

# H12V2SENSOR

H12V2 Motion Sensors PIR & MW

## Product Description

The H12V2 series of sensors 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, an H12V2SENSOR combined with a NICOR LED Highbay or Linear fixture 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
- Adjustable dials on sensor body
- Programmable through H12V2REMOTE (sold separately) allows additional settings
- Highly configurable: Detection Area, Time Delay, Daylight Threshold

### Installation

- Threaded connection to fixture socket
- Max mounting height : 50ft
- Operating temperature range : -22°F ~ +158°F (-30°C ~ +70 °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.

Project

Catalog

Type

Date



**H12V2SENSORMW**



**H12V2SENSORPIR**

**H12V2SENSOR**

PIR or MW Sensor for  
NICOR Highbays



# H12V2SENSOR

## H12V2 Motion Sensors PIR & MW

### Ordering Information

Example: H12V2SENSORPIR

Series	Version	Accessory Type	Sensor Type
H12V	2	SENSOR	PIR
			MW

Specifications and dimensions subject to change without notice

### Fixture Compatibility

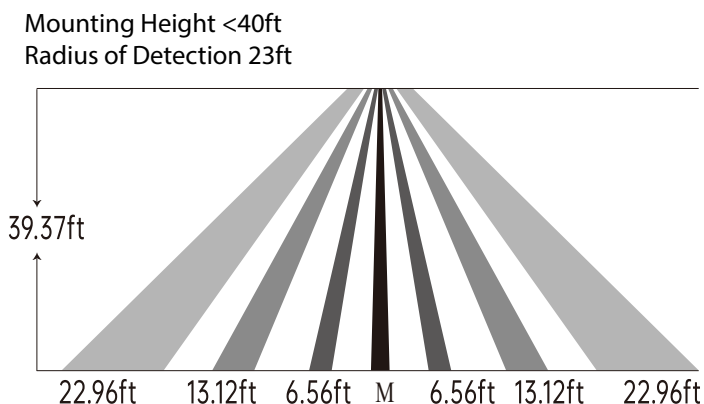
HML : 1S / 2 / 3                      LSL1 \*  
 HBL : 3 / 4 \*                          VT : 3 / 4 \*

\* Required H12V Socket and H12V Adjustable Arm

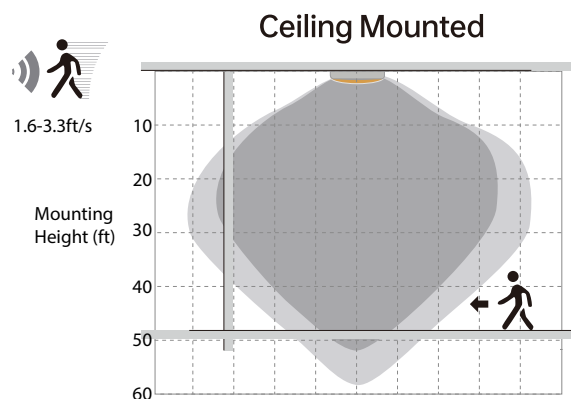
### PRODUCT INFORMATION

Operating Voltage	12-24VDC
Signal	On/Off, Dim 0-10V
Stand-by Power	<30mA
Detection Area	Remote Control : 20%/50%/75%/100%
Installation Height	15m/50ft max
Hold Time	Remote Control: 5s/30s/1min/3min/5min/10min/20min/30min Rotating Switch: 5s/1min/5min/10min
Daylight Threshold	Remote Control: 2 lux/10 lux/ 30 lux/50 lux/80 lux/120 lux/200 lux/250 lux/300 lux/ 350 lux/400 lux/Disable
Stand-by Time:	Remote Control: 0s/10s/30s/1min/5min/ 10min/30min/60min/+∞
Stand-by Dimming Level:	Remote Control: 10%/20%/30%/50% Rotating Switch: 0%/10%/20%/30%
Dusk/Dawn/Photocell	Daylight threshold as 30 lux/50 lux/80 lux/120 lux/200 lux/250 lux/300 lux/ 350 lux/400 lux Standby period as +∞ Standby dimming level as 10%/20%/30%
Operating Temperature:	-22°F ~ +158°F (-30°C ~ +70 °C)
IP Rating:	IP65
Default Setting	Sensitivity: 100% Hold time: 1 min Daylight Threshold: Disabled Standby Period: 1 min Standby Dimming: 20%

### DETECTION COVERAGE: PIR (Passive Infrared Sensor)



### DETECTION COVERAGE: MW (Microwave Occupancy Sensor)



This image shows the maximum distance at the highest mounting height with 100% sensitivity

Well Covered      Covered

# H12V2SENSOR

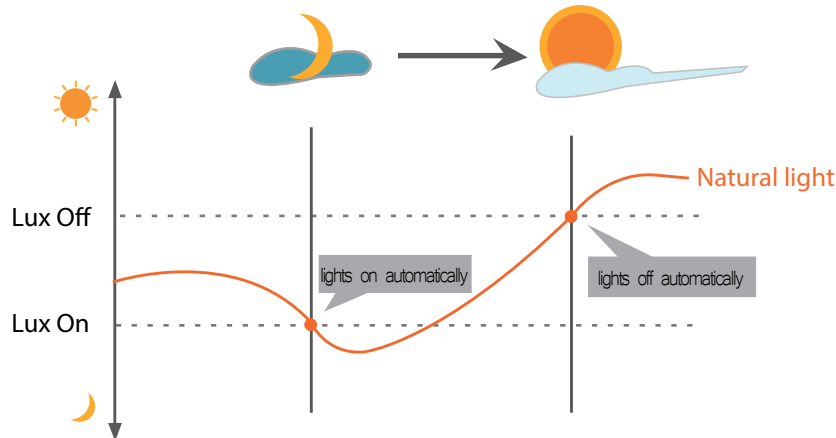
## H12V2 Motion Sensors PIR & MW

### Lux On / Off

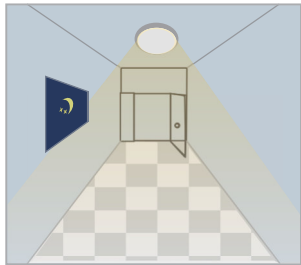
Note: Adopted dual PD technology, HBC5SENSORPIR and HBC5SENSORMW - is able to differentiate artificial light brightness from natural light after installed inside the fixture, and automatically turn off light when ambient brightness exceeds preset lux level.

Preconditions to use the lux-off function:

1. Stand-by time is  $+\infty$ ;
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.



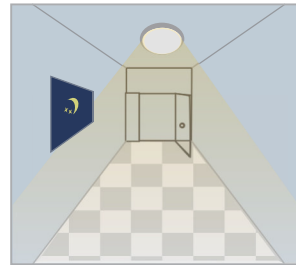
### Application - Lux On / Off



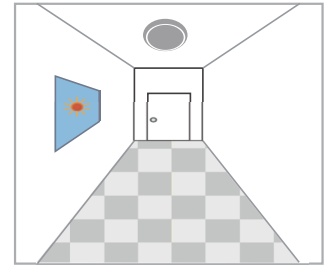
Light automatically on when ambient brightness is lower than preset lux level.



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.

#### 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.

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