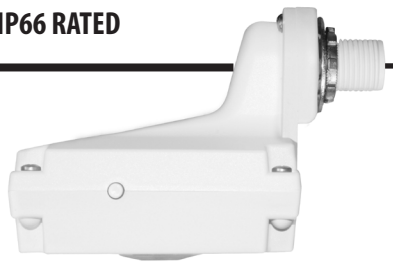
AcuityControls

Sensor Switch

Outdoor Pole/Fixture Mount Motion Sensor

360° COVERAGE • LINE VOLTAGE • IP66 RATED



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

SPECIFICATIONS

MOUNTING: 1/2" knockout (7/8" hole)
MOUNTING HEIGHT:
- SBOR 10 ODP: 8 -15 ft (2.44-4.57 m)
- SBOR 6 ODP: 15-30 ft (4.57-9.14 m)

ENVIRONMENTAL SPECS
- OPERATING TEMP: -40º to 160º F (-40º to 71º C)
- IP66 RATED
- SILICONE FREE/ROHS COMPLIANT

ELECTRICAL SPECS
- 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
- MINIMUM LOAD: None
- MOTOR LOAD: 1/4 HP
- FREQUENCY: 50/60 Hz
- DIMMING LOAD: Sinks < 20mA (0-10 VDC LED Drivers / Ballasts)

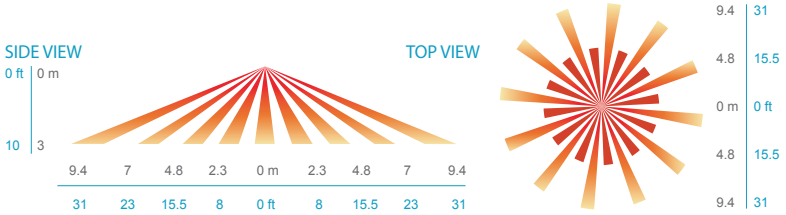
Base Model #s

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

COVERAGE PATTERNS

PARKING GARAGE / LOW MOUNT APPLICATIONS

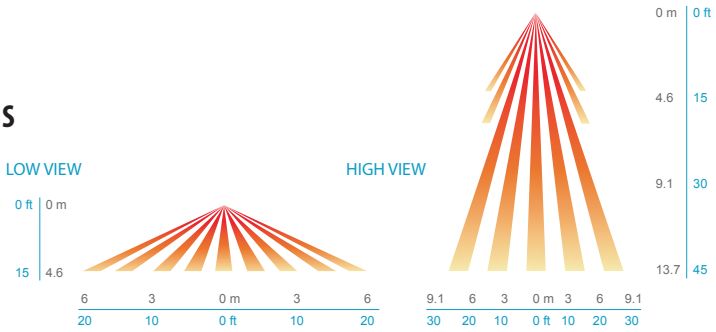
In general, the SBOR 10 ODP is recommended for 8-15 ft (2.44-4.57 m) mounting and provides a coverage area radius for walking motion of greater than 2x the mounting height. The SBOR 10 ODP is ideal for parking garage and low pole mount applications. When mounted 10 ft high, for example, on a luminaire in a parking garage, the sensor's coverage for walking motion extends out 30 ft in a 360º 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 270º of coverage (90º 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 (SBOR 10 ODP)

SITE & AREA LIGHTING / HIGH MOUNT APPLICATIONS

The SBOR 6 ODP 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 270º of coverage (90º is blocked by the pole).



Coverage Pattern of High Mount Lens Option (SBOR 6 ODP)

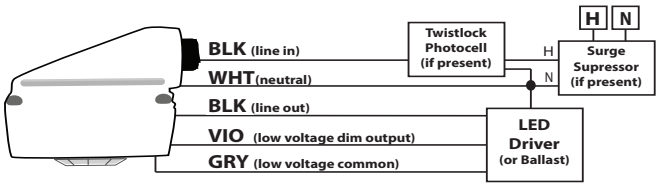
INSTALLATION INSTRUCTIONS

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

WIRING

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

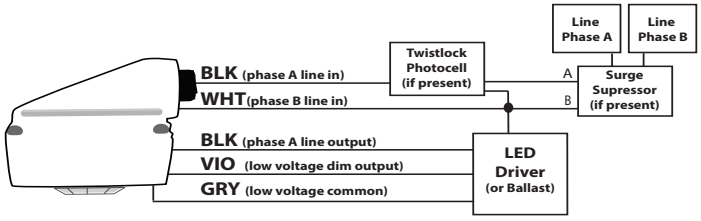
- **BLACK*** - 120/277 VAC Input (**RED** wire for 347 VAC - requires HVOLT option)
- **BLACK*** - Switched Line Voltage Output to Luminaire (**RED** wire for 347 VAC - requires HVOLT option)
- **WHITE** - Neutral
- **VIOLET** - Low Voltage Dim Output (0-10 VDC)
- **GRAY** - Low Voltage Common



