

OVERVIEW

The nES 7 is a small passive infrared occupancy sensor designed to be easily embedded into luminaires. This sensor provides excellent line of sight 360° PIR detection of small motion and walking motion. The nES 7 is ideal for small rooms without obstructions or areas with primarily walking motion (e.g. corridors, library stacks). Additionally, an optional integrated photocell enables daylight harvesting control as well. Typically one or more nES 7 sensors are paired with an nLight controller within an nLight enabled luminaire.

For rooms like classrooms and private offices or any space with obstructions, the nES PDT 7 dual technology sensor is recommended.

FEATURES

- PIR Occupancy Detection
- 360° Coverage
- Lens Rotates 15° – Enables Adjustment After Installation
- Communication w/ nLight Network
- Remotely Configurable/Upgradeable
- Push-Button Programmable
- Adjustable Time Delay
- Non-Volatile Settings Memory

Warranty

Five-year limited warranty. Complete warranty terms located at:

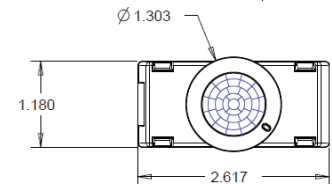
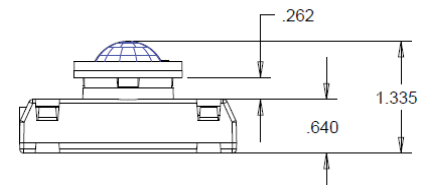
www.acuitybrands.com/support/customer-support/terms-and-conditions

Note: Actual performance may differ as a result of end-user environment and application.

Specifications subject to change without notice.



nES 7
nES PDT 7



This item is an A+ capable component, which has been designed and tested to provide out-of-the-box luminaire compatibility with simple commissioning, when included as part of an A+ Certified™ Solution.

To learn more about A+, visit www.acuitybrands.com/aplus.



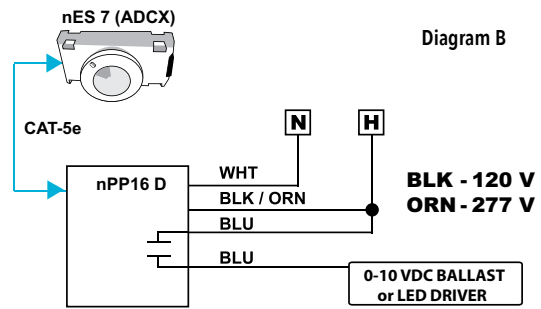
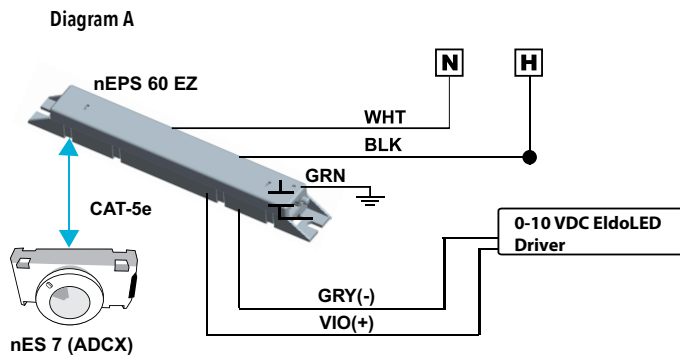
ORDERING INFORMATION

Example: nES PDT 7 ADCX

Series		Daylighting Control	
nES 7	360° PIR Sensor	[blank]	None
nES PDT 7	360° Dual Technology Sensor	ADCX	Integrated Dimming Control

WIRING (DO NOT WIRE HOT)

