

PRODUCT INFORMATION

HIGH BAY

Fixture Mount Sensors
with Single Lens
(360°, Aisleway, or End-of-Aisle)

Overview
Designed for mounting heights of up to 45 ft (13.72 m), high bay 360° occupancy sensors have a 15-20 ft (4.57-6.10 m) radial coverage pattern that overlaps the area lit by a typical high bay fixture. Applications include warehouses and gymnasiums. High bay aisleway sensors provide bi-directional coverage extending 70-110 ft (21.33-33.53 m) when mounted at heights of 30-45 ft (9.14-13.72 m). The sensor's view pattern covers the area lit by three typically spaced high bay fixtures. Therefore, when mounted at a fixture, the coverage area extends out to the area that is lit by the neighboring fixtures. This effect is useful because some ballasts have a delay after they receive power. These aisleway sensors ensure that even when traveling in a forklift truck, lights will still come on in time. High bay end-of-aisle sensors view up to 110 linear ft (33.53 m) of aisleway space when mounted between 30-45 ft (9.14- 13.72 m). These sensors are perfect for detecting occupants walking or riding in forklift trucks and typically are used in pairs to control an entire aisle of lighting together. For aisles longer than 110 ft (33.53 m), use end-of-aisle sensors on either end and high bay aisleway or 360° sensors to cover the inner portions. Individual fixture control is best handled by line voltage sensors, while multiple fixture control is best handled by one or more low voltage sensors and a power pack. These sensors are ideal for on/off control of T5/T8 fluorescent lighting.

LSXR Series sensors are recommended for LED lighting. HID bi-level fixtures can be controlled with a low voltage sensor and a PP20 SH power pack. 2-pole high bay sensors are also available, as are units designed for switching 208 and 480 VAC lighting.

- Features [All]**
- 30 second to 30 minute time delay
 - Push-button programmable
 - Convenient test mode
 - Green LED indicator
- Features [Line voltage]**
- Self-contained relay(s)
 - No minimum load
 - Interchangeable hot and load wires

ENCLOSURES



FIXTURE MOUNT BOX W/HIGH BAY 360° LENS
SIZE 3.63" (9.22cm) square, 1.5" deep (3.9 cm)
WEIGHT 6 oz
MOUNTING .5" knockout
COLOR White



FIXTURE MOUNT BOX W/ HIGH BAY AISLEWAY LENS
SIZE 3.63" (9.22cm) square, 1.5" deep (3.9 cm)
WEIGHT 6 oz
MOUNTING .5" knockout
COLOR White



FIXTURE MOUNT BOX W/ HIGH BAY END-OF-AISLE LENS
SIZE 3.63" (9.22cm) square, 1.5" deep (3.9 cm)
WEIGHT 6 oz
MOUNTING .5" knockout
COLOR White

COVERAGE PATTERN

For diagrams of coverage patterns, see data sheets at www.sensorswitch.com.

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| High Bay 360° <ul style="list-style-type: none">• Best choice for 15 to 45 ft (4.57 to 13.72 m) mounting heights• 15 to 20 ft (4.57 to 6.10 m) radial coverage overlaps area lit by a typical high bay fixture• Excellent detection of large motion (e.g. walking) up to a 35 ft (10.76 m) mounting height• Excellent detection of extra large motion (e.g. forklifts) up to a 45 ft (13.72 m) mounting height | High Bay Aisleway <ul style="list-style-type: none">• Provides a bi-directional coverage pattern ideal for warehouse racking• 1.2x mounting height equals approximate detection range in either direction• Typical 40 ft (12.19 m) mounting detects 50 ft (15.24 m) in either direction• Superior aisleway coverage compared to a masked 360° lens | High Bay End-of-Aisle <ul style="list-style-type: none">• Detects motion from the end of an aisle up to 110 ft (33.53 m) long• Designed to mount 30 ft (9.14 m) high and 10 ft (3.05 m) back from end-of-aisle• Sensors should always be applied in pairs facing each other from either end of an aisle |
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OPTION INFORMATION

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| R Low Voltage Relay <ul style="list-style-type: none">• Enables sensors to interface with other systems (e.g. BMS, lighting panels)• Provides dry contact closure via a SPDT, 30 volt relay (resistive loads only) | P Photocell <ul style="list-style-type: none">• Adjustable max/min dim setting• Auto Set-point calibration• On/off mode: Full on/off control of lighting during periods of occupancy with adequate daylight• Inhibit mode: Prevents lights from turning on if adequate daylight is available, but does not turn lights off• 2-pole units operate in inhibit mode only | LT Low Temp/High Humidity <ul style="list-style-type: none">• Sensor electronics are coated for corrosion resistance• Operates down to -40° F/C |
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- ADC Occupancy Controlled Dimming**
- Provides dimming output to control 0-10 VDC dimmable ballasts/driver
 - Provides a second occupancy time-out period that enables the lights to go to a dim setting before turning off
- 347 347 Voltage**
- Allows sensor to be powered from and switch 347 VAC

