

OVERVIEW

The nLight AIR rSBOR outdoor pole and fixture mount motion and photo sensor that utilizes Passive Infrared (PIR) detection technology into a line voltage motion sensor. Designed to mount directly through a 1/2" knockout (7/8" hole) in a light fixture or pole, the rSBOR utilizes 100% Digital Passive Infrared (PIR) technology that is tuned for walking size motion while preventing false tripping from the environment. The rSBOR has a dual radio that allows it to communicate wirelessly to other nLight AIR devices to enable control strategies like group response to motion, on/off control in response to daylight, and on/off by switch.

FEATURES

- Wireless communications enables simple retrofits - no communication wires to pull between devices
- Simple retrofit on existing 0-10V fixtures
- Devices intercommunicate to provide group-response to motion and on/off response to daylight conditions.
- Fully dimmable to provide the right amount of light for the application and to optimize energy savings.
- Flexible mounting heights and wide coverage areas for various motion detection applications
- Fully compatible with other nLight AIR devices on the site
- Easy to integrate into the nLight Eclipse which provides time-based scheduling, Bacnet control, and remote control capabilities
- Advanced wireless security measures provide peace-of-mind
- Flexible sensor time delays and light levels for response to motion and response to natural light

Warranty

Five -year limited warranty. Complete warranty terms located at:

www.acuitybrands.com/resources/terms-and-conditions

Note: Actual performance may differ as a result of end-user environment and application.

Specifications subject to change without notice

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*nLight AIR
rSBOR
Outdoor Pole/ Fixture
Mount Sensor*



Note: Sensor may appear different from above photo depending on selected body and bracket type.



ORDERING INFORMATION

rSBOR		Example: RSBOR 10 HVOLT EB1 WH G2				
Series	Mounting Height	Voltage	Body/ Bracket	Color	Generation	Pack Qty
rSBOR nLight AIR Outdoor Pole/ Fixture Mount Sensor	6 High Mount (15-30 ft)	[blank] 120-277 VAC (MVOLT)	[blank] Short extension, low back	WH White	G2 Generation 2 compatibility	[blank] Single J40 40 Pack
	10 Low Mount (8-15 ft)	HVOLT 347-480 VAC	EB1 Short extension, high back	BK Black		
	40 High Mount Site/ Area (40 ft)	EB2 Long extension, low back	BZ Dark Bronze			
		EB3 Long extension, high back	NA Natural Aluminum			
		EB4 Medium extension, low back				
	EB5 Medium extension, high back					

SPECIFICATIONS

Size: Bracket Dependent
Weight: 9.6 oz
Mounting: 1/2" knockout (7/8" hole)
Mounting Height: rSBOR 10: 8 -15 ft (2.44-4.57 m)
rSBOR 6: 15-30 ft (4.57-9.14 m)
rSBOR 40: 40 ft (12.19m)
Maximum Load: 800 W @ 120 VAC,
1200 W @ 277 VAC,
1000 W @ 208 VAC,
1500 W @ 347 VAC,
1200 W @ 240 VAC,
2160 W @ 480 VAC
Motor Load: 1/4 HP
Dimming Load: Sinks <20 mA (0-10 VDC LED Drivers / Ballasts)
P66 Rated and ROHS compliant
Operating Voltages: 120-277VAC or 347VAC/480VAC
Frequency: 50/60Hz
Dimming: Load Sinks 6 mA (0-10 VDC LED Drivers)
Operating Temperature -40°C to 65°C ambient
Radio Frequency Dual Radio: 900MHz & 2.4GHz
RF: Transmit Power 900Mhz: +20dBm; 2.4GHz: +10.4 dBm
Wireless: Standard 900MHz: IEEE 802.15.4-based
2.4GHz: Version 4.0+ of the Bluetooth
specification Wireless Range Up to 1,000ft.
(~305m) in free space