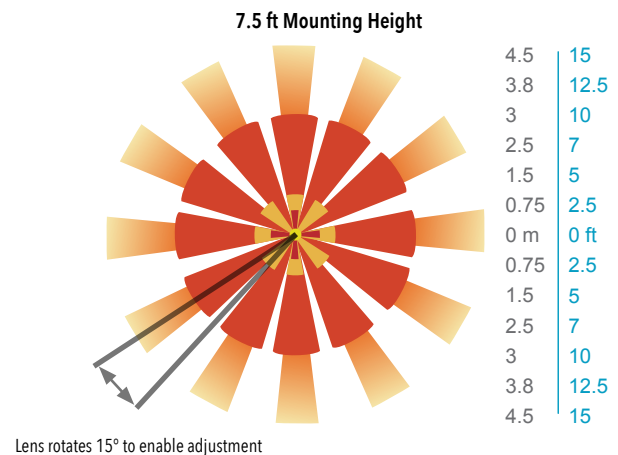
Power to the sensor is provided by the CAT-5e connection to a linear power pack within the fixture (diagram A) or another nLight power pack/supply (diagram B) within its zone. T568B pin/pair assignment is recommended for all CAT-5e cables.



COVERAGE PATTERN

MICRO 360° Lens

- At the 7.5 ft (2.29 m) hanging height of a typical pendant mount fixture the sensor provides 10 ft (3.05 m) radial detection of small motion. At a 9 ft (2.74 m) hanging height the radius is 12 ft (3.66 m) for small motion.
- Adequate for walking motion detection from mounting heights between 7.5 ft (2.29 m) and 20 ft (6.10 m).
- Initial detection will occur earlier when walking across sensor's field of view than when walking directly at sensor.
- Initial detection of walking motion into long coverage segment will occur at distances of 2x the mounting height up to 15 ft (4.57 m) and 1.75x up to 20 ft (6.10 m). Lens assembly rotates 15° to enable adjustment in order to line up long segments.



INSTALLATION

- If not pre-installed, locate sensor body so that lens throat protrudes through 1.125" hole in luminaire, facing down.
- Align lens assembly legs with holes in sensor body and snap together (max material thickness 0.25"). Foam spacer pads are provided to ensure snug fit. Assembly rotates 15° to enable coverage pattern adjustment after installation.
- To unsnap lens assembly, pry up under lip on sensor short sides.
- Interconnect unit (via RJ-45 port) with other nLight devices in lighting zone using CAT-5e cable.
- Once power is received via CAT-5e connection, all devices in zone will automatically begin functioning together according to each device's defaults.

Diagram 1. Installation example

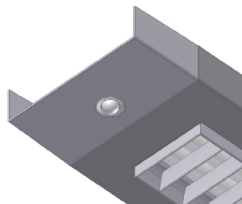
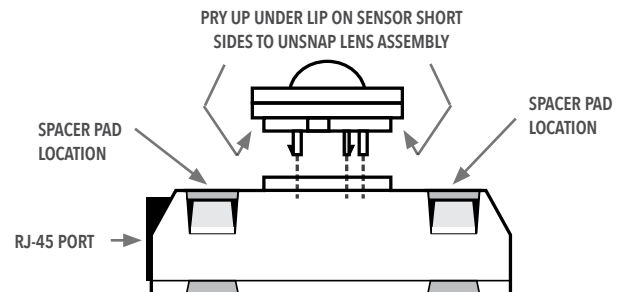


Diagram 2. Assembly detail



SPECIFICATIONS

Electrical	Input Ratings	15-24VDC, 3mA, Class 2 (nLight network power)
	Standards/ Ratings	Energy Management Equipment, UL916 (E167435)
Mechanical	Dimensions	2.62H" x 1.18W" x 1.34D" (67mm x 30mm x 34mm)
	Mounting	Fixture Integrated Required hole size of 1.125" and material thickness of 0.25" max
	Color	White
	Connection Type	RJ-45 nLight Network Port (1)
Environmental	Warrantied Operating Temperature	-4°F to 140°F (-20°C to 60°C)
	Relative Humidity	Up to 90%, Non-Condensing
	Standards/ Ratings	RoHS
General	Standards/ Ratings	System Component to aid in compliance with Title 24, ASHRAE 90.1, IECC