

HBC4SENSOR

HBC4 Motion Sensors and Remote Control

Product Description

The HBC4 Sensor series provides highly configurable, IP65 rated motion detection using Microwave or PIR technology. Able to be mounted up to 50ft and with an integrated daylight sensor, the HBC4SENSOR combined with the HBC4 Highbay is ideal for manufacturing, warehouse, storage and other large installation spaces.

Construction

- All polymer, fully sealed body
- IP65 rated
- Built in daylight sensor

Electrical

- Self contained relay, no power pack required
- Programmable through remote control
- Highly configurable: Detection Area, Time Delay, Daylight Threshold

Installation

- Threaded connection to fixture socket
- Max mounting height : see in depth detail for each
- Operating temperature range : -22°F ~ +140°F (-30°C ~ +60 °C)
- No field calibration required

Warranty

- 5-year limited system warranty standard
- Note: Performance is of a representative fixture. Results may vary in the field as a result of installation environment and application.

PRODUCT INFORMATION

Operating Voltage:	12±2V DC
Operating Current:	30mA
Output	Dim 0-10V
Stand-by Power:	<0.5W
Brightness:	0%-100% Quick Setting: 70% / 80% / 90% / 100%
Hold Time	10s / 1min / 10min / 30min
Daylight Threshold	10 lux / 30 lux / 50 lux / 100 lux / Disable
Stand-by Time:	1min / 30min / 60min / + ∞
Stand-by Dimming Level:	10% / 20% / 30% / 50%
Operating Temperature:	-22°F ~ +140°F (-30°C ~ +60 °C)
IP Rating:	IP65

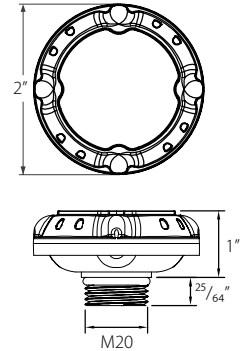
Default setting:
Brightness 100%,
Hold time: 1min
Stand-by dimming level: 20%
Stand-by Time: 1min
Sensitivity: 100%
Daylight: Disabled

Project

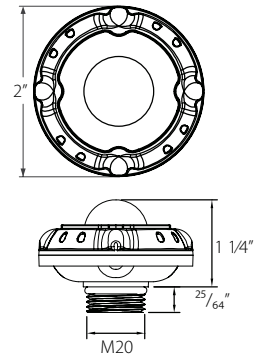
Catalog

Type

Date



HBC4SENSORMW



HBC4SENSORPIR



HBC4-REMOTE



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Ordering Information

Example: HBC4SENSORPIR

Series	Version	Accessory Type	Sensor Type
HBC	4	SENSOR	PIR
			MW
Series			
HBC4-REMOTE			

Specifications and dimensions subject to change without notice

TECHNICAL DATA : PIR (Passive Infrared Sensor)

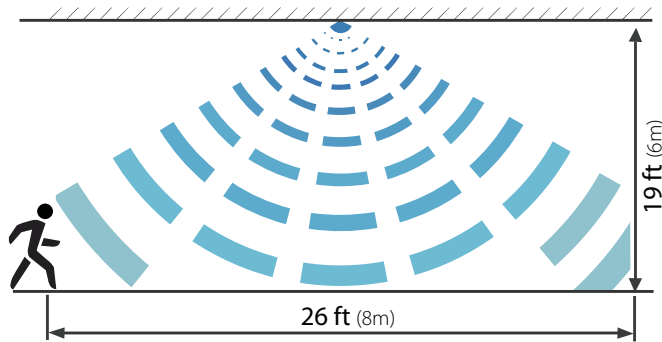
Detection Angle:	30° - 120°
Control Line:	Black/White: +12V; Purple: DIM+; Pink: GND/DIM-
Maximum Mounting Height:	19 ft (6 m)
Maximum Detection Range:	26 ft (8m)

TECHNICAL DATA: MW (Microwave Occupancy Sensor)

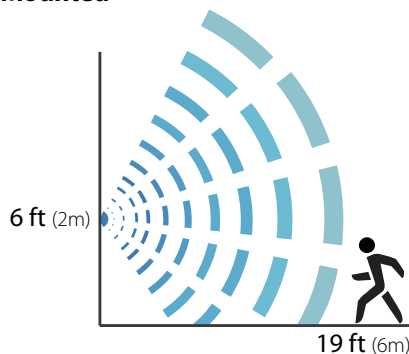
Detection Angle:	360°
Sensitivity:	20% / 50% / 75% / 100%
Control Line:	Pink: +12V; Purple: DIM+; Gray: GND/DIM-
Maximum Mounting Height:	49 ft (15 m)
Maximum Detection Range:	49 ft (15 m)
Microwave Frequency:	5.8GHz ± 75MHz
Microwave Power:	<0.5W

