OVERVIEW

The rCMSB family of nLight AIR-enabled wireless ceiling/surface mount occupancy and daylight sensors provide a range of sensor solutions for a wide variety of ceiling applications. The rCMSB sensor utilizes analog Passive Infrared (PIR) detection and are available with several lens options, providing flexibility for multiple mounting height and coverage pattern requirements. It also has an integrated photosensor, with automatic daylight harvesting/dimming control available during programming.

The rCMSB is battery powered for ease of installation where line power is not easily accessible and communicates with one or more nLight AIR-enabled fixtures or Power Packs to enable control of fixtures individually or in groups.

FEATURES

- Powered with three off-the-shelf lithium AA batteries and rated for 10 years of use, minimizing battery replacement.
- Analog PIR Detection and optional Passive Dual Technology (PDT) occupancy that adds Microphonics to look and listen for occupants in the space.
- A recessed mount option that takes the tools out of your hands, installing in a standard 3" hole and delivering the lowest profile of any independent occupancy sensor
- Integrated, dimming photosensor included – Photocell views down through sensor lens
- LED status indicator to indicate motion during operation and provide feedback during startup
- Adjustable settings (e.g. occupancy time delays, photocell set-points) via CL**AIR**ITY™+ mobile app
- Batteries are included and preinstalled, allowing for a simple unbox and mount installation
- Communicates with nLight AIR devices via radio frequency (RF) in the 900MHz spectrum

Warranty

Five-year limited warranty. This is the only warranty provided and no other statements in this specification sheet create any warranty of any kind. All other express and implied warranties are disclaimed. Complete warranty terms located at: www.acuitybrands.com/support/warranty/terms-and-conditions

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

ds design select

Items marked by a shaded background qualify for the Design Select program and ship in 15 days or less. To learn more about Design Select, visit www.acuitybrands.com/designselect. *See ordering tree for details

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nLight® AIR
rCMSB
Ceiling Mounted
Battery Powered
Smart Sensor

ds Design Select options indicated by this color background.

ORDERING INFORMATION

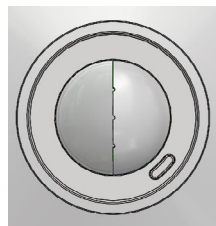| rCMSB				Example: RCMSB 7 G2
Series / Detection	**Detection**	**Lens**	**Mounting Type**	**Generation**
RCMSB nLight AIR occupancy and daylight sensor	[blank] PIR Detection PDT Dual Tech PIR/ Microphonics [1]	7 Low Mount 360 [1] 45 High Mount 360° 45A High Mount Aisleway	[blank] Surface Mount RECM Recessed Mount JBM J-Box Mount	G2 Generation 2 compatibility

Accessories
MASKKIT RCMSBACC J5   Masking Labels*

*Must order in quantities of 5

Notes:
1. PDT is only available with the 7 lens.

SPECIFICATIONS

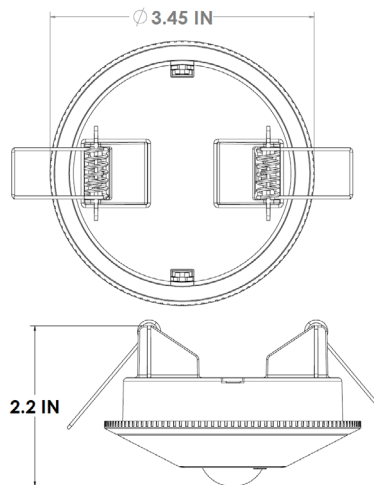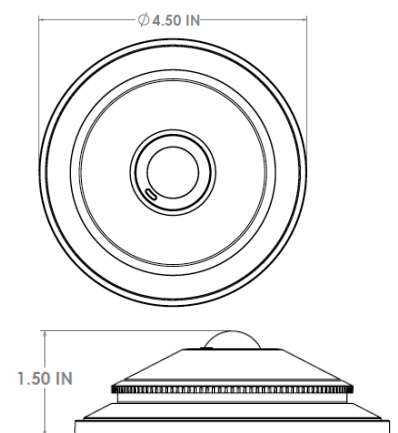|	
Product Weight	4.3 oz
Color	Matte White
Enclosure Material	Polycarbonate/ABS
Max Humidity	95% non-condensing
Mounting	Surface mountable to concrete, drywall, ceiling tile or metal. Recessed mountable in drywall or ceiling tile applications.
Operating Temperature	-40°F to 140°F (-40°C to 60°C)
Radio Frequency	Dual Radio: 900MHz & 2.4GHz
RF Transmit Power	900Mhz: up to 20 dBm
	2.4GHz: up to 10.4 dBm
Wireless Standard	900MHz: IEEE 802.15.4-based
	2.4GHz: Version 4.0+ of the Bluetooth specification
Security Application Data Encryption:	AES-128 bit
	Mutual Entity Authentication
	Message Confidentiality
	Message Authentication and Replay Prevention
	Limited Anonymity
Regulatory Compliance:	FCC ID: 2ADCB-RMODIT3, RoHS Compliant, cULus
	IC: 6715C-RMODIT3
	IFETEL: RCPNLNL20-2057
Masking Labels	Masking Labels are available as a 5 pack to mask off a portion of the lens coverage pattern for end-of-aisle applications.

