

SPECIFICATIONS

PHYSICAL

SIZE: 4.55" Dia. (11.56 cm)

1.55" Deep (3.94 cm)

WEIGHT: 6 oz

MOUNTING:

Ceiling Tile / Sheetrock Surface

3.5" Octagon Box

Single Gang Handy Box

COLOR: Matte White

nLIGHT NETWORK CONNECTION:

2 RJ-45 Ports (via an included RJ-45 splitter)

WIRES / CABLES:

(1) CAT5e patch cable, 1ft (factory installed)

(2) 20 AWG wires (-AR option only)

ELECTRICAL

nLIGHT BUS POWER CONSUMPTION: ~3 mA

RELAY RATING (-AR option only):

1A @ 24 VAC/VDC (resistive only)

ENVIRONMENTAL & OTHER

OPERATING TEMP

Standard: 14° to 160° F (-10° to 71° C)

LT Option (PIR): -40° to 160° F (-40° to 71° C)

LT Option (PDT): -4° to 160° F (-20° to 71° C)

RELATIVE HUMIDITY

Standard: 20 to 75% non-condensing

LT Option: 20 to 90% non-condensing

SILICONE FREE, ROHS COMPLIANT

TITLE 24 SYSTEM COMPONENT

ASSEMBLED in U.S.A.

CEILING / SURFACE MOUNT • REAR RJ-45 PORT PASSIVE INFRARED (PIR) or DUAL TECH (PDT)



nCM 9 xx RJB
nCM PDT 9 xx RJB



nCM 10 xx RJB
nCM PDT 10 xx RJB



nCM 6 xx RJB

MODEL # OPTION SUFFIXES

- PDT = Dual Technology (Microphonics) Detection
- 6, 9, 10 = Lens/Coverage Pattern
- ADCX = Automatic Dimming Control
- AR = Low Voltage Aux. Relay
- 2P = Dual Time Delay
- LT = Low Temp / High Humidity

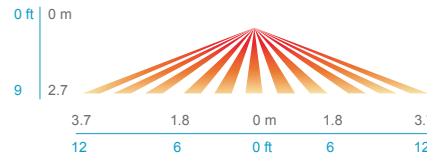
COVERAGE PATTERNS

SMALL MOTION 360° (Model # nCM 9/nCM PDT 9¹)

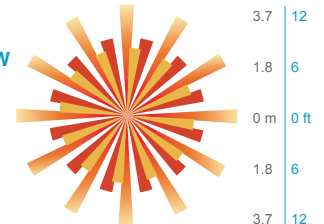


- Best choice for small motion (e.g. hand movements) detection
- 360° conical shaped pattern
- Provides 12 ft (3.66 m) radial coverage (~500 ft²) when mounted to standard 9 ft (2.74 m) ceiling
- 8 to 15 ft (2.44 to 4.57 m) mounting heights provide 10 to 20 ft (3.05 to 6.10 m) radial coverage

SIDE VIEW



TOP VIEW



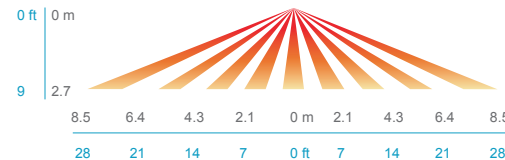
¹ Sensors with Microphonics™ provides overlapping detection of human activity over the complete PIR coverage area. Advanced filtering is also utilized to prevent non-occupant noises from keeping the lights on.

LARGE MOTION 360° (Model # nCM 10/nCM PDT 10¹)

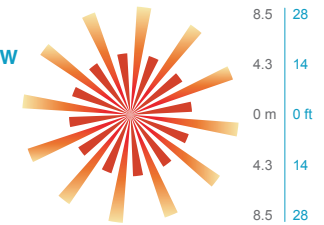


- Best choice for large motion detection (e.g. walking)
- 360° conical shaped pattern
- Provides ~24 ft (7.32 m) radial coverage (~2000 ft²) when mounted at 9 ft (2.74 m)
- 7 to 15 ft (2.13 to 4.57 m) mounting heights provide 16 to 36 ft (4.88 to 10.97 m) radial coverage
- Detection range improves when walking across beams compared to into beams

SIDE VIEW



TOP VIEW



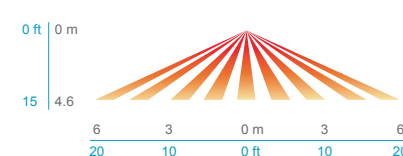
¹ Sensors with Microphonics™ provides overlapping detection of human activity over the complete PIR coverage area. Advanced filtering is also utilized to prevent non-occupant noises from keeping the lights on.