DETECTION COVERAGE: PIR (Passive Infrared Sensor)

Ceiling Mounted

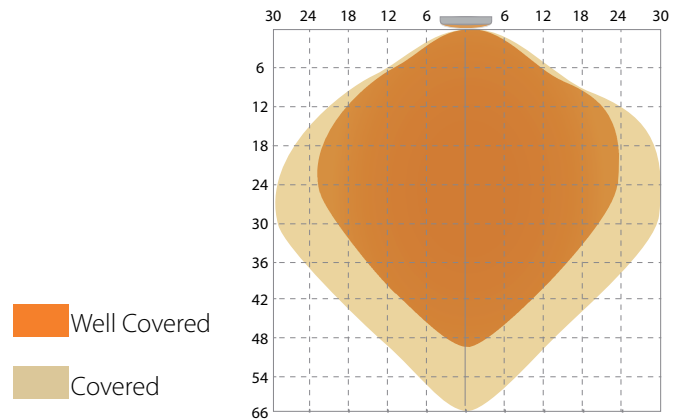


Wall Mounted

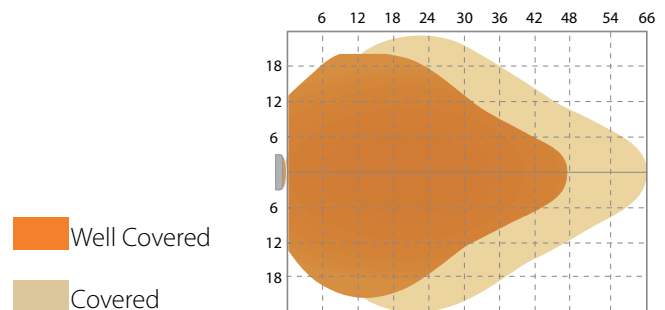


DETECTION COVERAGE: MW (Microwave Occupancy Sensor)

Ceiling Mounted



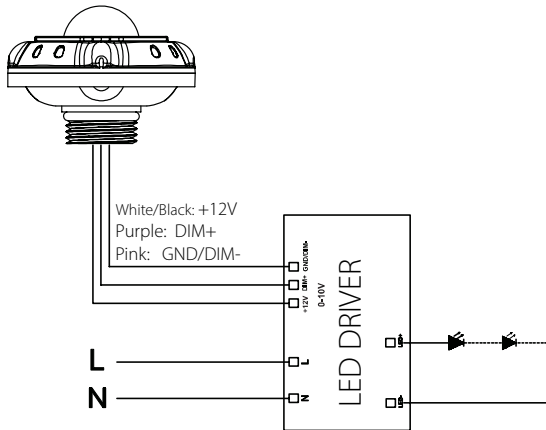
Wall Mounted



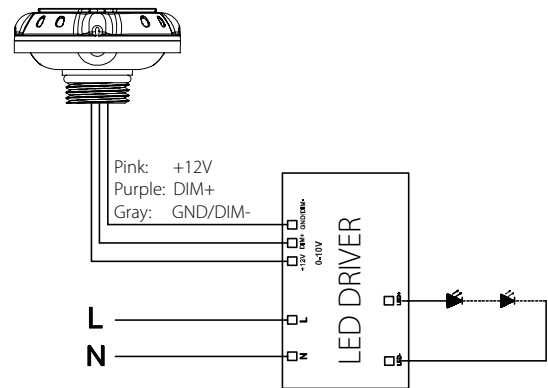
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WIRING DIAGRAM: PIR (Passive Infrared Sensor)



WIRING DIAGRAM: MW (Microwave Occupancy Sensor)

