rSBOR Sensor
Outdoor Pole/Fixture Mount Motion Sensor
360° COVERAGE • LINE VOLTAGE • IP66 RATED

SPECIFICATIONS (rSBOR)

Electrical Specifications

Input Ratings
- rSBOR 120-277VAC, 50/60 Hz 2.5W
- rSBOR HVOLT 347-480VAC, 50/60 Hz 2.5W

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

Dimming Load
- Sinks <10mA (0-10 VDC LED Drivers/Ballasts)

Minimum Load
- None

Class Rating
- 0-10V Dimming can be wired Class 1 or 2

Mechanical

Mounting
- 1/2" Knockout (7/8" hole)

Mounting Height
- rSBOR 10: 8-15 ft (2.44-4.57m)
- rSBOR 6: 15-30 ft (4.57-9.14m)
- rSBOR 40: 30-40 ft (9.14-12.192m)

Connection Type
- Line and Low Voltage Leads

Environmental

Warranted Operating Temperature
- -40º to 149º F (-40º to 65º C)

Standards/ Ratings
- RoHS, IP66, UL 916, UL 924 (optional), FCC / IC / IFETEL

BASE MODELS

- rSBOR 6: On/Off/Dim, Photocell, Passive Infrared (PIR) - High Mount 360° Coverage
- rSBOR 10: On/Off/Dim, Photocell, Passive Infrared (PIR) - Low Mount 360° Coverage
- rSBOR 40: On/Off/Dim, Photocell, Passive Infrared (PIR) - High Mount Site/Area 360° Coverage
- rSBOR 6 HVOLT: On/Off/Dim, Photocell, Passive Infrared (PIR), 347-480 VAC - High Mount 360° Coverage
- rSBOR 10 HVOLT: On/Off/Dim, Photocell, Passive Infrared (PIR), 347-480 VAC - Low Mount 360° Coverage
- rSBOR 40 HVOLT: On/Off/Dim, Photocell, Passive Infrared (PIR), 347-480 VAC - High Mount Site/Area 360° Coverage

IMPORTANT SAFEGUARDS

WHEN USING ELECTRICAL EQUIPMENT, BASIC SAFETY PRECAUTIONS SHOULD ALWAYS BE FOLLOWED INCLUDING THE FOLLOWING:

- DO NOT MOUNT NEAR GAS OR ELECTRIC HEATERS.
- EQUIPMENT SHOULD BE MOUNTED IN LOCATIONS AND AT HEIGHTS WHERE IT WILL NOT READILY BE SUBJECTED TO TAMPERING BY UNAUTHORIZED PERSONNEL.
- THE USE OF ACCESSORY EQUIPMENT NOT RECOMMENDED BY THE MANUFACTURER MAY CAUSE AN UNSAFE CONDITION.

READ AND FOLLOW ALL SAFETY INSTRUCTIONS!
SAVE THESE INSTRUCTIONS AND DELIVER TO OWNER AFTER INSTALLATION

WARRANTY

5-year limited warranty.

Full warranty terms located at: www.acuitybrands.com/CustomerResources/Terms_and_conditions.aspx

Note: Specifications subject to change without notice. Actual performance may differ as a result of end user environment and application.

EXPANDING THE BOUNDARIES OF LIGHTING

CAUTION: RISK OF PRODUCT DAMAGE

- Do not exceed maximum wattage, ratings, or published operation conditions of product.
- Do not tamper with contacts.
- Do not modify the product.
- Do not change or alter internal wiring or installation circuitry.
- Do not use product for anything other than its intended use.

WARNING - RISK OF ELECTRIC SHOCK

- Do not exceed maximum wattage, ratings, or published operation conditions of product.
- Do not overload.
- Follow all manufacturer’s warnings, recommendations and restrictions to ensure proper operation of product.

