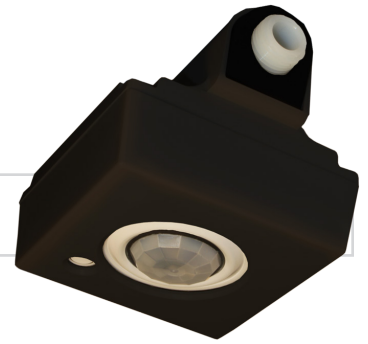




SBOR 6 ODP SBOR 10 ODP



OUTDOOR POLE/FIXTURE MOUNT MOTION SENSOR 360° COVERAGE • ON/OFF/DIM • PHOTOCELL • IP66 RATED

SPECIFICATIONS

FEATURES

- 100% Digital PIR Detection, Excellent RF Immunity
- Integrated Photocell
- Self-Contained Relay for Switching
- 0-10 VDC Output for Dimming
- Gasketed for Outdoor Operation
- Enables Fixture or Pole Mounting
- Compatible w/ 0-10 VDC Dimmable Ballasts and LED Drivers
- Interchangeable Hot & Load Wires, Impossible to Wire in Reverse
- Adjustable Time Delays, Max/Min Dim Levels, and Ramp Rates
- Programming Button Accessible w/o Opening Sensor or Removing Gaskets
- No Field Calibration or Sensitivity Adjustments Required
- Non-Volatile Settings Memory
- Convenient Test Mode
- Green LED Indicator

PHYSICAL SPECS

- SIZE: 3.35" H x 4.40" W x 4.00" D (8.51 cm x 11.18 cm x 10.16 cm)
- WEIGHT: 9 oz
- MOUNTING: 1/2" knockout (7/8" hole)
- COLOR: White, Black, or Dark Bronze

ELECTRICAL SPECS

- MAXIMUM SWITCHING LOAD:
 - 800 W @ 120 VAC
 - 1000 W @ 208 VAC
 - 1200 W @ 240 VAC
 - 1200 W @ 277 VAC
 - 1500 W @ 347 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)

ENVIRONMENTAL SPECS

- OPERATING TEMP: -40° to 160° F (-40° to 71° C)
- IP66 RATED
- SILICONE FREE
- ROHS COMPLIANT



CSA LISTED
ASSEMBLED in U.S.A.
5 YEAR WARRANTY

OVERVIEW

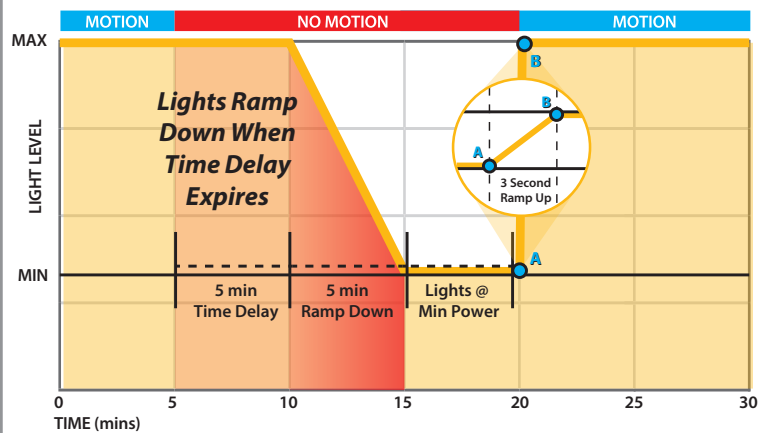
The **SBOR xx ODP** Series sensors provide both Motion and Daylight based control of a 0-10 VDC dimmable outdoor or wet location luminaire. Designed to mount directly through a 1/2" knockout (7/8" hole) in a light fixture or pole, the **SBOR xx ODP** can both switch and dim its connected lighting. For motion detection, the sensor utilizes 100% Digital Passive Infrared (PIR) technology that is tuned for walking size motion while preventing false tripping from the environment. The unit's integrated photocell enables additional energy savings during daytime periods when there is sufficient daylight.

SEQUENCE OF OPERATION - MOTION

For outdoor applications, where occupant safety is of primary concern, the **SBOR xx ODP** Series sensors are factory set to start dimming the lights once the motion time delay expires. Set to 5 min by default, this time delay is followed by a 5 min ramp down period where the lights slowly drop to the minimum dim level. Utilizing a long ramp down rate eliminates noticeable drops in light level. If motion is detected at any time during the ramp down period or when at the minimum dim level, the sensor will quickly ramp the lights back up to maximum level (default 100%) over a 3 sec (default) period. This ramp up period is intended to quickly return the lighting to full bright without distracting occupants with a sudden jump in the space's light level. The time delays, ramp rates, and max/min dim levels are user adjustable via the accessible push-button. See luminaire specifications for corresponding power level at minimum dim level.

Sequence of Operation

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



SEQUENCE OF OPERATION - DAYLIGHT

To prevent lights from day-burning, the **SBOR xx ODP** Series sensor will switch lighting completely off during periods of sufficient daylight. Providing on/off photocell control eliminates the need for astronomical or time clocks. Additionally, the sensor's closed loop photocell adjusts its calibration after every cycle to accommodate visual changes to the space in which they are installed (for example different color cars in a parking garage reflecting light differently). The photocell operation can also be set to dim lights to the minimum level instead of turning them off.

