MVS50/LCB



Color: White

Weight: 0.1 lbs

Project:	Type:
Prepared By:	Date:

Technical Specifications

Lightcloud

Lightcloud Blue:
Lightcloud Blue, RAB's wireless lighting control system, eliminates the need for a hub or controller. The app shows the fixtures nearest you first, so an area is set up in minutes, even without internet on site. Lights and schedules keep working if the Wi-Fi goes down, and a Nano adds control from anywhere.
DLC system: N1XMLOEATBA (Interior); NHCZ2BIA17L (Exterior)
Learn more at rablighting.com/lcb.

Gateway Required:
No

Communication Protocol:
Bluetooth

Range:
Indoor: Up to 60 feet between standard building materials. Building materials such as brick, concrete, and steel construction may require additional Lightcloud Blue devices to extend around an obstruction; Up to 200 feet clear line of sight.

Outdoor: Up to 60 feet clear line of sight; Up to 18 feet around corners

Spacing Criteria:
Lightcloud Blue devices should be placed within the specified range to communicate within the network. Building materials such as brick, concrete, and steel construction or heavy vegetation, bushes or trees may require additional Lightcloud Blue devices to extend around an obstruction.

Factory Reset:
Method 1: Delete from App
Open the app and access the device settings for the paired device. Be sure that the device is online and select 'Delete'. The device will flash on/off 5 times and return to full brightness.
Method 2: Manual
Power the device off and on 5x consecutively. Do not allow less than 4s to elapse from switching off to on. Do not allow more than 2s to elapse from switching on to off. The device will flash 3x, then reset to 100% brightness at default CCT.
Method 3: Rapid Reset Tool
The Rapid Reset process must be done by a professional electrician qualified by RAB. Reach out to your RAB sales manager to request a Rapid Reset Tool. The tool simply needs to be placed directly on the small Lightcloud Blue logo on the device for 2s or until the lamp/luminaire flashes 3x, then resets to 100% brightness at the default CCT.

Performance

Product Type:
Low Voltage Controller+Sensor

L70 Lifespan:
50,000-Hour LED lifespan based on IES LM-70 results

Electrical

Dimmable:
Yes via the Lightcloud Blue mobile app and devices. This product will not operate properly when connected to a standard (incandescent) dimmer or dimming control.

Input Voltage:
12V

Operating Frequency:
50/60Hz

Operating Temperature:
-4°F to 140°F (-20°C to 60°C)

Sensor Settings

Sensor Connection Type:
Pogo pin

Max Mounting Height:
50 ft

Detection Range:
50 ft diameter mounted at 50 ft

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Technical Specifications (continued)

Sensor Technology:
Microwave (MVS)

Default Setting:
Uncommissioned State:
Motion Sensitivity: High
Brightness when triggered : 100%
Hold time: 20 minutes
Standby to dim: 20%
Standby time: 1 minute
When vacant: Off
Daylight: Disabled

Commissioned State:
Once pair, the sensor will default to disabled. Once enabled the following settings apply:
Motion Sensitivity: High
Brightness when triggered: Last on status
Hold time: 20 minutes
Standby to dim: 20%
Standby time: 1 minute
When vacant: Off
Daylight: Disabled

Adjustable Sensor Settings?:
Yes, using the Lightcloud Blue mobile app

Sensing Type:
Occupancy or Vacancy (option to disable or set as an independent sensor)

Occupied Actions:
On or On at a Dim Level

Vacant Actions:
Off or On at a Dim Level

Occupancy Timeout:
1 minute to 240 minutes

Daylight Sensing:
The sensor will determine to trigger the light(s) on or not based on the daylight threshold level set in the Lightcloud Blue mobile app.

Daylight Threshold:
150 lux to 1500 lux

Construction

Enclosure Material:
Plastic

Compliance

Environment:
Suitable for use indoors and outdoors in dry, damp, or wet environments.

IP Rating:
IP66

DLC NLC Listed:
This product is on the Design Lights Consortium (DLC) Network Lighting Controls (NLC) Qualified Products List and is eligible for rebates from DLC Member Utilities.
DLC system - N1XMLOEATBA (Interior);
NHCZ2BIA17L (Exterior)

Certification Model Number:
MVS50/LCB

California Title 20 Compliant:
No

California Title 24 JA8 Compliant:
No

California Energy Commission (CEC) Status:
Lawful for Sales in California

RoHS:
Mercury and UV free. RoHS-compliant components.