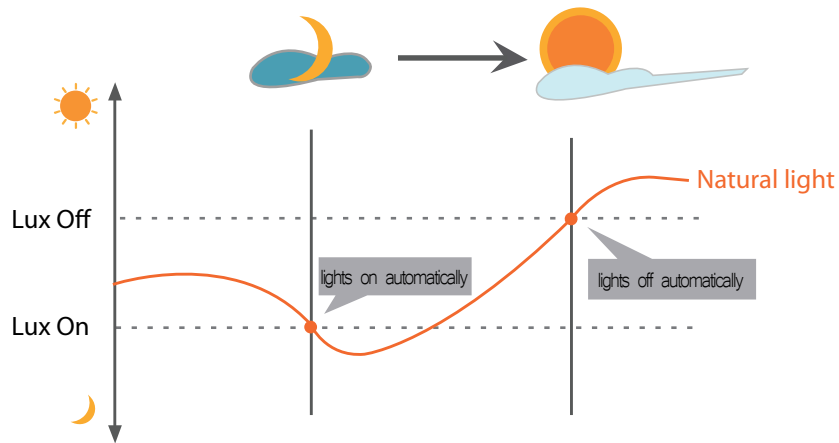


Lux On / Off

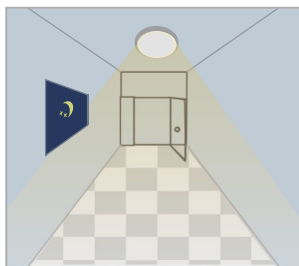
Note: Adopted dual PD technology, HBC4SENSORPIR and HBC4SENSORMW - is able to differentiate artificial light brightness from natural light after installed inside the fixture, and automatically turn off light when ambient brightness exceeds preset lux level.

Preconditions to use the lux-off function:

1. Stand-by time is + ∞;
2. Stand-by dimming level is on 10%, 20%, 30%, or 50%;
3. Daylight threshold is on 10 Lux, 30 Lux, 50 Lux or 100 Lux.



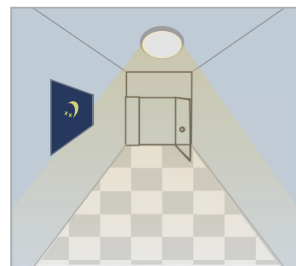
Application - Lux On / Off



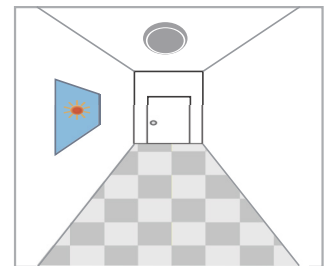
Light automatically on when ambient brightness is lower than preset lux level.



With insufficient ambient brightness, light dims to 100% when motion detected.



Light dims to stand-by level if no motion detected after hold time.



Lights off when ambient lux level is higher than preset lux amount.

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EXPRESS LIMITED WARRANTY

Subject to the exclusions contained below, NICOR Inc. (NICOR) warrants that all NICOR LED branded Solid State Lighting products made by NICOR to be free from defects in materials and workmanship, under normal consumer usage for a period of 5 years from date of purchase. This limited warranty is a consumer's exclusive remedy, and applies only to new products purchased and used by consumers in the United States or Canada, which are accompanied by this written warranty.

This limited warranty extends only to the first consumer purchaser, and is not transferable. A consumer wishing to invoke the terms of this warranty must first obtain a RGA number within 30 days of discovery of the defect, and return the product to NICOR for inspection. Once verified to be covered by this limited warranty, NICOR will, at its discretion, repair, replace or refund the purchase price of any product that does not conform to this limited warranty.

This limited warranty covers only defects in material and workmanship associated with normal installation and intended use of the product.

THIS LIMITED WARRANTY DOES NOT COVER THE FOLLOWING:

- Defects or damages resulting from improper operation, storage, misuse or abuse, accident or neglect;
- Defects or damages resulting from improper service, testing, adjustment, installation, maintenance, alteration, connection to out-of-specification electrical service, corrosive or damp environments, or connection to incompatible equipment or devices (e.g., connecting non-dimmable lighting products to dimmers);
- Damage which occurs in transit; and
- Labor or other charges or expenses associated with the removal, repair, or re-installation of defective or replacement products.

ANY IMPLIED WARRANTIES, INCLUDING WITHOUT LIMITATION, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE SHALL BE LIMITED TO THE DURATION OF THIS LIMITED WARRANTY, OTHERWISE THE REPAIR, REPLACEMENT OR REFUND AS PROVIDED UNDER THIS EXPRESS LIMITED WARRANTY IS THE EXCLUSIVE REMEDY OF THE CONSUMER, AND IS PROVIDED IN LIEU OF ALL OTHER WARRANTIES, EXPRESS OR IMPLIED. IN NO EVENT SHALL NICOR BE LIABLE, WHETHER IN CONTRACT OR IN TORT (INCLUDING NEGLIGENCE) FOR DAMAGES IN EXCESS OF THE PURCHASE PRICE OF THE PRODUCT, OR FOR ANY INDIRECT, INCIDENTAL, SPECIAL OR CONSEQUENTIAL DAMAGES OF ANY KIND, OR LOSS OF REVENUE OR PROFITS, LOSS OF BUSINESS OR OTHER FINANCIAL LOSS ARISING OUT OF OR IN CONNECTION WITH THE ABILITY OR INABILITY TO USE THE PRODUCT TO THE FULL EXTENT THESE DAMAGES MAY BE DISCLAIMED BY LAW.

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