WARNING - CAUTION - RISK OF INJURY

- Wear gloves and safety glasses at all times when installing, servicing or performing maintenance.
**WIRING (DO NOT WIRE HOT)**

### WIRING TO SINGLE PHASE POWER (120/277/347 VAC)
- **BLACK**: 120/277/347 VAC Input
- **BLUE**: Switched Line Voltage Output to Luminaire
- **WHITE**: Neutral
- **VIOLET**: Low Voltage Dim Output (0-10 VDC)
- **PINK**: Low Voltage Common

### WIRING TO 2-PHASE POWER* (208/240/480 VAC**)
- **BLACK**: 208/240/480 VAC Phase A Input
- **BLUE**: Switched Line Voltage Output to Luminaire
- **WHITE**: Phase B of 208/240/480 VAC Input
- **VIOLET**: Low Voltage Dim Output (0-10 VDC)
- **PINK**: Low Voltage Common

*Safety Note: only one line phase is being switched
**480 VAC for reference only - Factory install required

### WIRING TO EMERGENCY (-EM) UNITS
- **BLACK**: 120/277 Input Emergency Hot
- **BLUE**: Switched Line Voltage Output to Luminaire
- **WHITE**: Emergency Neutral
- **VIOLET**: Low Voltage Dim Output (0-10 VDC)
- **PINK**: Low Voltage Common

UL924 Sequence of Operation (EM Option):
For 90 minutes following any complete AC power interruption >30 ms:
- Relay is closed and 0-10V dimming is at high end trim level
- Device ignores wireless lighting control commands
- If another nLight AIR device in the nLight AIR group (as defined by Clairity Pro) is on normal power, and has its power restored prior to the 90-minute timeout, the “EM” device will exit this override state and return to normal operation. This is accomplished by having a normal power device send an “exit EM” message to the “EM” device
- Devices that will send the “exit EM” command when normal power is present
  - Dimming Power Pack Devices (rPP20 D/DS)
  - ER Non-Dimming and Dimming Power Pack Devices (rPP20 D/DS ER)
  - Other nLight AIR Non-“EM” Devices (rLSXR, rSBOR, rSDGR, rIO, rES7, rMSOD)
- Devices that will not send the “exit EM” command when normal power is present
  - Non-Dimming Power Pack Devices (rPP20)
  - Other nLight AIR “EM” Devices (rPP20 EM, rLSXR EM, rSBOR EM, rSDGR EM, rIO EM, rES7 EM, rMSOD EM)
  - Ceiling Mount Sensors (rCMS)
  - Wall Switches (rPODB, rPODL)
  - nLight Air Adapter (rECYD)
- Upon power up, “EM” devices will be at high trim setting for 90 minutes. During commissioning with Clairity Pro, the device will exit this override when a device is identified or added to the grid.

For further troubleshooting guidance, please contact the Controls Technical Support Team

**1(800)-535-2465**

Contains FCC ID: 2ADCB-RMODIT or 2ADCB-RMODIT3
Contains IC: 6715C-RMODIT or 6715C-RMODIT3
Contains IFETEL: RCPRBM18-1879 or RCPNLLN20-2057

**Wiring to Single Phase Power**

**Wiring to 2-Phase Power**

**Wiring to Emergency (-EM) Units**

**Out of Box Operation**

- **Occupancy Control**: Enabled
- **Occupied Dim Level**: 100%
- **Unoccupied Time Until Dim**: 7.5 Minutes
- **Unoccupied Dim Level**: 30%
- **Dimming Fade Rate Time**: 5 Minutes
- **Photocontrol**: Enabled
- **Photocontrol Set Point**: 5 ft
- **Photocontrol Transition On Time**: 45 Seconds
- **Photocontrol Transition Off Time**: 5 Minutes

**Installation Instructions**

- Sensor has a 1/2” chase nipple that enables mounting through a knockout/hole in a junction box, fixture, or pole.
- To mount, push the unit’s threaded chase nipple through a 1/2” knockout (7/8” hole) in a fixture.
- When mounting to a pole, a 7/8” unthreaded hole should be located 12” below luminaire and should be accessible via an adjacent or opposite side hand hole.
- A nut and washer on the chase nipple will secure the sensor.

**Photo**

Note: Sensor may appear different than above photo depending on selected lens type.