FCC:
Complies with Part 15 of the FCC Rules

Other

Compatible Accessories:
RAAS
Right angle arm support
RAASB
Right angle arm support

5-Year, No-Compromise Warranty:
RAB warrants that our LED products will be free from defects in materials and workmanship for a period of five (5) years from the date of delivery to the end user, including coverage of light output, color stability, driver performance and fixture finish. RAB's warranty is subject to all terms and conditions found at rablighting.com/warranty.

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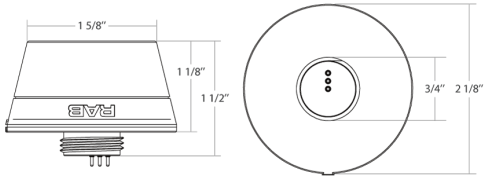
Dimensions



Features

- Remotely controlled to enable switching and dimming in any compatible 0-10V LED fixture
- Direct connect to the Lightcloud Blue mobile app via Bluetooth; no Gateway or Hub required
- For use in indoor and outdoor applications in dry, damp or wet environments
- Compatible with 0-10V dimming fixtures with auxiliary power supply
- Integrated dual-technology motion and daylight sensor.

Coverage Pattern

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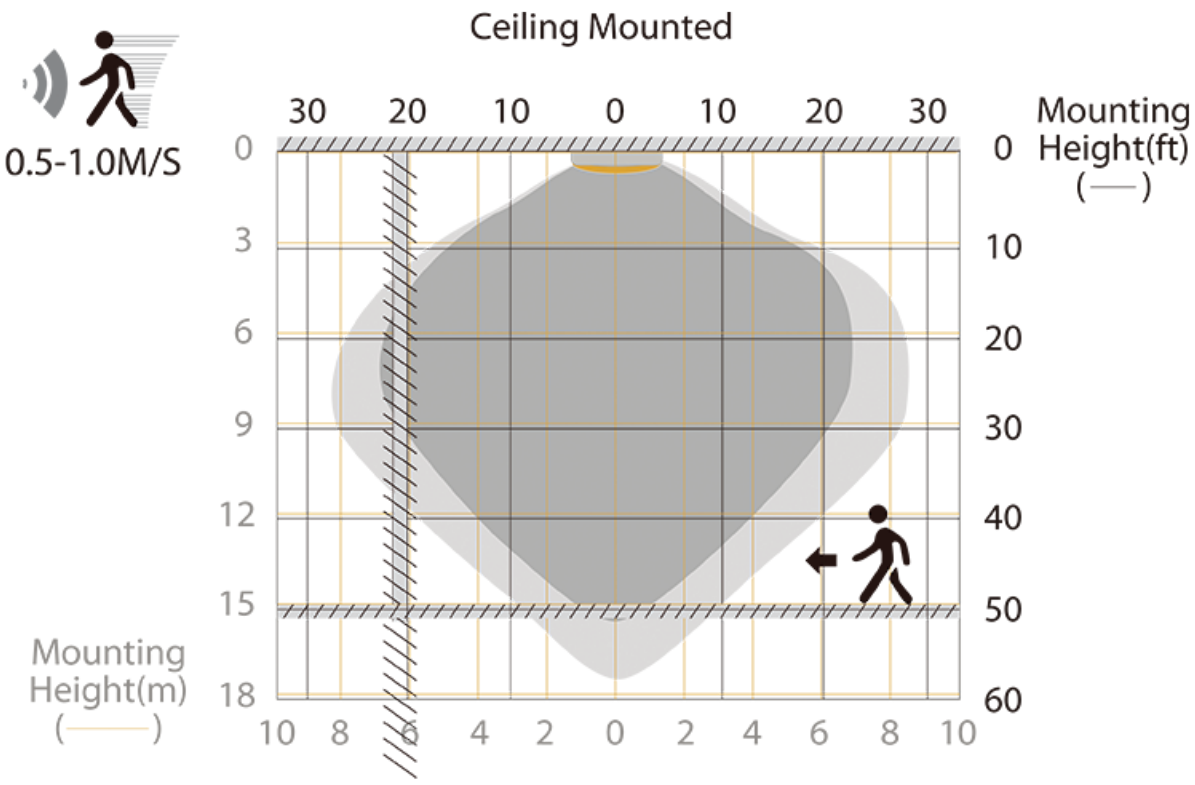

Highest mounting height is:
MVS20x/LCB: 6m/20ft, MVS50x/LCB: 15m/49ft
This gure indicates the maximum distance at the highest mounting height with 100% sensitivity.

Well Detected Area

Possibly Detected Area

Ordering Matrix

Family	Driver	Detection Height	Finish	Options
MVS		50		/LCB
	Blank = 12VDC	**20 =** 20 ft **50 =** 50 ft	**Blank =** White **B =** Black	**Blank =** Standard **/LCB =** Lightcloud Blue

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