURES

- Integrated HID control module and passive infrared (PIR) occupancy sensor
- Supports 175W–1,650W CWA (Constant Wattage Auto-Transformer) ballasts
- Guaranteed lamp warm-up intelligence
- Continuous lamp monitoring
- Zero Arc Point Switching
- MyzerPORT™ for quick and easy installations
- Short cycle fixture dimming
- Interchangeable PIR lens options
- UL and cUL listed
- 5-year warranty



LightBAT LB1/LB2/LB3

### OVERVIEW

The LightBAT™ G2 is the world’s first digitally integrated, high intensity discharge (HID), dual-level switching controller and passive infrared (PIR) occupancy sensor. By assembling all the necessary components of an HID dual-level switching system into one compact device, Hubbell Building Automation provides precise area detection and individual fixture control.

The LightBAT™ system turns on only those light fixtures activated by human movement, so full power is maintained only when necessary. Since the lights dim after a short period of vacancy, the LightBAT™ achieves maximum energy savings by switching the fixture to 50% power.

### FEATURES and BENEFITS

Features	Benefits
Integrated HID control module and occupancy sensor	<ul style="list-style-type: none"> <li>• Provides precise area detection and individual fixture control for maximum energy savings</li> <li>• Eliminates the need for wiring between fixtures</li> </ul>
Supports 175W–1,650W CWA ballasts	<ul style="list-style-type: none"> <li>• Support a wide selection of ballasts in today’s market</li> <li>• Supports metal halide, pulse start metal halide, and high pressure sodium</li> </ul>
Guaranteed lamp warm-up intelligence	<ul style="list-style-type: none"> <li>• Increases lamp life by ensuring that proper lamp-operating temperatures are achieved prior to starting the dimming cycle</li> </ul>
Continuous lamp monitoring	<ul style="list-style-type: none"> <li>• Increases lamp life for 24-hour dimmed lamps by automatically running the lamp at full power for fifteen minutes after every 24-hour dimming</li> </ul>
Zero Arc Point Switching (Patent #5,821,642)	<ul style="list-style-type: none"> <li>• Provides reliable switching</li> <li>• Ensures component and system life</li> </ul>
MyzerPORT™ for quick and easy installations	<ul style="list-style-type: none"> <li>• Reduces installation time—typically less than 10 minutes per fixture</li> <li>• Offered by most major fixture manufacturers</li> <li>• Makes standard fixture troubleshooting very easy</li> </ul>
Short cycle fixture dimming	<ul style="list-style-type: none"> <li>• Increases energy savings by quickly switching the fixture to 50% power during vacancy</li> </ul>
Interchangeable passive infrared (PIR) lens options	<ul style="list-style-type: none"> <li>• Enables installation for a wide range of mounting heights (12’–50’) in both aisle and area coverage patterns.</li> </ul>

## SPECIFICATIONS

Lamp types controlled	<ul style="list-style-type: none"><li>• For use with CWA ballasts only</li><li>• Metal halide: 175W–1,650W</li><li>• Pulse start metal halide: 175W–1,000W</li><li>• High pressure sodium: 250W–1,000W</li></ul>
User interface	<ul style="list-style-type: none"><li>• 4 dip switches and 1 self-diagnostic pushbutton</li></ul>
Timer timeouts	<ul style="list-style-type: none"><li>• 2, 4, 8, 16, and 64 minutes timeouts</li><li>• 10-second test mode</li></ul>
Passive infrared (PIR) Coverage	<ul style="list-style-type: none"><li>• 9.6 square” of optical lens @ 2.15” focal length</li></ul>
Capacitor	<ul style="list-style-type: none"><li>• Series dim capacitor is mounted inside the LightBAT G2 module</li><li>• Capacitor value is based on ballast manufacturer specifications</li></ul>
Power requirements	<ul style="list-style-type: none"><li>• 6’ power cord with MyzerPORT™ plug</li></ul>
Operating environment	<ul style="list-style-type: none"><li>• Indoor use only</li><li>• -4°F–149°F (-20°C–65°C)</li></ul>
Construction	<ul style="list-style-type: none"><li>• Casing—rugged, high-impact, injection-molded plastic</li></ul>
Size and weight	<ul style="list-style-type: none"><li>• 13.25” x 5.5” x 2.6”</li><li>• Less than 3lbs (without dim capacitor installed)</li></ul>
Color	<ul style="list-style-type: none"><li>• Blue</li></ul>
Mounting	<ul style="list-style-type: none"><li>• ¾” threaded-pipe mounting adapter with security screw</li></ul>
Certifications	<ul style="list-style-type: none"><li>• UL and cUL listed</li></ul>
Warranty	<ul style="list-style-type: none"><li>• 5 years</li></ul>

## HOW TO ORDER

Catalog Number	Description
LB1	LightBAT G2; Supports: 175W Metal Halide / 175W, 200W Pulse Start Metal Halide
LB1EXTPI	LightBAT G2 with 4 Pin Low Voltage Interface; Supports: 175W Metal Halide / 175W, 200W Pulse Start Metal Halide
LB2	LightBAT G2; Supports: 250W, 320W, 350W, 400W Metal Halide / 250W, 320W, 350W, 400W, 450W Pulse Start Metal Halide / 250W High Pressure Sodium / 400W High Pressure Sodium (Max. operating temperature @ 55°C)
LB2EXTPI	LightBAT G2 with 4 Pin Low Voltage Interface; Supports: 250W, 320W, 350W, 400W Metal Halide / 250W, 320W, 350W, 400W, 450W Pulse Start Metal Halide / 250W High Pressure Sodium / 400W High Pressure Sodium (Maximum operating temperature @ 55°C)
LB3	LightBAT G2; Supports: 1,500W, 1,650W Metal Halide (Max. operating temp. @ 55°C) / 1,000W Metal Halide (Max. operating temp. @ 65°C) / 750W, 1,000W Pulse Start Metal Halide (Max. operating temperature @ 55°C / 600W, 1,000W High Pressure Sodium (Max. operating temperature @ 65°C)
LB3EXTPI	LightBAT G2 with 4 Pin Low Voltage Interface; Supports: 1,500W, 1,650W Metal Halide (Max. operating temp. @ 55°C) / 1,000W Metal Halide (Max. operating temp. @ 65°C) / 750W, 1,000W Pulse Start Metal Halide (Max. operating temperature @ 55°C) / 600W, 1,000W High Pressure Sodium (Max. operating temperature @ 65°C)
LBLENS15	Lens 15, Aisle Lens, 1.5 x .23
LBLENS10	Lens 10, Aisle Lens, 1.0 x .23
LBLENS07	Lens 07, Aisle Lens, .70 x .16
LBLENS0806	Lens 0806, Aisle Lens, .80 x .60
HIDCAP	LightBAT G2 Dim Capacitor



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