***BLACK wires can be reversed**

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

- **BLACK*** - 208/240 VAC Phase A Input (**RED** wire for 480 VAC - requires HVOLT option)
- **BLACK*** - Switched Line Voltage Output to Luminaire (**RED** wire for 480 VAC - requires HVOLT option)
- **WHITE** - Phase B of 208/240/480 VAC Input
- **VIOLET** - Low Voltage Dim Output (0-10 VDC)
- **GRAY** - Low Voltage Common



***BLACK wires can be reversed**

****Safety Note: only one line phase is being switched**

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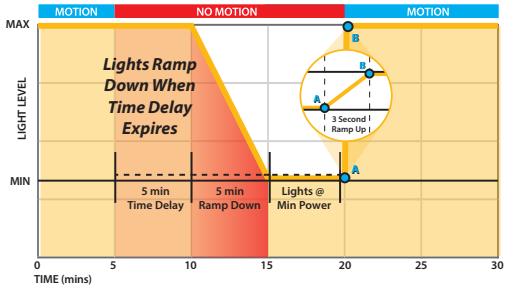
Sensor Switch

Default Sequence of Operation

When time delay expires, lights ramp down to minimum over 5 min



PROGRAMMING INSTRUCTIONS

Please read all 3 steps before programming

1. Enter a programming function by pressing button the number of times as the desired function number from the tables below (e.g., press twice for function 2, occupancy time delay).
2. LED will flash back the selected function's current setting (e.g., 5 flashes for 10 minute time delay). To change setting, proceed to step 3 before flash back sequence repeats 3 times. To exit the current function or to change to a different function, wait for sequence to repeat 3 times then return to step 1.
3. Press button the number of times indicated in the particular function's detailed table for the NEW desired setting (e.g., press 3 times for 5 min). As confirmation of setting change, LED flashes back the NEW setting 3 times before exiting.

DETAILED FUNCTION TABLES

2 = Motion Time Delay

The length of time the motion sensor will keep the lights on and at maximum level after it last detects motion

1 - 30 sec	**4** - 7.5 min	**7** - 15.0 min
2 - 2.5 min	**5** - 10.0 min	**8** - 17.5 min
3 - 5.0 min*	**6** - 12.5 min	**9** - 20.0 min

4 = Test & Blink-Back Mode

1 - Blink Light & LED*	**5** - Blink Set-Point [1]
2 - Blink LED only	**6** - Test Mode [2]
4 - Auto-Setpoint	

[1] The LED will blink back the ten's digit, then pause, then blink back the one's digit. For a "0" the LED will blink very rapidly. The sequence is repeated 3 times.

[2] Test Mode will set Occupancy Time Delay to 30 sec, and shorten all photocell transitions and dimming rates. Mode will expire after 10 min or if function 4 is set back to previous setting.

5 = Ten's Digit of Set-Point

The ten's digit of the target light level that is to be maintained by the device (in foot-candles)

1 - 10 fc	**4** - 40 fc	**7** - 200 fc
2 - 20 fc	**5** - 50 fc	**10** - 0 fc*
3 - 30 fc	**6** - 100 fc	

6 = One's Digit of Set-Point

The one's digit of the target light level that is to be maintained by the device (in foot-candles)

1 - 1 fc	**4** - 4 fc	**7** - 7 fc	**10** - 0 fc
2 - 2 fc	**5** - 5 fc*	**8** - 8 fc	
3 - 3 fc	**6** - 6 fc	**9** - 9 fc	

7 = Sunlight Discount Factor

Value used to improve the tracking accuracy of a photocell during periods of high daylight. Decreasing the value will lower the controlled level of the lights.