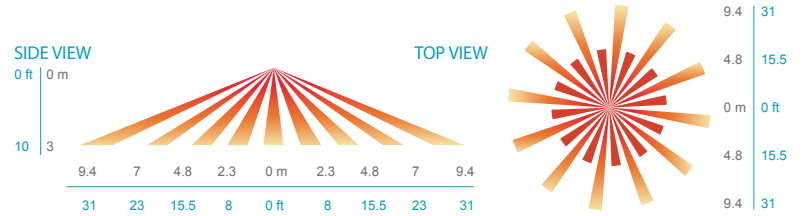
Out-Of-Box Functionality

Occupancy Control	Enabled
Microphonics	Disabled
Occupancy Time Delay	7.5 Minutes
Occupied Dim Level	100%
Unoccupied Dim Level	30%
Idle Time Until Dim	5 Minutes
Daylighting Control	Enabled
Daylighting Set Point	5 fc
Daylighting Transition On Time	45 Seconds
Daylighting Transition Off Time	5 Minutes

COVERAGE PATTERN

Parking Garage / Low Mount Applications

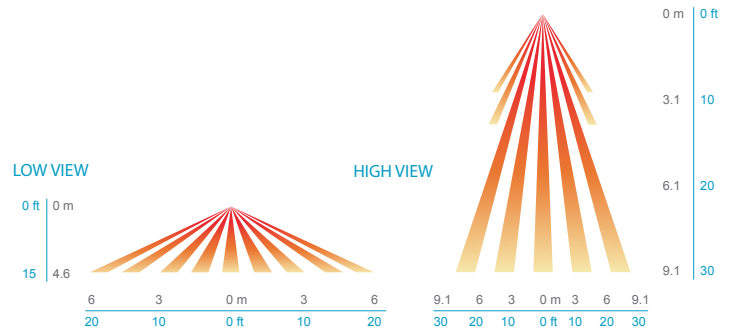
In general, the rSBOR 10 is recommended for 8-15 ft (2.44-4.57 m) mounting and provides a coverage area radius for walking motion of greater than 2x the mounting height. When mounted 10 ft high, for example, on a luminaire in a parking garage, the sensor's coverage for walking motion extends out 30 ft in a 360° pattern. This closely matches the lighting distribution of a typical parking garage luminaire. When mounted to a light pole, for example, in a parking lot or along a path, the sensor provides 270° of coverage (90° is blocked by the pole). Note, walking askew to sensor typically results in earlier detection than walking directly at sensor.



Coverage Pattern of Low Mount Lens Option (rSBOR 10)

Site & Area Lighting / High Mount Applications

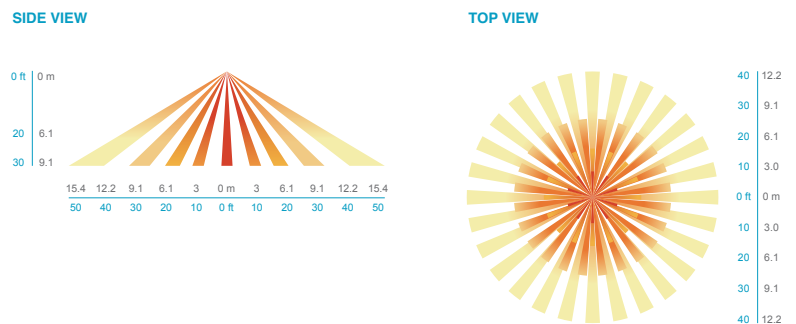
The rSBOR 6 is intended for higher pole mount applications, between 15-30 ft (4.57-9.14 m), and provides a coverage area radius for walking motion of 15-20 ft (4.57-6.10 m). When mounted to a pole the sensor provides 270° of coverage (90° is blocked by the pole). Higher mounting (e.g. 40 ft or 12.20 m) may result in shorter detection range.