ORDERING INFO SBOR [MOUNTING HEIGHT] ODP [VOLTAGE] [COLOR] [MINIMUM DIM LEVEL]

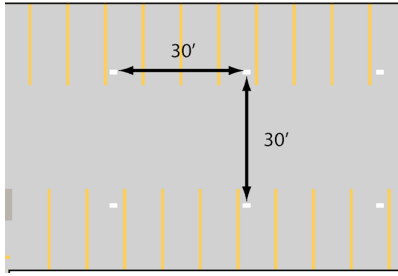
| OPTIONS | MOUNTING HEIGHT | VOLTAGE | COLOR | MIN DIM LEVEL | |
|---------|---|---|--|--|--------------------------------------|
| | Low Mount (8-15 ft) = 10 High Mount (15-30 ft) = 6 | Blank = 120-277 VAC (MVOLT) HVOLT = 347-480 VAC | WH = White BK = Black BZ = Dark Bronze | 1V = 1 VDC 2V = 2 VDC 3V = 3 VDC | 4V = 4 VDC 5V = 5 VDC 0V = OFF |

APPLICATION / COVERAGE

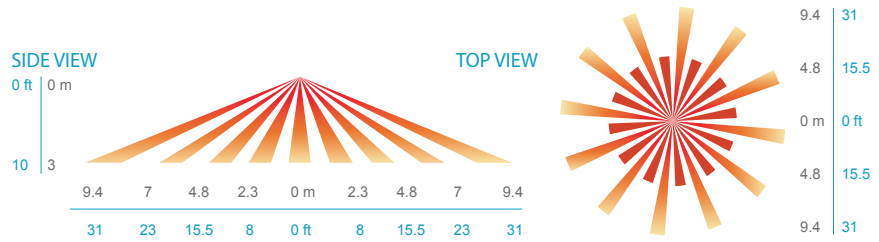
Revised 12.03.13 © 2013 Sensor Switch

PARKING GARAGE / LOW MOUNT APPLICATIONS

In general, the **SBOR 10 ODP** is recommended for 8-15 ft 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 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).



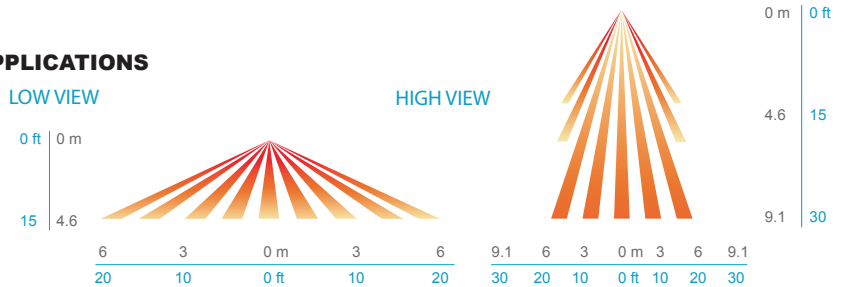
Typical 30'x30' spacing of parking garage luminaires



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, and provides a coverage area radius for walking motion of 15-20 ft. When mounted to a pole the sensor provides 270° of coverage (90° is blocked by the pole).

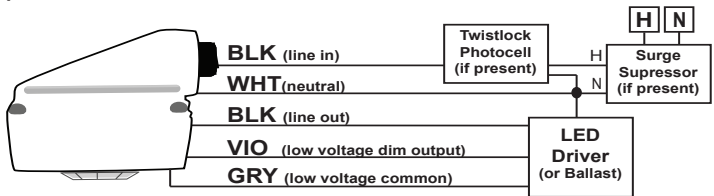


Coverage Pattern of High Mount Lens Option (SBOR 6 ODP)

WIRING (DO NOT WIRE HOT)

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

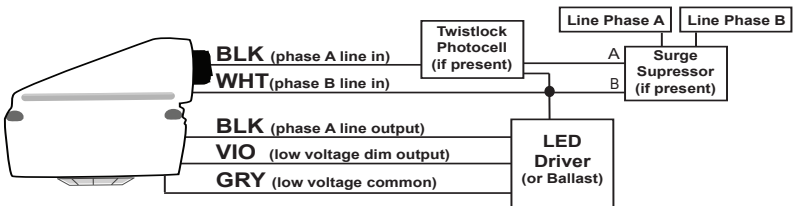
- BLACK*** - 120/277 VAC Input
(RED wire for 347 VAC - requires HVOLT option)
- BLACK*** - Switched Line Voltage Output to Luminaire
(RED wire for 347 VAC - requires HVOLT option)
- WHITE** - Neutral
- VIOLET** - Low Voltage Dimming Output (0-10 VDC)
- GRAY** - Low Voltage Common



*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 Dimming Output (0-10 VDC)
- GRAY** - Low Voltage Common



*BLACK wires can be reversed

*Safety Note: only one line phase is being switched

INSTALLATION

- 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
- If the sensor loses power, the internal relay will latch closed and the dimming output will allow lights to return to full bright.

PROGRAMMING

Refer to instruction card IC14.003 for default settings and directions on programming the sensor via the push-button.

WARNING

Fire Hazard Caution: Maximum Lamps 1500 Watts, Type 347 VAC.

Attention: Risque d'incendie : Puissance Maximales Des Lampes 1500 Watts, Type 347 VAC.

Warning: The units are intended to be installed by a qualified person with properly rated branch circuit protectors as per applicable local and national regulations (CEC, NEC).



WARRANTY: Sensor Switch warrants these products to be free of defects in manufacture and workmanship for a period of 60 months. Sensor Switch, upon prompt notice of such defect, will, at its option, provide a Returned Material Authorization number and repair or replace returned product.
LIMITATIONS AND EXCLUSIONS: This Warranty is in full lieu of all other representation and expressed and implied warranties (including the implied warranties of merchantability and fitness for use) and under no circumstances shall Sensor Switch be liable for any incidental or consequential property damages or losses.

An Acuity Brands Company

TS-SBR-012A