sensorswitch®

SBR 10 2P

EXTENDED RANGE 360º SENSOR
EMBEDDED SMALL BOX • LINE VOLTAGE • PASSIVE INFRARED (PIR) • 2 POLE

SPECIFICATIONS

FEATURES
- 100% Digital PIR Detection, Excellent RF Immunity
- 2 Self-Contained Relays, No Power Packs Needed
- No Minimum Load Requirements
- Interchangeable Hot & Load Wires, Impossible to Wire in Reverse
- Push-Button Programmable Adjustable Time Delays / Pole
- No Field Calibration or Sensitivity Adjustments Required
- Convenient Test Mode
- 100 hr Lamp Burn-in Timer
- Green LED Indicator

LAMPMAXIMIZER® TECHNOLOGY
- Protects Lamp Life while Maximizing Energy Savings
- Minimum On Timer (15 min default)
- Occ. Time Delay (10 min defatult)

PHYSICAL SPECS

SIZE (w/ MOUNTING FLANGE)
3.40” H x 3.40” W x 1.40” D
(8.64 cm x 8.64 cm x 3.56 cm)
WEIGHT 6 oz
MOUNTING 2.65” (6.73 cm) square opening in fixture (minimum depth 1.50” (3.8 cm))
COLOR White

ELECTRICAL SPECS

MAXIMUM LOAD / POLE
(1 Phase Only)
800 W @ 120 VAC
1200 W @ 277 VAC
1500 W @ 347 VAC
MINIMUM LOAD None
MOTOR LOAD 1/4 HP
FREQUENCY 50/60 Hz

ENVIRONMENTAL SPECS

OPERATING TEMP
14º to 160º F (-10º to 71º C)
RELATIVE HUMIDITY
20 to 90% non-condensing
SILICONE FREE
ROHS COMPLIANT

OVERVIEW

With two self-contained relays, corridors with A/B switching are ideal for the **SBR 10 2P** Series occupancy sensor. At 9 ft (2.74 m) this sensor views up to 28 ft (8.53 m) in all directions. The **SBR 10 2P** sensor recess mounts into a 2.65” (6.73 cm) square opening in a fixture and is perfect for classrooms, private offices, or large rest room applications.

SENSOR OPERATION

The sensor detects changes in the infrared energy given off by occupants as they move within the field-of-view. When occupancy is detected, a two self-contained relays switch the connected lighting loads on. The sensor is line powered, switches line voltage, and requires no field calibration or sensitivity adjustments.

LAMPMAXIMIZER®

This sensor also contains patented LampMaximizer technology that allows users to aggressively target energy savings while still protecting lamp life. A minimum on timer, factory set at 15 minutes, helps preserve lamp life by eliminating all lamp cycles shorter than lamp warranties specify.

A standard occupancy time delay is also present that ensures lights turn off (assuming minimum on timer has elapsed) if no occupancy is detected. This timer is factory set at 10 minutes to promote energy savings, but is adjustable between 30 seconds and 20 minutes. These adjustments are done manually through the unit’s push-button; no tools required.

OPTIONS

INHIBIT PHOTOCELL (P)
- Photocell can prevent lights from turning on if adequate daylight is available, but cannot turn lights off
- Maintains two set-points, enabling separate control of both poles

DUAL ZONE PHOTOCELL (DZ)
- Provides more advanced control than **P** option
- DUO Operation: Determines necessary on/off combination of poles in inboard/outboard applications
- Percentage Offset Operation: Uses relative set-point for second pole in dual zone applications

347 VAC (347)
- Allows sensor to be powered from and switch 347 VAC

LOW TEMP/HIGH HUMIDITY (LT)
- Sensor electronics are coated for corrosion resistance
- Operates down to -40º F/C
- Required for cooler/freezer applications

C SA US

CSA LISTED
TITLE 24
ASSEMBLED in U.S.A.
5 YEAR WARRANTY

ORDERING INFO

SBR 10 2P [PHOTOCELL] [VOLTAGE] [TEMP/HUMIDITY]