1 - x/1*	**4** - x/4	**7** - x/7	**10** - x/10
2 - x/2	**5** - x/5	**8** - x/8	
3 - x/3	**6** - x/6	**9** - x/9	

8 = Incremental Set-Point Adjustment

Alters the target light level that is to be maintained by the device (in foot-candles)

1 - Decrease 1 fc	**2** - Increase 1 fc

9 = Restore Factory Defaults

Returns the sensor to its default settings

1 - Keep Current*	**2** - Restore Factory Defaults

11 = Photocell Operation

Indicates what mode of photocell operation, if any, is enabled

1 - High/Off*	**2** - High/Low	**3** - Disabled

12 = Ramp Up Rate

Time period from when motion is detected to when lights are at high trim level

1 - Instant	**4** - 3 sec*	**7** - 15 sec	**10** - 1 min
2 - 1 sec	**5** - 5 sec	**8** - 20 sec	
3 - 2 sec	**6** - 10 sec	**9** - 30 sec	

13 = Fade Down Rate

Time period from when motion time delay expires to when lights are at low trim level

1 - Instant	**4** - 5 min*	**7** - 15 min	**10** - 1 hr
2 - 30 sec	**5** - 7.5 min	**8** - 20 min	
3 - 2.5 min	**6** - 10 min	**9** - 30 min	

15 = Maximum Level (High Trim)

The output level (0-10 VDC) of the sensor after motion is detected

1 - Off	**4** - 3 Volts	**7** - 6 Volts	**10** - 9 Volts
2 - 1 Volt	**5** - 4 Volts	**8** - 7 Volts	**11** - 10 Volts*
3 - 2 Volts	**6** - 5 Volts	**9** - 8 Volts	

16 = Minimum Level (Low Trim)[3]

The output level (0-10 VDC) of the sensor after the fade down time has elapsed

1 - Off	**4** - 3 Volts	**7** - 6 Volts	**10** - 9 Volts
2 - 1 Volt	**5** - 4 Volts	**8** - 7 Volts	**11** - 10 Volts
3 - 2 Volts	**6** - 5 Volts	**9** - 8 Volts	

[3] Default Setting is determined by last digits in unit model number eg. SBOR 10 ODP WH 3V = 3 Volts

21 = Photocell Transition Off Time

The time period after the photocell measures a light level above the set-point (plus the deadband) that it will turn lights off (or dim them to min level)

1 - 45 sec	**3** - 5 min*	**5** - 15 min	**7** - 25 min
2 - 2 min	**4** - 10 min	**6** - 20 min	

22 = Photocell Transition On Time

The time period after the photocell measures a light level below the set-point that it will turn lights on

1 - 45 sec*	**3** - 5 min	**5** - 15 min	**7** - 25 min
2 - 2 min	**4** - 10 min	**6** - 20 min	

*** DEFAULT SETTING**

AcuityBrands.

Expanding the boundaries of lighting™

c UL US LISTED

TITLE 20/24

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.

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

- To reduce the risk of death, personal injury or property damage from fire, electric shock, falling parts, cuts/abrasions, and other hazards please read all warnings and instructions included with and on the fixture box and all fixture labels.
- Before installing, servicing, or performing routine maintenance upon this equipment, follow these general precautions.
- Installation and service should be performed by a qualified licensed electrician.
- Maintenance should be performed by qualified person(s) familiar with the products' construction & operation & any hazards involved. Regular maintenance programs recommended.
- **DO NOT INSTALL DAMAGED PRODUCT!** This product has been properly packed so that no parts should have been damaged during transit. Inspect to confirm. Any part damaged or broken during or after assembly should be replaced.

CAUTION: RISK OF PRODUCT DAMAGE

- √ Electrostatic Discharge (ESD): ESD can damage product(s). Personal grounding equipment should be worn during all installation or servicing of the unit.
- √ Do not touch individual electrical components, as this can cause ESD and affect product performance.
- √ Do not stretch or use cable sets that are too short or are of insufficient length.
- √ 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

- √ Disconnect or turn off power before installation or servicing.
- √ Verify that supply voltage is correct by comparing it with the product information.
- √ Make all electrical and grounded connections in accordance with the National Electrical Code (NEC) and any applicable local code requirements.
- √ All wiring connections should be capped with UL approved recognized wire connectors.
- √ All unused connector openings must be capped.

WARNING - RISK OF BURN or FIRE

- √ 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.

CAUTION - RISK OF INJURY

- √ Wear gloves and safety glasses at all times when installing, servicing or performing maintenance.

