

OVERVIEW

Classrooms are ideal applications for the nLight **nCM PDT 10 Series** Extended Range 360° occupancy sensor. When mounted at 9 ft (2.74 m), this sensor provides line of sight Passive Infrared (PIR) detection of walking type motions up to 28 ft (8.53 m) in all directions. Additionally, the **nCM PDT 10** provides overlapping Microphonics™ technology to detect smaller motions and occupant movements that occur behind obstructions. This is important for classrooms filled with obstructions like shelving, hanging projects, or lab benches.

Besides classrooms, the **nCM PDT 10** is perfect for T-shaped intersections in corridors or other areas where wall mounting a sensor is not practical. Spaces with low ceiling heights are also best covered by the **nCM PDT 10**. For example, when mounted at the 7 ft (2.13 m) ceiling height of many distribution center pick aisles, the **nCM PDT 10** provides a 32 ft (9.75 m) diameter pattern of coverage. Additionally, the **nCM PDT 10** may be used in combination with other nLight sensors to customize coverage for very large or irregularly shaped spaces.

FEATURES

- Patented Dual Technology with PIR/Microphonics Detection
- 360° Coverage
- Communicates w/ nLight Network
- Integrated On/Off Photocell
- Remotely Configurable/Upgradeable
- Push-Button Programmable

SPECIFICATIONS

Size:	4.55" Dia. (11.56 cm) 1.55" Deep (3.94 cm)
Weight:	6 oz
Mounting:	Ceiling Tile Surface 3.5" Octagon Box Single Gang Handy Box
Color:	White
nLight Network Ports:	2 RJ-45
Power Consumption:	< 3 mA
Dimming Load:	(ADC version): Sinks < 20mA: ~40 ballasts @ .5mA each
RoHS compliant	
Title 24 system component	



nLight®

nCM PDT 10
Extended Range 360° Sensor



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.



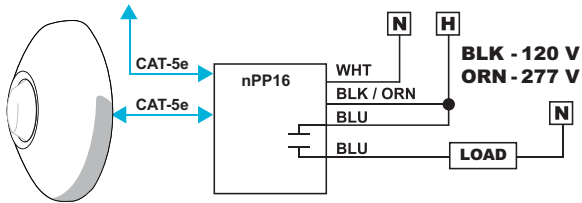
ORDERING INFORMATION

nCM PDT 10		Example: nCM PDT 10 ADCX LT	
Series	Daylighting Control	Temp/humidity	
nCM PDT 10 Extended Range 360° Sensor	[blank] None ADCX Autodimming control (no wires) ADC Autodimming control (with 0-10VDC wires)	[blank] Standard LT Low temp	

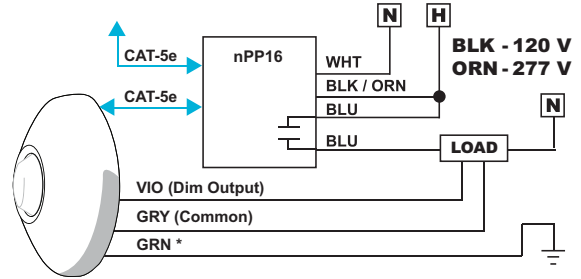
WIRING (DO NOT WIRE HOT)

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

nCM PDT 10 & nCM 10 ADCX



nCM PDT 10 ADC



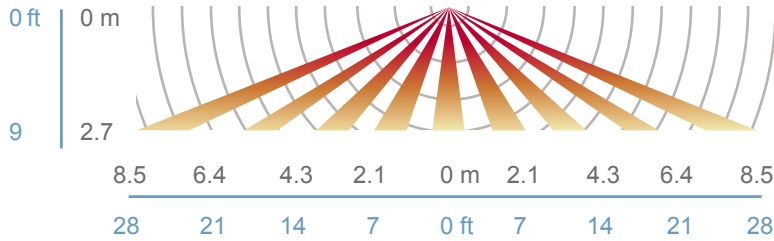
*Note: A green wire is available for an optional connection to an approved ground. This wire is isolated from the class 2 circuitry of the sensor. Connection will provide improved network protection in case of accidental landing of line voltage to VIOLET or GRAY dimming wires. If an approved ground is not available the green wire should be capped.

COVERAGE PATTERN

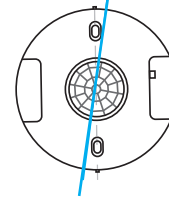
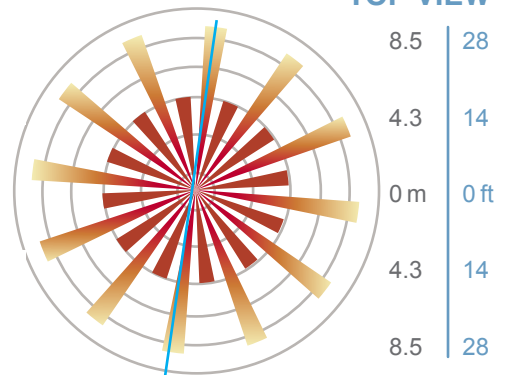
EXTENDED RANGE 360° LENS WITH MICROPHONICS™

- Best choice for large motion (e.g. walking) detection
- 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
- 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.

SIDE VIEW



TOP VIEW



Note: Sensor's screw axis is offset 7.5° from a long detection segment