

HIGH BAY OCCUPANCY SENSOR MODULES FOR COLD TEMPERATURE APPLICATION

HB3X0C SERIES

Compatible with all
electronic ballasts

Multiple fixture
mounting choices

Flying leads for
easy installation



Convenient access to
digital adjustments

Operating temperature from-
40°F to 131°F (-40°C to 55°C)

Modular design with mix
and match module, lens and
accessories



DESCRIPTION

The HB300C-B and HB350C-B control lighting in high mount areas where low ambient temperature is a concern. The sensors turn lights on and off based on occupancy, and install directly to industrial T5 or T8 fixtures via surface mount, snap-in connector mounts through a 1/2" knockout with 18" leads to the back box, or optional Extender Module. The modular lenses required to operate (ordered separately) are specially designed to provide reliable coverage from a wide range of mounting heights.

OPERATION

The HB sensors utilize Passive Infrared (PIR) technology to sense occupancy. Detection occurs when the HB senses the difference between infrared energy in motion and the background space. Lighting automatically turns on when occupancy is detected. After a user-specified length of time when no occupancy is detected, lighting automatically switches off.

MODULAR DESIGN

HB sensors are comprised of a line or low voltage sensor module (HB300C-B, HB350C-B), lens (HBL1, HBL1M, HBL2, HBL3, HBL7) and any mounting accessories needed. Modularity ensures the ability of getting exactly the right voltage control and coverage pattern required. Substituting different snap-on lenses during field installation allows customers to easily adapt the HB sensor to any application, or fixture manufacturers to install the module directly onto the fixture at the plant, leaving the snap-on lens for field installation.

APPLICATIONS

The choice of interchangeable lenses for multiple coverage patterns and accessories that provide alternate installation options give Wattstopper HB sensors the flexibility to maximize energy savings in most high mount areas or warehouse applications. The special conformal coating protects the electrical circuits from corrosion due to condensation. Cold box storage facilities or covered parking structures in cold climate as low as -40°F (-40°C) can now take advantage of energy saving light fixtures.

FEATURES

- Front access to DIP switch settings for time and sensitivity adjustment
- ASIC technology reduces components and enhances reliability
- Pulse Count Processing eliminates false offs without reducing sensitivity
- Detection Signature Analysis eliminates false triggers; provides immunity to RFI and EMI
- LED indicator of occupancy detection for easy verification of coverage
- Utilizes Wattstopper/LeGrand Zero Crossing Circuitry to reduce stress on the relay and increase sensor life
- Compatible with all electronic ballasts
- No leakage to load in off mode for safety

PROJECT

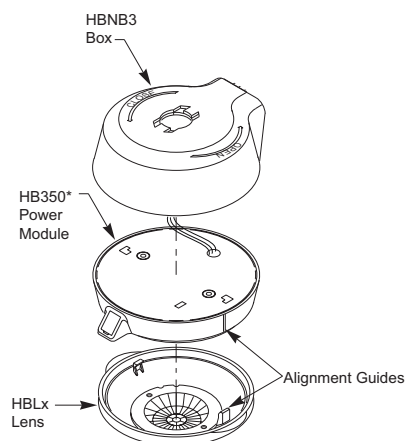
LOCATION/
TYPE

SPECIFICATIONS

- HB300C-B: 11mA @24 VDC
HB350C-B: 120/277 VAC single phase, 60 Hz
- Operating temperature from -40°F to 131°F (-40°C to 55°C)
- Time delay adjustable 15 seconds to 30 minutes
- 18" tinned wire leads, 18 AWG
- UL and CUL listed; five-year warranty Dimensions HB3XX
Module: 3.93" x .73"
(100mm x 18.6mm) Diameter x Height
- Dimensions HB3XX-B w/junction box: 3.93" x 1.91"
(100mm x 48.6mm) Diameter x Height
- Dimensions with junction box and lens HB3XX-Lx-B:
3.93" x 2.68" (99.8mm x 68mm) Diameter x Height