Out of Box Settings

Daylighting setpoint:	5 fc
LED behavior:	Enabled, responds to occupancy transitions
Occupancy Time Delay:	10 min* default

*Note: shorter delay may affect battery life

Masking Label

DIMENSIONS

Surface Mount

⌀ 3.5 IN

1.5 IN

Recessed Mount

⌀ 3.45 IN

2.2 IN

**J-Box Mount**

⌀ 4.50 IN

1.50 IN
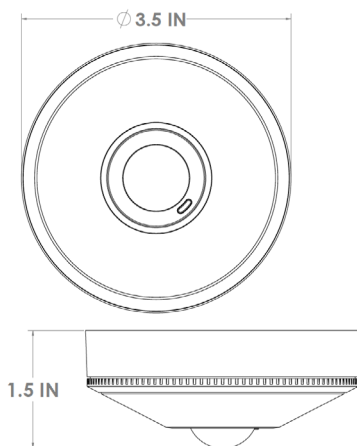
COVERAGE PATTERNS*

Recommended mounting 4' or more away from HVAC vents.

7 – LOW MOUNT 360°

- Recommended for walking motion detection from mounting heights between 8 ft (2.44 m) and 20 ft (6.10 m)
- Initial detection radius of walking motion equivalent to the mounting height (up to 15'). For mounting heights between 15' and 20', multiply the mounting height by .875 to determine the initial detection radius for walking motion (ex. 20' x .875 = 17.5' radius).
- Provides 12 ft (3.66 m) radial detection of small motion when mounted at 9 ft (2.74 m)

SIDE VIEW   **TOP VIEW**
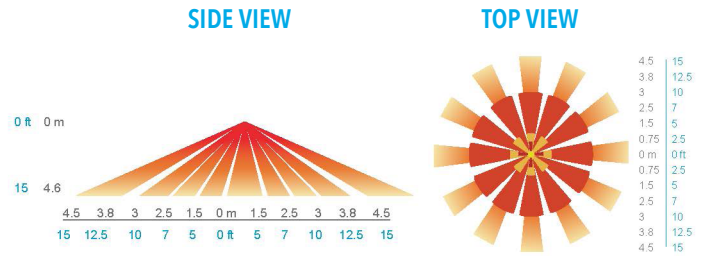
45 – HIGH MOUNT 360°

- Optimized full coverage pattern for 10 – 40 ft. (3.1 – 12 m)
- Reliable detection of large motion (e.g. pedestrian walking traffic) up to 30 ft. (9.1 m) mounting height
- Reliable detection of extra-large motion (e.g. forklift traffic) up to 40 ft. (12 m) mounting height
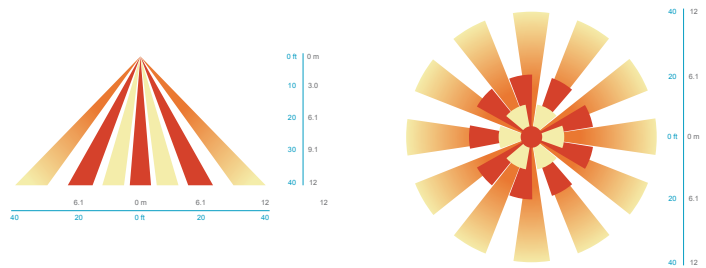
45A – HIGH MOUNT AISLEWAY

- Optimized bi directional coverage pattern for aisleways with 10 – 40 ft. (3.1 – 12 m) mounting heights
- 1.5x's mounting height equals approximate detection range
- Reliable detection of large motion (e.g. pedestrian walking traffic) up to 30 ft. (9.1 m) mounting height
- Reliable detection of extra-large motion (e.g. forklift traffic) up to 40 ft. (12 m) mounting height
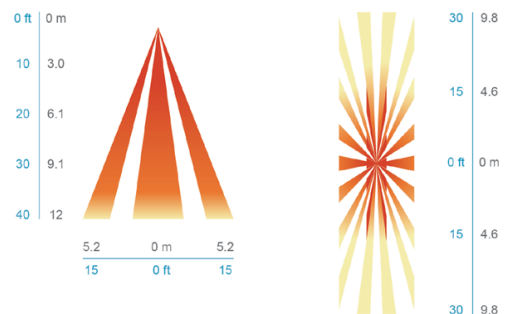
* Coverage pattern shown is derived from NEMA WD7 testing