HIGH MOUNT 360° (Model # nCM 6)

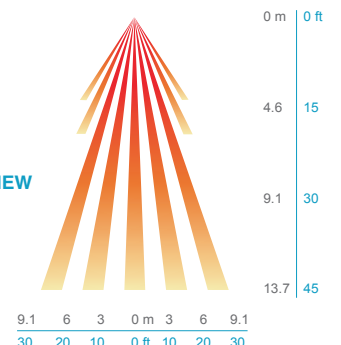


- Best choice for 15 to 45 ft (4.57 to 13.72 m) mounting heights
- 15 to 20 ft (4.57 to 6.10 m) radial coverage overlaps area lit by a typical high bay fixture
- Excellent detection of large motion (e.g. walking) up to 35 ft (10.76 m)
- Excellent detection of extra large motion (e.g. forklifts) up to a 45 ft (13.72 m)

LOW VIEW



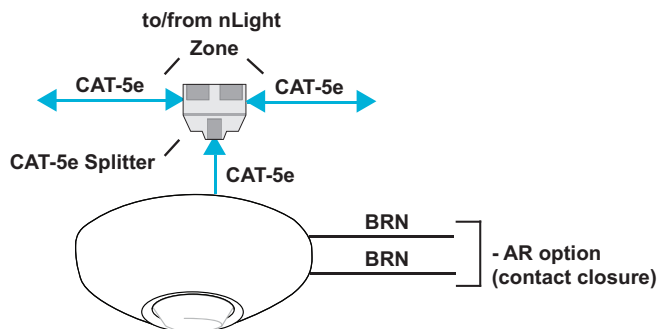
HIGH VIEW



INSTALLATION / WIRING

The following instructions are for mounting sensor directly to a ceiling tile or sheetrock surface. Sensor's mounting holes also align with standard round fixture or single gang handy box (screws not provided).

1. Using template included with unit, mark spots on ceiling tile/sheetrock for cable hole and mounting anchors/screws
2. Drill 1/2" hole through ceiling surface at location indicated on template
3. Insert provided anchors into ceiling surface at locations indicated on template
4. Remove provided RJ-45 splitter from sensor's attached CAT5e cable and thread cable (and low voltage wires if -AR option included) through hole from underside
5. Mount sensor to anchors using two screws provided
6. Reattach RJ45 splitter device (model **CAT5 Y**) above ceiling to cable from sensor (see diagram on right)
7. Interconnect CAT-5e cables to/from nLight zone to RJ45 splitter
8. Once power is received via CAT-5e connection, all devices in zone will automatically begin functioning together according to each device's defaults
9. Install decorative sensor lid by rotating clockwise
10. Refer to included instruction card for default settings and directions on push-button programming.



Note: T568B pin/pair assignment is recommended for all CAT-5e cables. Sensor power is provided via a CAT-5e connection to an nLight power pack/supply, nLight enabled digital luminaire, or nLight Bridge.

WARRANTY

5-year limited warranty. Full warranty terms located at:

www.acuitybrands.com/CustomerResources/Terms_and_conditions.aspx

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

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READ AND FOLLOW ALL SAFETY INSTRUCTIONS!

SAVE THESE INSTRUCTIONS AND DELIVER TO OWNER AFTER INSTALLATION

- To reduce the risk of death, personal injury or property damage from fire, electric shock, falling parts, cuts/abrasions, and other hazards please read all warnings and instructions included with and on the fixture box and all fixture labels.
- Before installing, servicing, or performing routine maintenance upon this equipment, follow these general precautions.
- Installation and service should be performed by a qualified licensed electrician.
- Maintenance should be performed by qualified person(s) familiar with the products' construction and operation and any hazards involved. Regular maintenance programs are recommended.
- **DO NOT INSTALL DAMAGED PRODUCT!** This product has been properly packed so that no parts should have been damaged during transit. Inspect to confirm. Any part damaged or broken during or after assembly should be replaced.

CAUTION: RISK OF PRODUCT DAMAGE

- ✓ Electrostatic Discharge (ESD): ESD can damage product(s). Personal grounding equipment should be worn during all installation or servicing of the unit.
- ✓ Do not touch individual electrical components, as this can cause ESD and affect product performance.
- ✓ Do not stretch or use cable sets that are too short or are of insufficient length.
- ✓ Do not tamper with contacts.
- ✓ Do not modify the product.
- ✓ Do not change or alter internal wiring or installation circuitry.
- ✓ Do not use product for anything other than its intended use.

WARNING - RISK OF ELECTRIC SHOCK

- ✓ Disconnect or turn off power before installation or servicing.
- ✓ Verify that supply voltage is correct by comparing it with the product information.
- ✓ Make all electrical and grounded connections in accordance with the National Electrical Code (NEC) and any applicable local code requirements.
- ✓ All wiring connections should be capped with UL approved recognized wire connectors.
- ✓ All unused connector openings must be capped.

CAUTION - RISK OF INJURY

- ✓ Wear gloves and safety glasses at all times when installing, servicing or performing maintenance.

WARNING - RISK OF BURN or FIRE

- ✓ Do not exceed maximum wattage, ratings, or published operation conditions of product.
- ✓ Do not overload.
- ✓ Follow all manufacturer's warnings, recommendations and restrictions to ensure proper operation of product.