Catalog Number: | Date: | Project:

OVERVIEW

The SBR 10 Series incorporates Passive Infrared (PIR) technology into a line powered occupancy sensor to provide maximum viewing from the ceiling. The SBR 10 sensor recess mounts into a 2.65" (6.73 cm) square opening in a fixture. Its circular coverage pattern is designed for walking motions; making it ideal for T-shaped intersections in corridors, or other areas where wall mounting a sensor is not practical. Low ceiling heights are also best covered with the SBR 10. For example, when mounted at only 7 ft (2.13 m), the height of pick aisles in many distribution centers, the SBR 10 provides a 32 ft (9.75 m) diameter pattern of coverage.

FEATURES

- 100% Digital PIR Detection, Excellent RF Immunity
- Self-Contained Relay, No Power Pack Needed
- No Minimum Load Requirements
- Compatible w/ Electronic & Magnetic Ballasts, CFLs, LED, & Incandescents
- Interchangeable Hot & Load Wires, Impossible to Wire in Reverse
- Push-Button Programmable
- Non-Volatile Settings Memory
- Adjustable Time Delays
- No Field Calibration or Sensitivity Adjustments Required
- Convenient Test Mode
- No PIR field calibration or sensitivity adjustments required
- 0-10 VDC dimming
- Green LED indicator

SPECIFICATIONS

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 or Black
Maximum Load:	800 W @ 120 VAC, 1000 W @ 208 VAC, 1200 W @ 240 VAC, 1200 W @ 277 VAC, 2160 W @ 480 VAC
Minimum Load:	None
Motor Load:	1/4 HP
Frequency:	50/60 Hz
Dimming Load:	Sinks <20 mA; ~40 Ballasts @ .5 mA each

ROHS compliant

Warranty

Five-year limited warranty. Complete warranty terms located at:
www.acuitybrands.com/CustomerResources/Terms_and_conditions.aspx

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

AcuityControls™

Sensor Switch™

SBR 10

Low Mount 360° Sensor

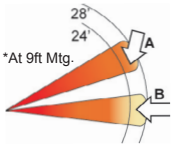
ORDERING INFORMATION

sPODMRD			Example: SBR 10 HL WH
Series	**Dimming/Photocell**	**Voltage**	**Color**
SBR 10 Low Mount 360° Sensor	HL High/Low Occupancy Operation	[blank] 120/277 VAC (MVOLT)	WH White

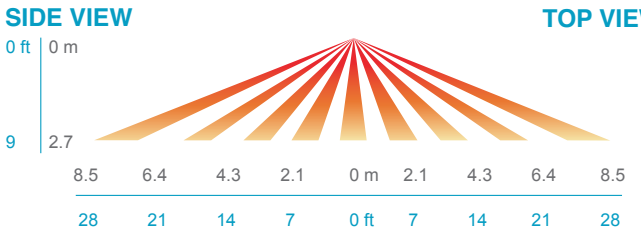
COVERAGE PATTERN

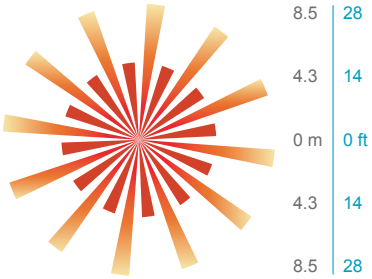
LOW MOUNT 360° LENS

- 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 (8.53 m)
B: When walking into beam, detection will occur at approximately 24 ft (7.32 m)

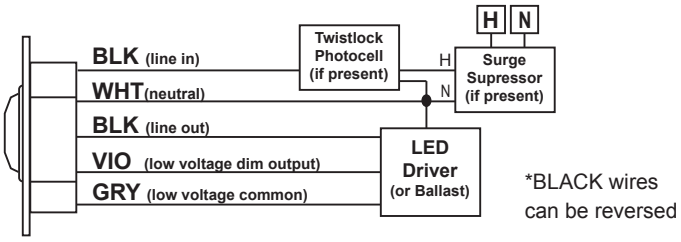




WIRING (DO NOT WIRE HOT)

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

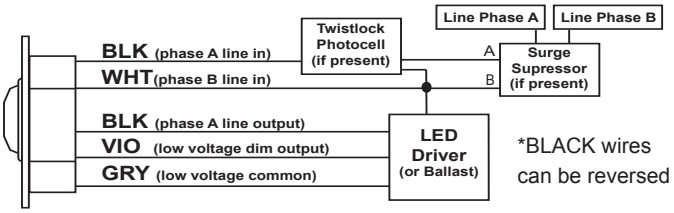
BLACK* - 120/277 VAC Input
(**RED** wire for 347 VAC - requires HVOLT option)
BLACK* - Switched Line Voltage Output to Luminaire
(**RED** wire for 347 VAC - requires HVOLT option)
WHITE - Neutral
VIOLET - Low Voltage Dimming Output (0-10 VDC)
GRAY - Low Voltage Common



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

*Safety Note: only one line phase is being switched



OPERATION

# of Relays	Photocell	0-10 VDC Dimming	Power	Included Lenses	Notes
1	no	yes	120-277 VAC (MVOLT)	High Mount 360° & Low Mount 360°	Occ. - High/Low/Off (if relay is wired) or High/Low (if relay is not wired)

PROGRAMMING INSTRUCTIONS

Operational settings can be changed via the push-button sequence outlined below (note the example used is for changing the Low Trim setting).