PRODUCT INFORMATION

High Bay Sensors: Low Voltage

Electrical Specs
Operating Voltage

12-24 VDC/VAC

Recommended Power Pack

Fluorescent

PP20

HID

PP20 SH

Current Draw

4 mA

w/ R option

16 mA

KEY SPECS

SERIES	COVERAGE PATTERN	DETECTION	POWER TYPE [VDC/VAC]
CMB 6	360°	PIR	12-24
CMB 50	Aisleway	PIR	12-24
HMB 50	End-of-Aisle	PIR	12-24

TITLE 24 SYSTEM COMPONENT
ASSEMBLED in U.S.A.
5-YEAR WARRANTY

LOW VOLTAGE

Specifications subject to change.

Example: CM 6 R P LT

Series	Relay	Dimming ¹	Photocell ²	Temp/Humidity
CMB 50	(blank) None	(blank) None	(blank) None	(blank) Standard
HMB 50	R Low voltage relay	D Occupancy controlled high/low dimming	P Photocell	LT Low Temp/High Humidity
CMB 6				

Notes

- 1 CMB 6 only.
- 2 Not available for HMB 10.

PRODUCT INFORMATION

High Bay Sensors: Line Voltage

Electrical Specs
Load Rating

800 W @ 120 VAC

1000 W @ 208 VAC

1200 W @ 240/277 VAC

1500 W @ 347 VAC

2160 W @ 480 VAC

Motor Load 1/4 Hp**Frequency** 50/60 Hz

KEY SPECS

SERIES	COVERAGE PATTERN	DETECTION	POWER TYPE [VAC]
CMRB 6	360°	PIR	120/277
CMRB 6 208	360°	PIR	208/240
CMRB 6 480	360°	PIR	480
CMRB 50	Aisleway	PIR	120/277
CMRB 50 208	Aisleway	PIR	208/240
CMRB 50 480	Aisleway	PIR	480
HMRB 10	End-of-Aisle	PIR	120/277
HMRB 10 208	End-of-Aisle	PIR	208/240
HMRB 10 480	End-of-Aisle	PIR	480

TITLE 20/24
ASSEMBLED in U.S.A.
5-YEAR WARRANTY

LINE VOLTAGE

Specifications subject to change.

Example: CMRB 6 LT

Series	Photocell/Dimming (choose one only)	Voltage ³	Temp/Humidity
CMRB 6	(blank) None	(blank) 120/277 VAC	(blank) Standard
CMRB 6 208	D Occupancy controlled high/low dimming ¹	347 347 VAC	LT Low Temp/High Humidity
CMRB 6 480	P Switching photocell ²		
CMRB 50			
CMRB 50 208			
CMRB 50 480			
HMRB 10			
HMRB 10 208			
HMRB 10 480			

Notes

- 1 Only available for CMRB 6 series.
- 2 Not available on HMRB 10 XX series.
- 3 Not available with "208" or "480" series.

PRODUCT INFORMATION

High Bay Sensor: 2-Pole, Line Voltage

Electrical Specs
Load Rating/Pole

800 W @ 120 VAC

1200 W @ 277 VAC

1500 W @ 347 VAC

Motor Load 1/4 Hp**Frequency** 50/60 Hz

KEY SPECS

SERIES	COVERAGE PATTERN	POWER TYPE [VAC]	POLES (RELAYS)
CMRB 6 2P	360°	120/277	2
CMRB 50 2P	Aisleway	120/277	2
HMRB 10 2P	End-of-Aisle	120/277	2

TITLE 20/24
ASSEMBLED in U.S.A.
5-YEAR WARRANTY

2-POLE, LINE VOLTAGE

Specifications subject to change.

Example: CMRB 6 2P P LT

Series	Photocell ¹	Voltage	Temp/Humidity
CMRB 6 2P	(blank) None	(blank) 120/277 VAC	(blank) Standard
CMRB 50 2P	P Photocell	347 347 VAC	LT Low Temp/High Humidity
HMRB 10 2P			

Notes

- 1 Not available with HMRB 10 2P series.