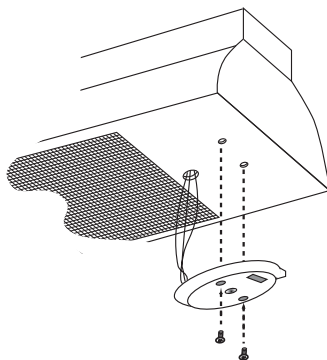
ASSEMBLY & MOUNTING

Assembly

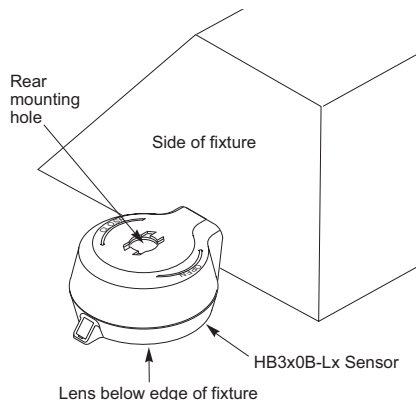


Surface Mount

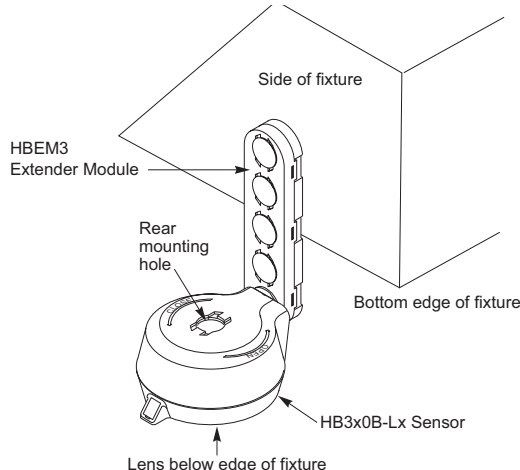
Remove back box to surface mount to bottom of fixture.



Fixture Mount

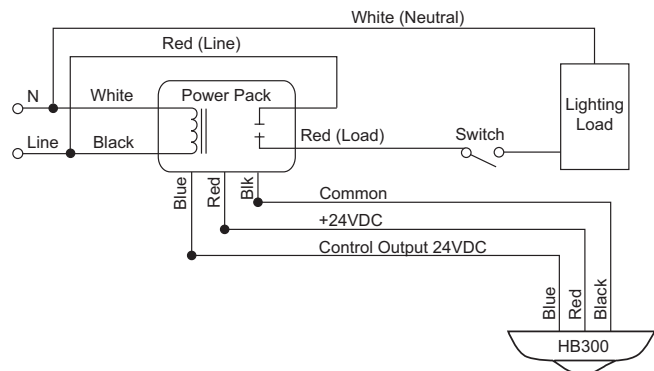


Mounting Using the Extender Module

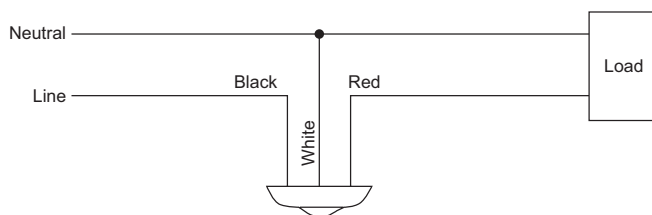


WIRING & CONNECTIONS

HB300C Low Voltage Wiring



HB350C Line Voltage Wiring



ORDERING INFORMATION

Catalog #	Description	Voltage	Coverage Area
☐ HB300C-B	High Bay Low Voltage Occupancy Sensor w/ Backbox, for cold temperatures	11mA @ 24VDC*	
☐ HB350C-B	High Bay Line Voltage Occupancy Sensor w/ Backbox, for cold temperatures	120/277 VAC	
☐ HBL1	Lens for HB3x0 sensors		Coverage @ 40' height: 60' x 20'
☐ HBL1M	Lens for HB3x0 sensors		Coverage @ 40' height: 30' x 20'
☐ HBL2	Lens for HB3x0 sensors		Coverage @ 8' height: 48' in diameter
☐ HBL3	Lens for HB3x0 sensors		Coverage @ 20' height: 40' in diameter
☐ HBL7	Lens for HB3x0 sensors		Coverage @ 40' height: 100' in diameter
☐ HBEM3	High Bay Extender Module		
☐ HBAA-1	HB Angle Fitting		
☐ BZ-50	Power Pack Note: BZ-150, BZ-200, or BZ-250 may also be used	120/277 VAC, 230/240 VAC (Single Phase), 50/60Hz	20 A ballast and tungsten or 1 hp motor

All sensors are white.

* HB300C-B Low voltage model requires a BZ series power pack.

Please note: For a complete working system, separately order the correct module for your application.
When preparing P.O., order parts as separate line items (e.g., HB3xx, HBL1, HBEM3)
Parts ship separately.