Coverage Pattern of High Mount Lens Option (rSBOR 6)

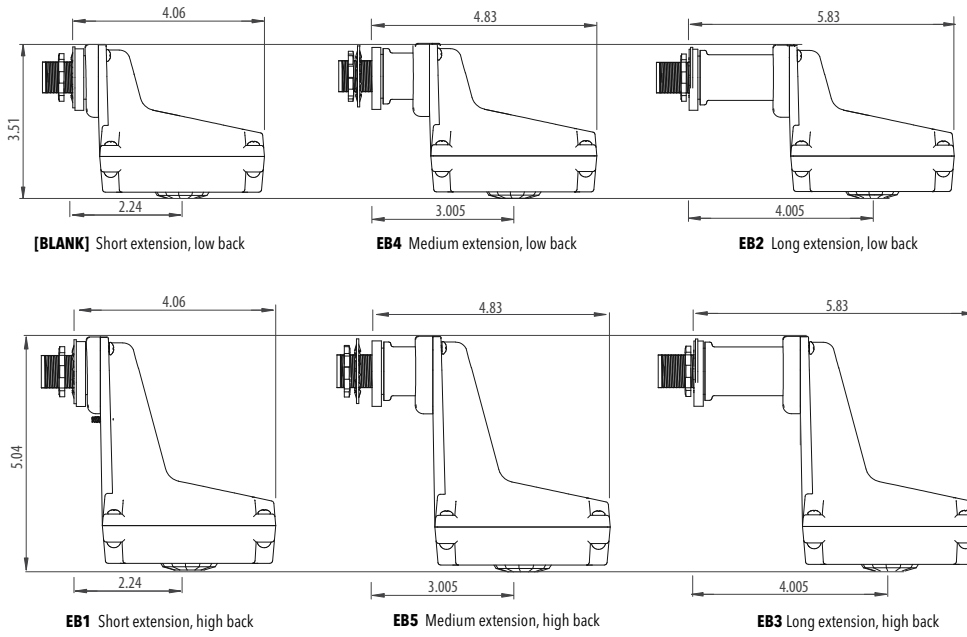
Site & Area Lighting / High Mount Applications

The rSBOR 40 is intended for the highest of mounting heights - up to 40ft. It provides a coverage area radius for walking motion of 50ft. When mounted to a pole, the sensor provides 270 degrees of coverage.



Coverage Pattern of High Mount Site/ Area Lens Option (rSBOR 40)

BODY/BRACKET OPTIONS



INSTALLATION INSTRUCTIONS

- Sensor has a 1/2" chase nipple that enables mounting through a knockout/hole in a junction box, fixture, or pole.

MOUNTING SPECIFICATIONS

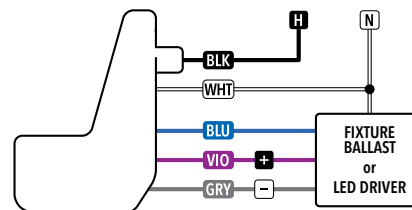
- Mounts through 7/8" diameter hole
- Requires access on opposite or adjacent side to secure mounting nut
- Required mounting distance from light source may vary by sensor functionality and luminaire design
- See specification drawing for details



WIRING*** (DO NOT WIRE HOT)

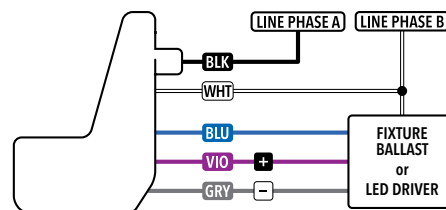
WIRING TO SINGLE PHASE POWER (120/277/347 VAC)

- BLACK* 120/277 VAC Input
- BLUE* Switched Line Voltage Output to Luminaire
- WHITE Neutral
- VIOLET (w/ D option) Low Voltage Dim Output (0-10 VDC)
- GRAY (w/ D option) Low Voltage Common



WIRING TO 2-PHASE POWER* (208/240/480 VAC**)

- BLACK* 208/240 VAC Phase A Input
- BLUE* Switched Line Voltage Output to Luminaire
- WHITE Phase B of 208/240/480 VAC Input
- VIOLET (w/ D option) Low Voltage Dim Output (0-10 VDC)
- GRAY (w/ D option) Low Voltage Common



*Safety Note: only one line phase is being switched

**480 VAC for reference only - Factory install required

***Device must be permanently energized