PHOTOCELL

Blank = None
P = Inhibit Photocell
DZ = Dual Zone Photocell

VOLTAGE

Blank = 120/277 VAC
347 = 347 VAC

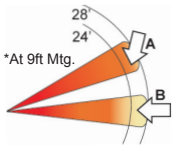
TEMP/HUMIDITY

Blank = Standard
LT = Low Temp

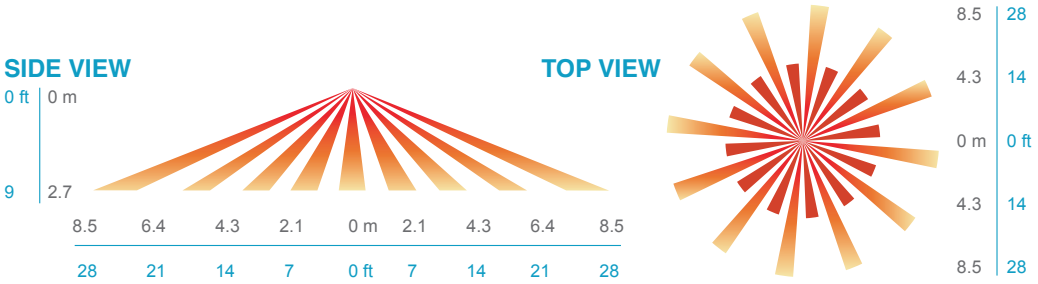
COVERAGE PATTERN

EXTENDED RANGE 360° LENS

- Best choice for large motion detection (e.g. walking)
- Viewing angle of 67° in a 360° conical shaped pattern
- Provides 28 ft (8.53 m) radial coverage when mounted to standard 9 ft (2.74 m) ceiling
- 7 to 15 ft (2.13 to 4.57 m) mounting heights provide 16 to 36 ft (4.88 to 10.97 m) radial coverage



A: When walking across beam, detection will occur at approximately 28 ft
B: When walking into beam, detection will occur at approximately 24 ft



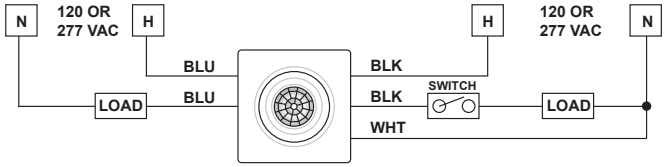
WIRING (DO NOT WIRE HOT)

STANDARD WIRING

BLACK* - Line Input 1
BLACK* - Load Output 1
} *BLACK wires can be reversed

BLUE** - Line Input 2
BLUE** - Load Output 2
} **BLUE wires can be reversed

WHITE - Neutral



347 VAC OPTION (347)

Black wires are replaced w/ Red wires

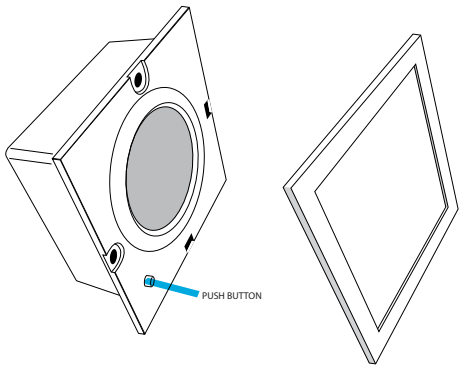
INITIAL POWER UP

The sensor's relays are shipped in a latched closed position so the lights will come on upon initial power-up. If the lights do not immediately turn on (initial installation only) the latching relays opened during shipment and will close within 30 secs.

Note: If the sensor loses power, the internal relays will latch to on.

INSTALLATION

- The SBR Series offers a custom look for recess mounting in lighting fixtures. It mounts inside a 2.65" square opening in a fixture (minimum depth 1.50").



PROGRAMMING

Refer to instruction card IC8.001 for default settings and directions on programming the sensor via the push-button.

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